

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: P647620

Luminaire Tested: **GALN-SA8D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36564.5 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

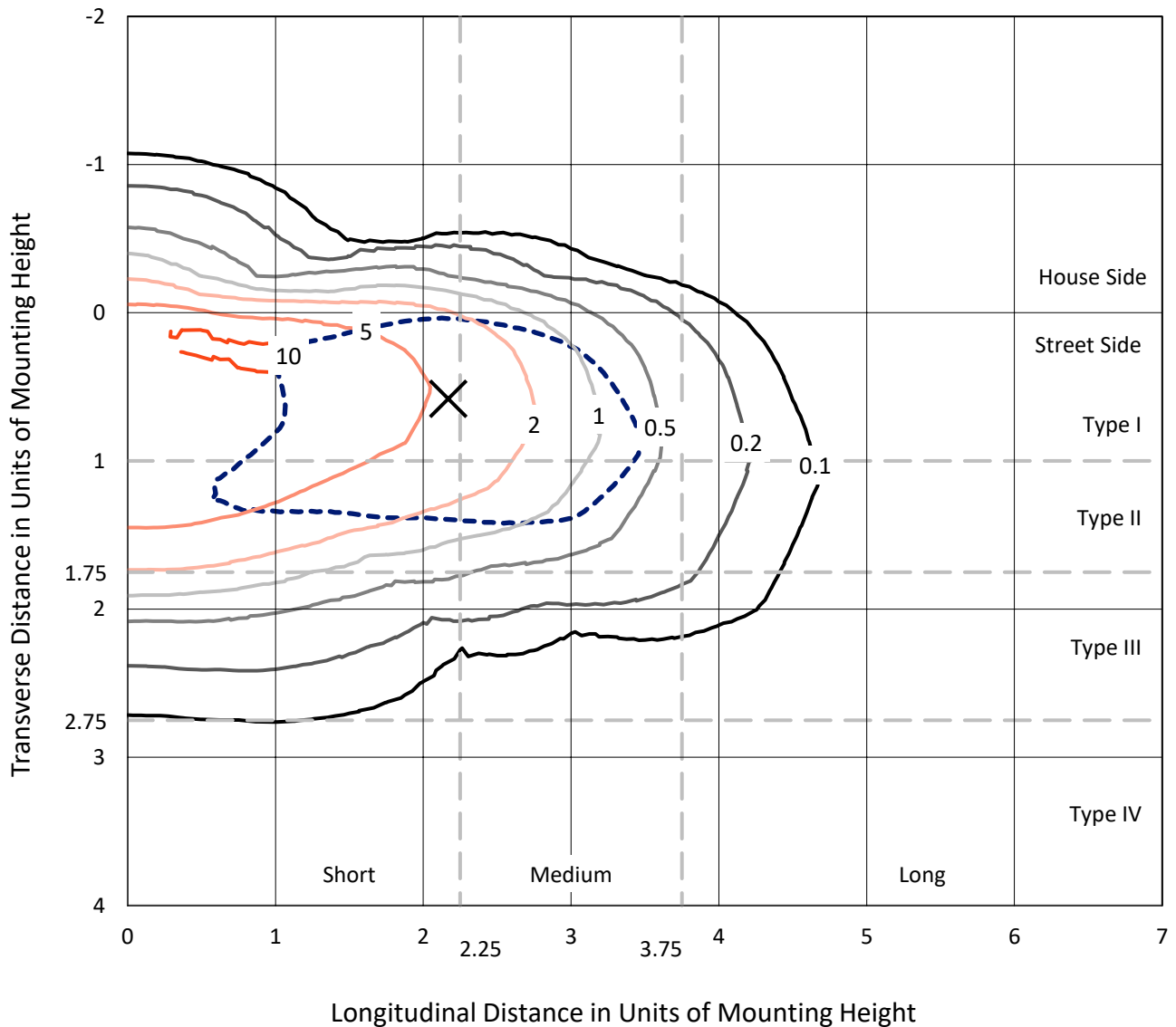
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

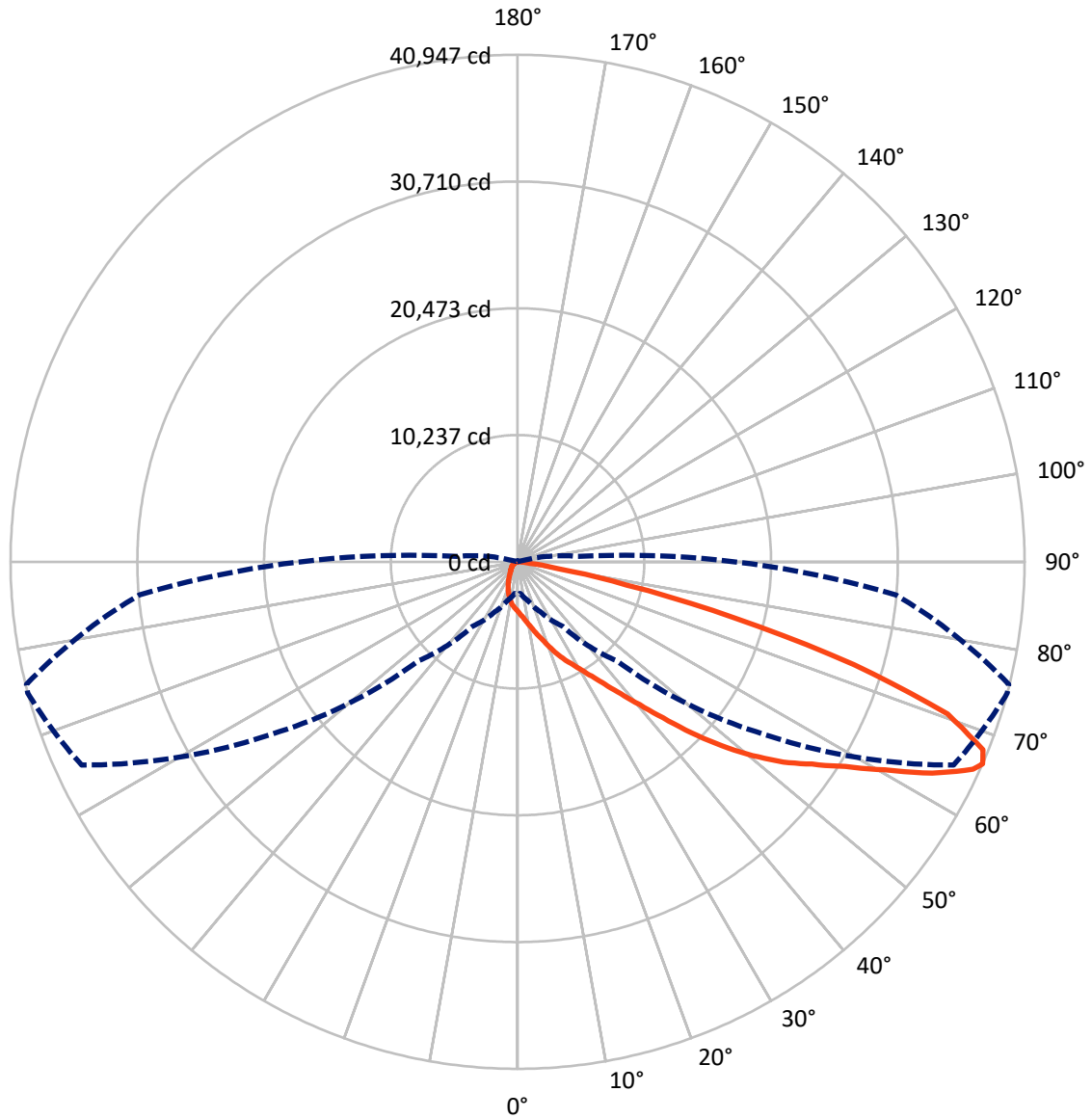
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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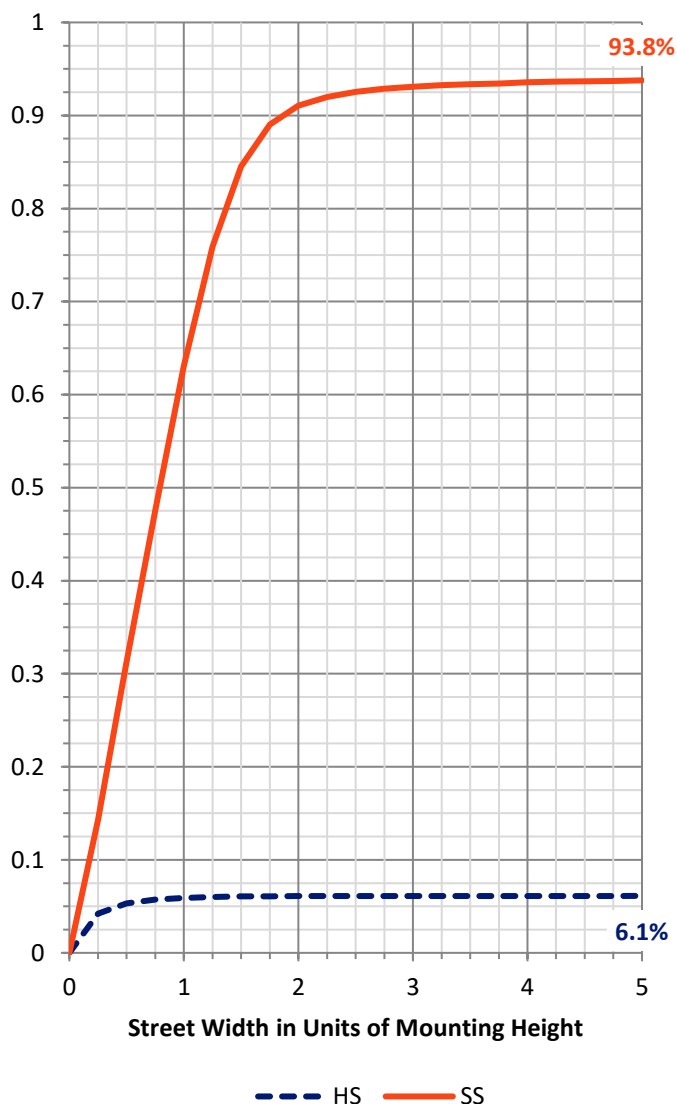
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2257.3	0.0	2257.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	34307.2	0.0	34307.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	36564.5	0.0	36564.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	1.1
10°-20°	1135.1	3.1
20°-30°	1960.0	5.4
30°-40°	3535.5	9.7
40°-50°	6386.9	17.5
50°-60°	9957.3	27.2
60°-70°	9459.0	25.9
70°-80°	3545.0	9.7
80°-90°	200.0	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°	36564.5	100.0
0°-180°	36564.5	100.0

Coefficient of Utilization



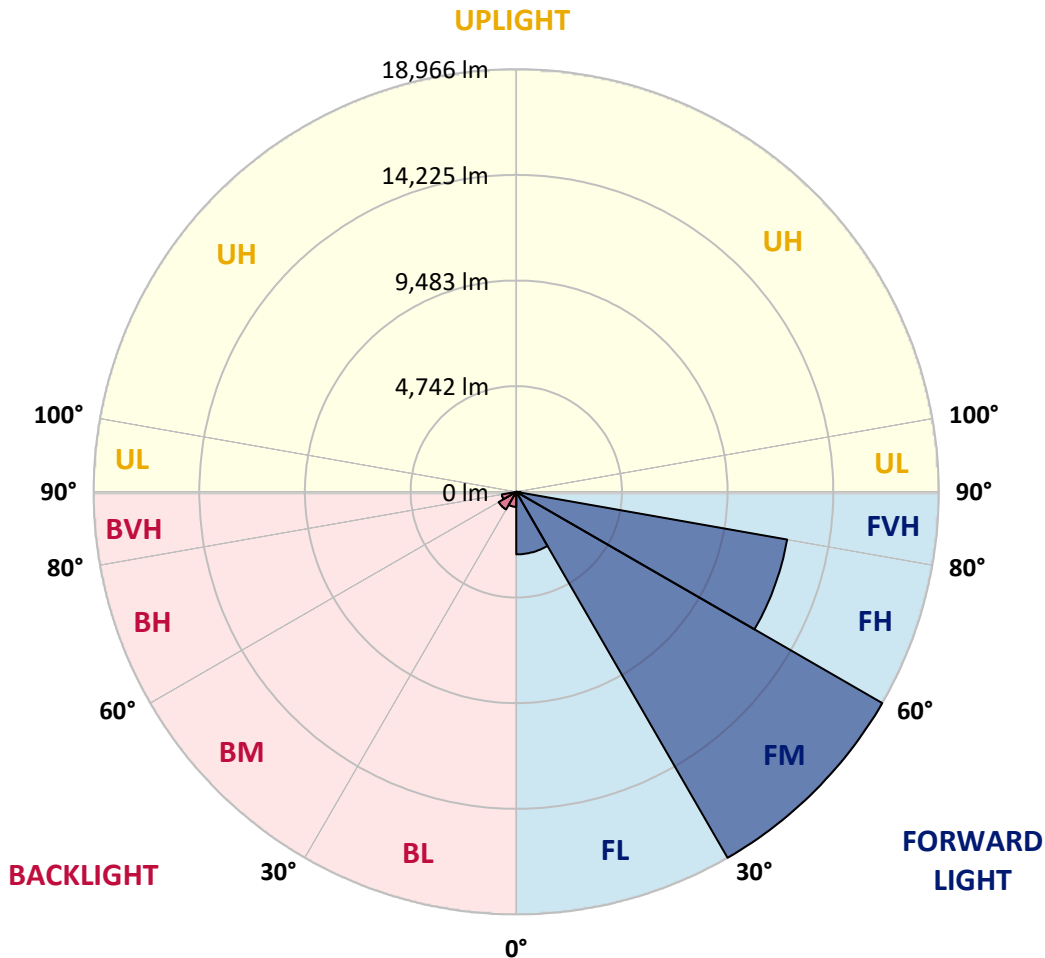
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.6	7.7			
FM (30°-60°)	18966.0	51.9			
FH (60°-80°)	12344.9	33.8			G5
FVH (80°-90°)	189.7	0.5			G2/225
BL (0°-30°)	674.1	1.8	B2/1000		
BM (30°-60°)	913.7	2.5	B1/1000		
BH (60°-80°)	659.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7
2.5°	4777.3	4717.9	4736.8	4709.7	4647.6	4555.7	4474.5	4358.3	4242.1	4223.1	4093.3
5°	5407.3	5391.0	5369.4	5291.0	5247.7	5107.2	4939.6	4739.5	4498.9	4455.6	4220.4
7.5°	5837.2	5829.0	5839.8	5799.3	5761.5	5634.4	5455.9	5182.9	4809.8	4785.5	4393.4
10°	5977.7	5999.4	6040.0	6104.8	6164.3	6123.8	5988.5	5647.9	5212.7	5142.4	4590.8
12.5°	5896.6	5921.0	6018.3	6191.3	6383.3	6494.1	6440.1	6191.3	5639.8	5583.0	4812.5
15°	5688.5	5718.2	5856.1	6123.8	6467.1	6780.8	6915.9	6737.5	6137.3	6045.4	5080.2
17.5°	5380.2	5423.5	5620.8	5975.1	6445.5	6986.2	7367.4	7308.0	6667.2	6580.6	5372.2
20°	5147.8	5180.2	5347.8	5753.3	6353.6	7099.8	7797.3	7964.9	7321.4	7172.7	5715.5
22.5°	5301.8	5312.7	5369.4	5612.8	6188.7	7129.5	8175.9	8648.9	8016.3	7883.9	6072.4
25°	6056.2	5948.1	5891.2	5837.2	6153.5	7102.5	8519.2	9362.7	8708.4	8567.8	6426.6
27.5°	7245.8	7197.1	6910.5	6526.6	6453.6	7137.6	8746.3	10038.6	9360.1	9208.6	6772.6
30°	8540.8	8457.0	8281.2	7718.9	7153.9	7386.4	8911.2	10695.6	10130.5	9930.5	7089.0
32.5°	9730.4	9784.5	9522.2	8943.7	8289.4	7916.3	9124.8	11412.1	11014.6	10765.9	7456.7
35°	11117.4	11225.6	10822.7	10268.4	9503.3	8873.3	9541.2	12220.5	12136.7	11823.1	8024.4
37.5°	12526.0	12590.9	12344.9	11566.2	10876.7	10090.0	10325.3	13218.1	13518.3	13250.6	8703.0
40°	13710.2	13799.4	13618.2	12926.2	12190.8	11498.6	11463.4	14305.0	15162.0	14886.2	9714.2
42.5°	14615.9	14683.5	14688.9	14199.5	13537.1	13223.5	12915.4	15691.9	17222.2	16903.2	10887.6
45°	15759.5	15856.9	15800.1	15467.5	14972.8	14916.0	14756.5	17368.2	19688.0	19285.1	12409.8
47.5°	17527.8	17592.6	17452.1	17060.0	16557.2	16646.3	16551.8	19247.2	22202.4	21856.3	13985.9
50°	18755.2	18863.3	19063.4	19220.2	18855.3	18525.4	18244.2	21001.9	24589.6	24278.7	15597.4
52.5°	18741.7	18920.1	19552.8	20342.3	21139.8	21039.8	20231.4	22940.4	26868.8	26484.9	17111.4
55°	17479.1	17825.2	18755.2	20155.7	22364.6	23464.9	23097.2	25184.5	28837.1	28577.5	18866.1
57.5°	14872.8	15083.6	16376.0	18333.4	21680.6	24605.9	26417.3	28226.1	31197.4	31075.7	21591.3
60°	10003.5	10098.1	11760.9	14180.6	18457.8	23467.7	28850.6	31905.8	34103.8	34044.3	24773.5
62.5°	5731.7	5772.3	6978.1	9019.4	13134.3	19888.0	29056.1	36445.1	37588.8	37621.3	28455.9
65°	3084.9	3106.5	4079.8	5293.7	7992.0	14175.2	26128.0	38932.5	40406.0	40468.2	30737.8
66°	2663.1	2560.3	3247.1	4512.4	6359.0	11282.3	24276.1	38843.3	40946.8	40879.1	30656.6
67.5°	2025.0	2116.9	2592.8	3468.8	4712.5	8021.8	20042.1	37115.7	40535.8	40324.9	29410.3
70°	1449.2	1487.0	1846.6	2473.8	3209.2	4401.6	12807.1	30826.9	36842.6	36558.7	25622.4
72.5°	935.5	976.0	1308.5	1789.8	2319.7	2403.6	7170.1	22272.7	28404.5	28363.9	19295.9
75°	667.8	705.6	865.1	1281.5	1743.8	1487.0	3452.6	15010.7	18057.6	17936.0	11936.6
77.5°	484.0	502.8	578.6	838.1	1246.4	1065.3	1600.5	8016.3	8989.6	9414.1	5274.8
80°	278.5	294.7	402.9	511.0	843.5	727.3	765.1	3217.3	3317.3	3157.8	1649.2
82.5°	137.9	156.8	240.6	348.7	527.2	489.4	351.5	967.9	1022.0	995.0	416.4
85°	32.4	40.6	135.1	229.8	256.8	219.0	170.3	283.9	351.5	343.3	159.5
87.5°	2.7	5.4	48.7	40.6	43.2	73.0	59.5	73.0	113.5	105.5	56.8
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°	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7	3998.7
2.5°	4033.9	3982.5	3833.8	3687.8	3566.1	3439.0	3322.8	3255.2	3228.2	3198.4	3211.9
5°	4090.6	3966.3	3666.2	3406.6	3152.4	2936.2	2763.1	2652.3	2598.2	2590.1	2576.5
7.5°	4166.3	3952.7	3487.7	3082.1	2749.6	2509.0	2311.7	2152.1	2103.5	2060.2	2025.0
10°	4258.3	3928.4	3266.0	2741.5	2387.3	2084.5	1824.9	1635.7	1538.4	1511.3	1530.3
12.5°	4355.6	3882.4	3033.5	2427.8	2019.6	1633.0	1392.4	1297.7	1270.7	1259.9	1262.6
15°	4452.9	3825.7	2790.1	2125.1	1608.7	1303.1	1192.3	1168.0	1157.2	1151.7	1146.3
17.5°	4542.1	3733.7	2517.1	1830.3	1303.1	1113.9	1073.3	1051.7	1030.1	1022.0	1008.4
20°	4647.6	3628.3	2271.1	1500.5	1103.1	1008.4	959.8	919.2	886.8	865.1	862.5
22.5°	4747.6	3493.1	2014.2	1243.6	1005.8	905.7	827.3	784.1	746.2	719.2	727.3
25°	4801.7	3328.2	1784.4	1084.1	916.5	803.0	716.4	662.4	621.9	608.3	605.7
27.5°	4801.7	3125.4	1560.0	992.2	835.5	711.0	621.9	570.5	543.4	524.5	527.2
30°	4763.9	2901.0	1351.8	922.0	765.1	629.9	546.1	500.2	478.6	465.0	462.4
32.5°	4734.1	2687.4	1173.4	854.3	692.2	559.7	486.6	451.5	429.9	416.4	416.4
35°	4780.1	2503.6	1035.5	786.8	624.5	505.6	440.7	408.3	386.6	375.8	373.1
37.5°	4901.7	2335.9	930.0	713.8	562.4	459.6	408.3	370.4	348.7	335.3	329.9
40°	5201.8	2241.3	851.7	646.2	502.8	421.8	370.4	335.3	308.2	294.7	292.0
42.5°	5683.1	2244.0	776.0	584.0	456.9	389.3	337.9	297.4	267.6	254.2	251.4
45°	6407.7	2346.7	716.4	524.5	416.4	354.2	302.8	259.6	232.6	219.0	219.0
47.5°	7275.5	2546.9	665.1	473.2	378.5	321.7	267.6	224.4	197.4	186.6	186.6
50°	8216.4	2806.4	613.7	419.1	346.1	286.6	229.8	194.7	173.0	164.9	164.9
52.5°	9176.2	3120.0	562.4	375.8	310.9	248.8	197.4	173.0	154.1	148.7	146.0
55°	10436.1	3520.1	508.3	329.9	273.0	213.6	175.7	151.4	129.7	121.7	118.9
57.5°	12374.6	4123.0	448.8	289.3	224.4	178.4	151.4	127.1	102.7	89.2	86.5
60°	14713.3	4858.4	386.6	254.2	181.1	146.0	121.7	97.3	75.7	59.5	56.8
62.5°	16903.2	5326.2	327.1	213.6	143.3	110.9	86.5	73.0	54.1	37.8	35.2
65°	17871.1	5169.4	270.4	173.0	113.5	78.4	56.8	51.4	32.4	16.2	13.5
66°	17549.4	4936.9	248.8	156.8	102.7	67.6	48.7	43.2	24.4	8.1	8.1
67.5°	16600.4	4388.0	216.3	135.1	89.2	54.1	37.8	32.4	13.5	2.7	0.0
70°	14223.9	3549.9	170.3	100.1	64.9	37.8	21.6	16.2	8.1	0.0	0.0
72.5°	10925.4	2644.2	135.1	75.7	46.0	21.6	10.8	5.4	8.1	0.0	0.0
75°	6694.3	1511.3	105.5	56.8	29.8	13.5	8.1	0.0	8.1	2.7	0.0
77.5°	2971.3	678.6	70.3	37.8	21.6	10.8	5.4	0.0	5.4	2.7	0.0
80°	751.6	221.7	40.6	27.0	16.2	8.1	2.7	0.0	5.4	5.4	2.7
82.5°	205.5	81.1	29.8	21.6	13.5	8.1	2.7	0.0	5.4	5.4	5.4
85°	81.1	37.8	27.0	21.6	16.2	8.1	2.7	0.0	5.4	5.4	5.4
87.5°	37.8	27.0	27.0	24.4	18.9	8.1	2.7	0.0	5.4	2.7	5.4
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)