

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534324

Luminaire Tested: **GALN-SA9D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58825 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

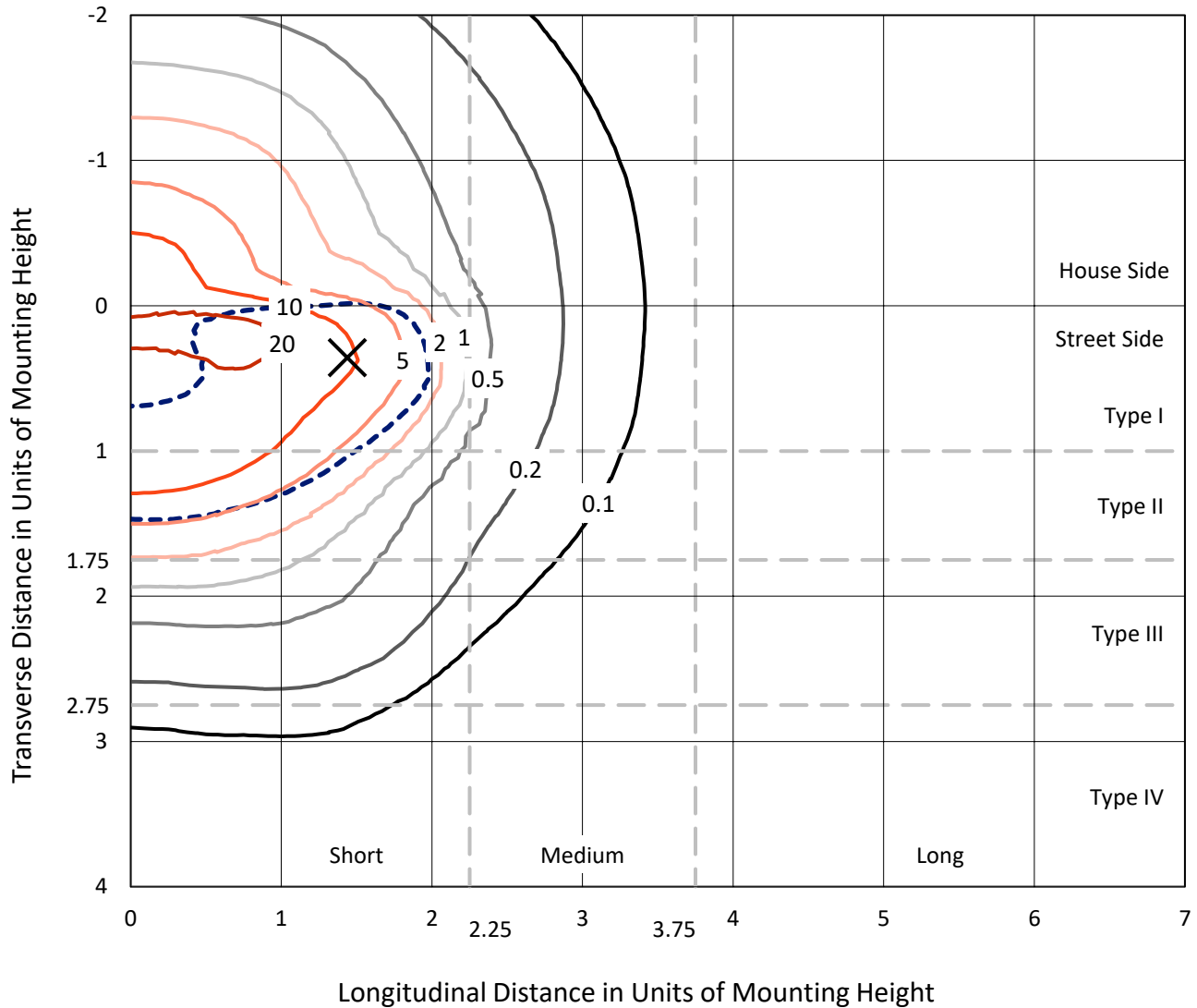
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

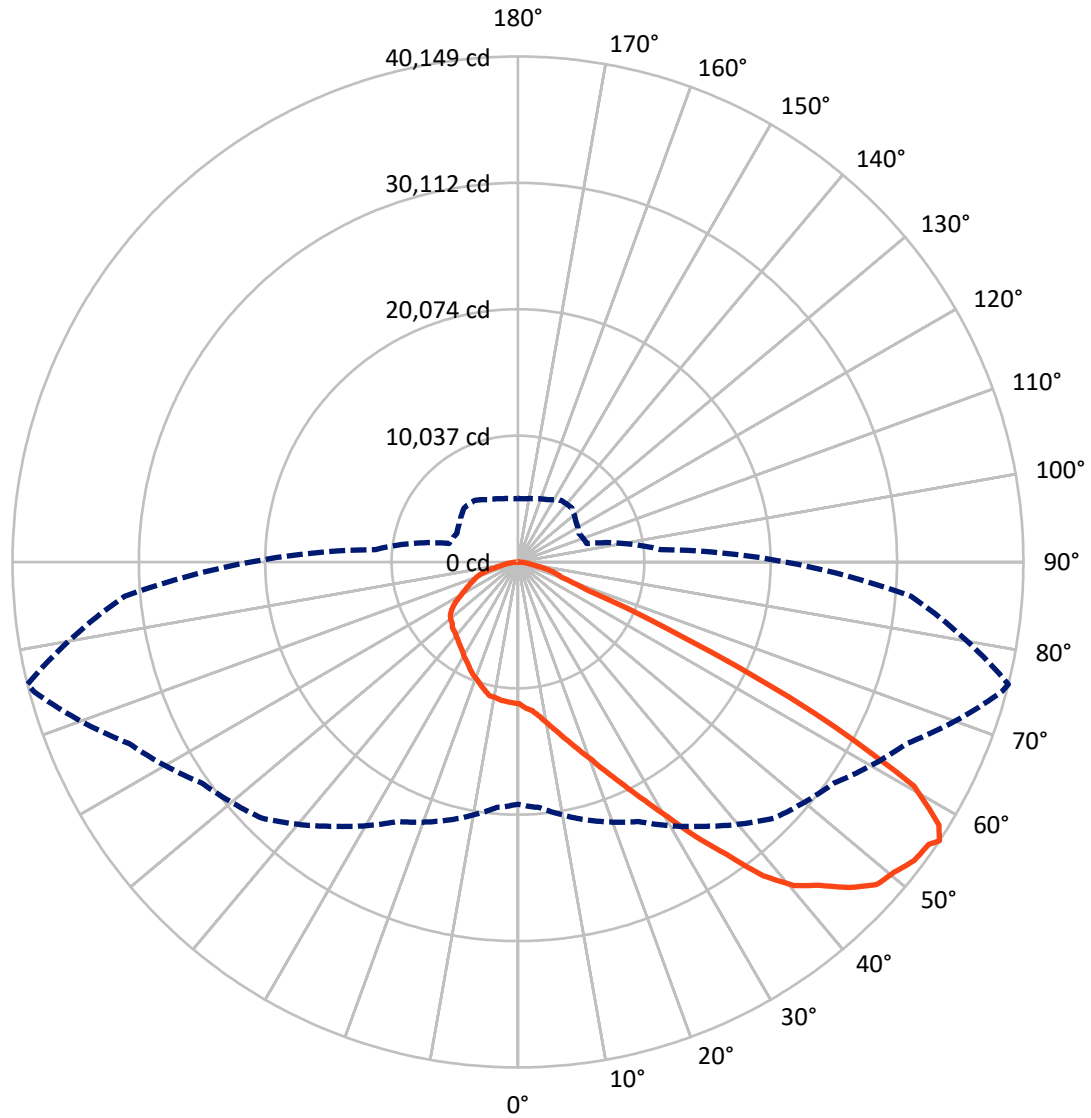
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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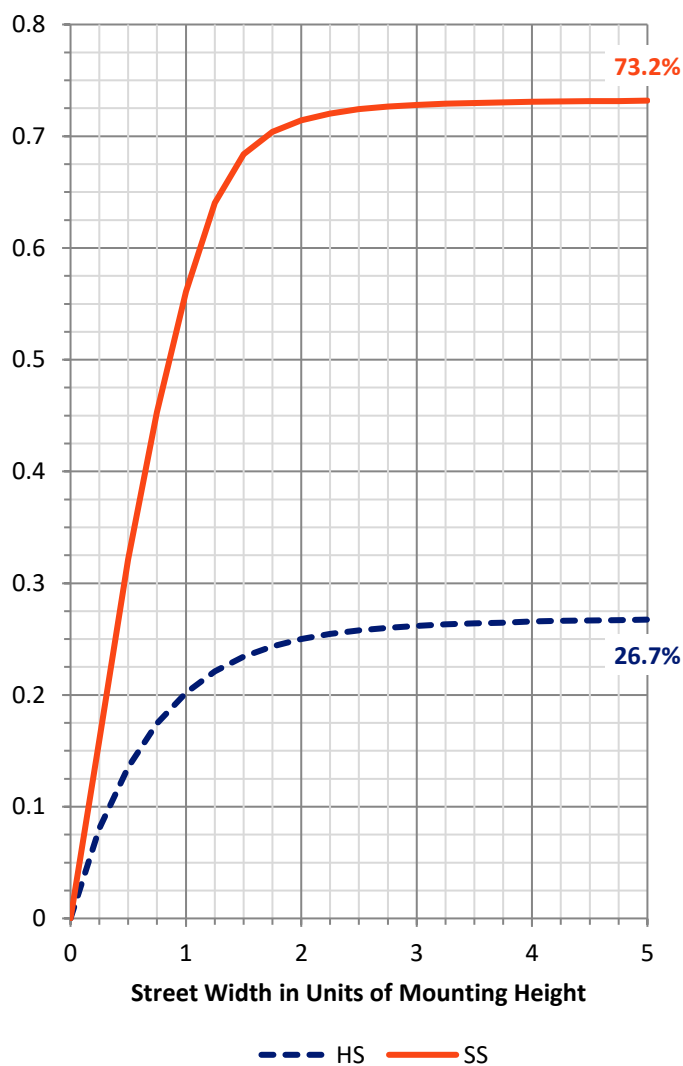
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15816.3	0.0	15816.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	43008.7	0.0	43008.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	58825.0	0.0	58825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1116.2	1.9
10°-20°	3506.3	6.0
20°-30°	6132.1	10.4
30°-40°	9601.1	16.3
40°-50°	13966.9	23.7
50°-60°	15350.5	26.1
60°-70°	6851.8	11.6
70°-80°	1979.1	3.4
80°-90°	321.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	58825.0	100.0
0°-180°	58825.0	100.0

Coefficient of Utilization



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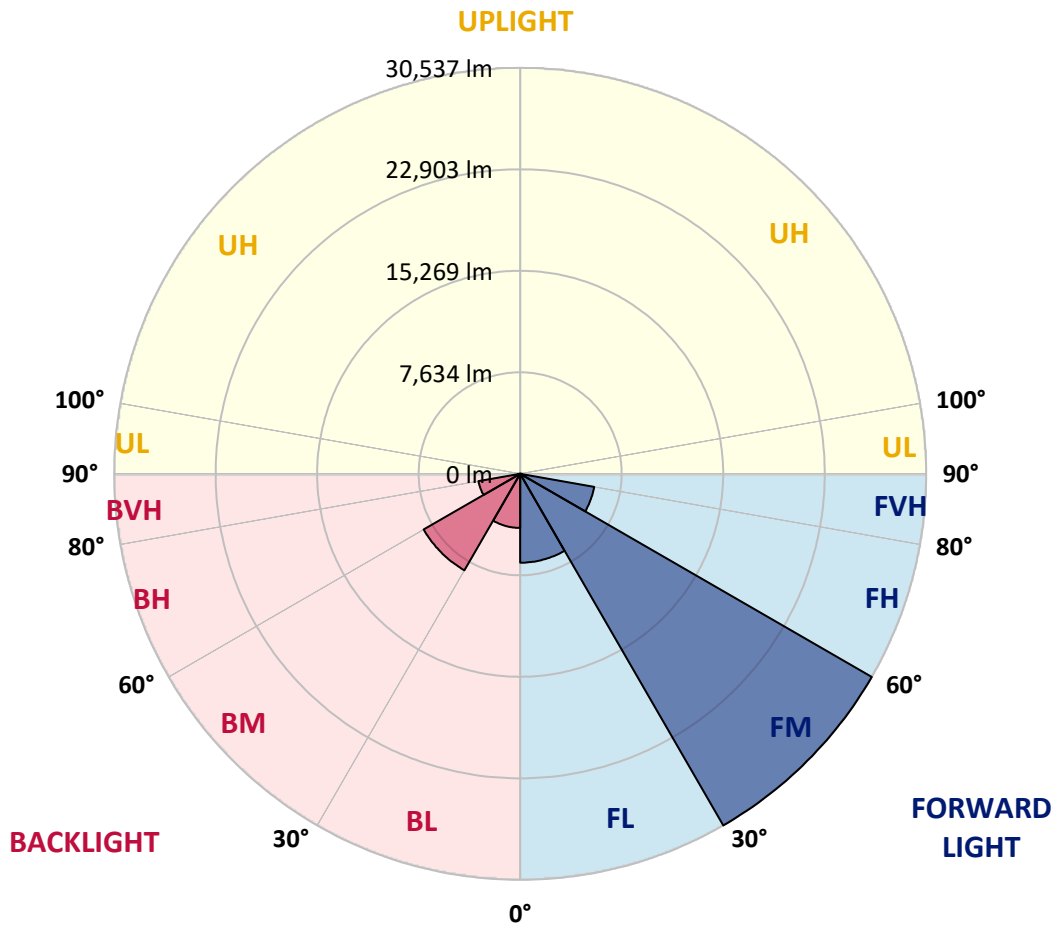
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6684.8	11.4			
FM (30°-60°)	30537.1	51.9			
FH (60°-80°)	5648.6	9.6			G3/7500
FVH (80°-90°)	138.2	0.2			G2/225
BL (0°-30°)	4069.8	6.9	B4/5000		
BM (30°-60°)	8381.3	14.2	B4/8500		
BH (60°-80°)	3182.3	5.4	B4/5000		G4/5000
BVH (80°-90°)	182.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4
2.5°	12399.3	12201.0	12185.7	12132.4	12162.9	12025.6	11880.7	11690.1	11491.8	11613.8	11324.0
5°	13268.6	13001.7	13108.4	12925.4	12948.3	12765.3	12467.9	12246.7	12002.7	11857.8	11651.9
7.5°	13573.6	13596.5	13672.7	13642.2	13489.7	13489.7	13291.4	12902.5	12475.5	12391.6	12048.5
10°	13985.4	13993.0	13909.1	13932.0	14145.5	14046.4	13871.0	13703.2	13154.2	13055.1	12445.0
12.5°	14130.3	13993.0	14130.3	14252.3	14503.9	14641.2	14603.1	14481.0	13893.9	13825.2	12933.0
15°	14153.1	14069.3	14183.6	14458.2	14679.3	15258.9	15548.6	15464.7	14686.9	14694.6	13482.1
17.5°	14046.4	14160.8	14206.5	14442.9	14953.8	15495.3	16334.1	16448.5	15807.9	15708.8	14176.0
20°	14191.3	14107.4	14168.4	14381.9	15060.6	15907.0	17005.1	17760.1	16860.2	16791.6	14892.8
22.5°	14747.9	14633.6	14618.3	14755.6	15243.6	16120.6	17714.3	19071.7	18141.3	18179.5	15785.0
25°	15182.6	15243.6	15190.2	15182.6	15487.6	16440.8	18652.3	20634.9	19880.0	19658.8	16837.4
27.5°	15929.9	16074.8	15968.0	16112.9	16044.3	16921.2	19323.3	22365.9	21755.9	21458.5	17790.6
30°	16967.0	17043.3	16944.1	16944.1	16738.2	17592.3	19933.4	24173.2	23921.6	23517.4	18911.5
32.5°	18332.0	18446.4	18248.1	18133.7	18103.2	18591.3	21031.4	25957.6	26384.6	26041.5	20398.5
35°	20139.3	20070.6	19834.2	19727.5	19315.7	20124.0	22663.3	28008.9	29129.9	28519.8	22198.2
37.5°	21733.0	21626.2	21611.0	21016.2	21115.3	21778.8	24051.2	29564.5	31791.2	31615.8	24096.9
40°	23220.0	23319.1	23479.3	23143.7	22991.2	23723.3	25667.8	30754.1	33857.7	33789.1	25561.1
42.5°	24813.8	24722.2	25004.4	24722.2	24493.5	25530.6	27421.7	31577.7	35672.6	35108.3	27093.8
45°	27124.3	26834.5	26933.7	26956.6	26788.8	27170.1	28146.1	32172.5	36946.1	36885.1	28214.8
47.5°	29053.6	29061.2	28893.5	28763.8	28252.9	28634.2	28954.5	32546.1	38410.2	38311.1	28649.4
50°	29770.4	29671.3	30159.3	30441.5	30472.0	29694.1	29587.4	32752.0	39180.4	38745.8	29084.1
52.5°	27192.9	27284.5	28054.6	29732.3	30700.7	30784.6	30327.1	33179.1	39493.1	39401.6	29434.9
55°	21885.5	22327.8	23593.7	25530.6	27825.9	30349.9	31127.8	33621.3	39660.8	39584.6	30990.5
56°	19239.4	19582.6	21229.7	22747.2	25629.7	28771.4	30624.5	34094.1	39790.5	40148.9	31356.5
57.5°	15487.6	15884.2	17066.1	18789.5	22190.5	25767.0	29236.6	33514.6	39287.2	39424.4	31623.4
60°	9684.5	9722.7	11141.0	12277.2	14671.7	18164.2	22312.6	29160.4	36358.9	36160.7	28405.4
62.5°	6352.1	6359.8	7648.5	8578.8	9669.3	10470.0	13131.3	19338.6	26826.9	26476.1	20223.1
65°	4461.0	4560.1	5559.1	6802.0	7244.3	6824.9	6741.0	10195.4	14984.3	14481.0	10866.5
67.5°	3263.8	3271.4	4156.0	5490.4	6131.0	5193.0	4217.0	4979.5	5932.7	5917.5	5032.9
70°	2158.0	2249.6	2928.2	4102.6	4834.6	4171.2	3446.8	3561.2	3774.7	3774.7	3744.2
72.5°	1258.2	1342.1	1792.0	2600.3	2714.7	2608.0	2730.0	3050.2	3187.5	3179.9	3141.8
75°	716.8	754.9	854.1	1082.8	1349.7	1593.8	2005.5	2310.6	2447.8	2531.7	2432.6
77.5°	419.4	442.3	503.3	617.7	701.6	861.7	1090.5	1304.0	1487.0	1464.1	1479.4
80°	221.1	221.1	282.1	366.0	488.0	610.0	724.4	846.4	945.6	968.5	991.3
82.5°	129.6	137.3	183.0	266.9	350.8	434.7	556.7	640.6	732.1	739.7	754.9
85°	68.6	76.3	114.4	175.4	236.4	266.9	274.5	259.3	282.1	266.9	305.0
87.5°	22.9	22.9	38.1	30.5	30.5	38.1	45.8	45.8	61.0	61.0	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4	11255.4
2.5°	11316.4	11316.4	11186.8	10942.8	10904.6	10805.5	10714.0	10706.4	10637.7	10576.7	10546.2
5°	11529.9	11293.5	11102.9	10881.8	10622.5	10500.5	10363.2	10210.7	10149.7	10210.7	10203.1
7.5°	11774.0	11575.7	11003.8	10592.0	10294.6	10172.6	10020.1	9859.9	9875.2	9875.2	9768.4
10°	12010.3	11743.4	10828.4	10302.2	9867.5	9776.0	9692.2	9753.2	9829.4	9844.7	9776.0
12.5°	12406.9	11804.5	10744.5	10012.4	9737.9	9539.6	9593.0	9760.8	9920.9	9875.2	9928.6
15°	12704.3	11857.8	10363.2	9715.0	9371.9	9463.4	9654.0	9768.4	10035.3	10004.8	10058.2
17.5°	12994.0	11888.3	9989.6	9318.5	9173.6	9425.3	9570.1	9898.0	9981.9	10164.9	10233.6
20°	13588.8	11949.3	9608.3	9074.5	9028.7	9318.5	9570.1	9722.7	9905.7	10065.8	10065.8
22.5°	13893.9	11918.8	9356.6	8754.2	8899.1	9082.1	9310.9	9570.1	9570.1	9722.7	9730.3
25°	14275.2	11796.8	8960.1	8601.7	8708.5	8883.8	9143.1	9051.6	9150.7	9150.7	9272.7
27.5°	14709.8	11537.6	8616.9	8327.2	8540.7	8731.3	8769.5	8708.5	8594.1	8578.8	8533.1
30°	15060.6	11217.3	8365.3	8235.7	8411.1	8517.8	8395.8	8266.2	8067.9	8052.6	7945.9
32.5°	15541.0	10820.7	8052.6	8006.9	8205.2	8212.8	8174.7	7976.4	7686.6	7564.6	7442.6
35°	16349.3	10592.0	7816.3	7884.9	7945.9	7923.0	7854.4	7640.9	7351.1	7297.7	7252.0
37.5°	16944.1	10424.2	7572.2	7656.1	7709.5	7740.0	7534.1	7297.7	7305.3	7198.6	7168.1
40°	17615.2	10317.5	7374.0	7412.1	7419.7	7518.9	7267.2	7152.8	7206.2	7137.6	7183.3
42.5°	18476.9	10348.0	7168.1	7137.6	7282.5	7244.3	7122.3	6969.8	7000.3	6794.4	6824.9
45°	18934.4	10553.9	7046.1	6908.8	7068.9	7061.3	6901.2	6756.3	6573.3	6176.7	6192.0
47.5°	19239.4	10607.2	6756.3	6664.8	6832.6	6931.7	6748.7	6413.1	6153.9	5871.7	5803.1
50°	19552.1	10706.4	6619.0	6428.4	6497.0	6733.4	6504.6	6184.4	5932.7	5681.1	5719.2
52.5°	19826.6	10897.0	6352.1	6070.0	6192.0	6451.3	6329.3	5940.4	5665.8	5459.9	5398.9
55°	21046.7	11324.0	5902.2	5536.2	5826.0	6153.9	6085.2	5612.5	5315.1	5208.3	5193.0
56°	21237.3	11339.3	5665.8	5353.2	5620.1	6054.7	5970.9	5467.6	5200.7	5032.9	5040.5
57.5°	21267.8	11156.3	5330.3	5185.4	5414.2	5909.9	5803.1	5353.2	4987.2	4834.6	4788.9
60°	18713.3	8708.5	4910.9	4819.4	5086.3	5467.6	5429.4	5040.5	4628.7	4453.4	4537.2
62.5°	12757.7	6382.6	4583.0	4567.7	4705.0	5078.7	4979.5	4628.7	4285.6	4171.2	4117.8
65°	7427.3	4842.3	4262.7	4201.7	4316.1	4514.4	4583.0	4217.0	3858.6	3782.3	3759.4
67.5°	4384.7	4003.4	3850.9	3751.8	3713.7	3835.7	3889.1	3675.5	3317.1	3210.4	3301.9
70°	3667.9	3561.2	3568.8	3401.0	3309.5	3225.6	3179.9	2989.2	2691.8	2554.6	2516.5
72.5°	3164.6	3118.9	3088.4	2935.9	2852.0	2661.3	2463.1	2272.4	2051.3	1936.9	1944.5
75°	2417.3	2402.1	2417.3	2341.1	2196.2	2043.7	1860.7	1616.6	1448.9	1304.0	1334.5
77.5°	1441.2	1487.0	1509.9	1479.4	1418.4	1281.1	1166.7	1006.6	846.4	732.1	716.8
80°	991.3	1029.5	1067.6	1029.5	968.5	869.3	747.3	625.3	510.9	449.9	434.7
82.5°	754.9	793.1	815.9	777.8	701.6	594.8	510.9	427.0	335.5	274.5	259.3
85°	274.5	312.7	305.0	366.0	396.5	381.3	327.9	251.6	190.6	137.3	129.6
87.5°	76.3	68.6	76.3	76.3	76.3	68.6	61.0	61.0	61.0	38.1	30.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)