

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: P531504

Luminaire Tested: **GALN-SA6D-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41394 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

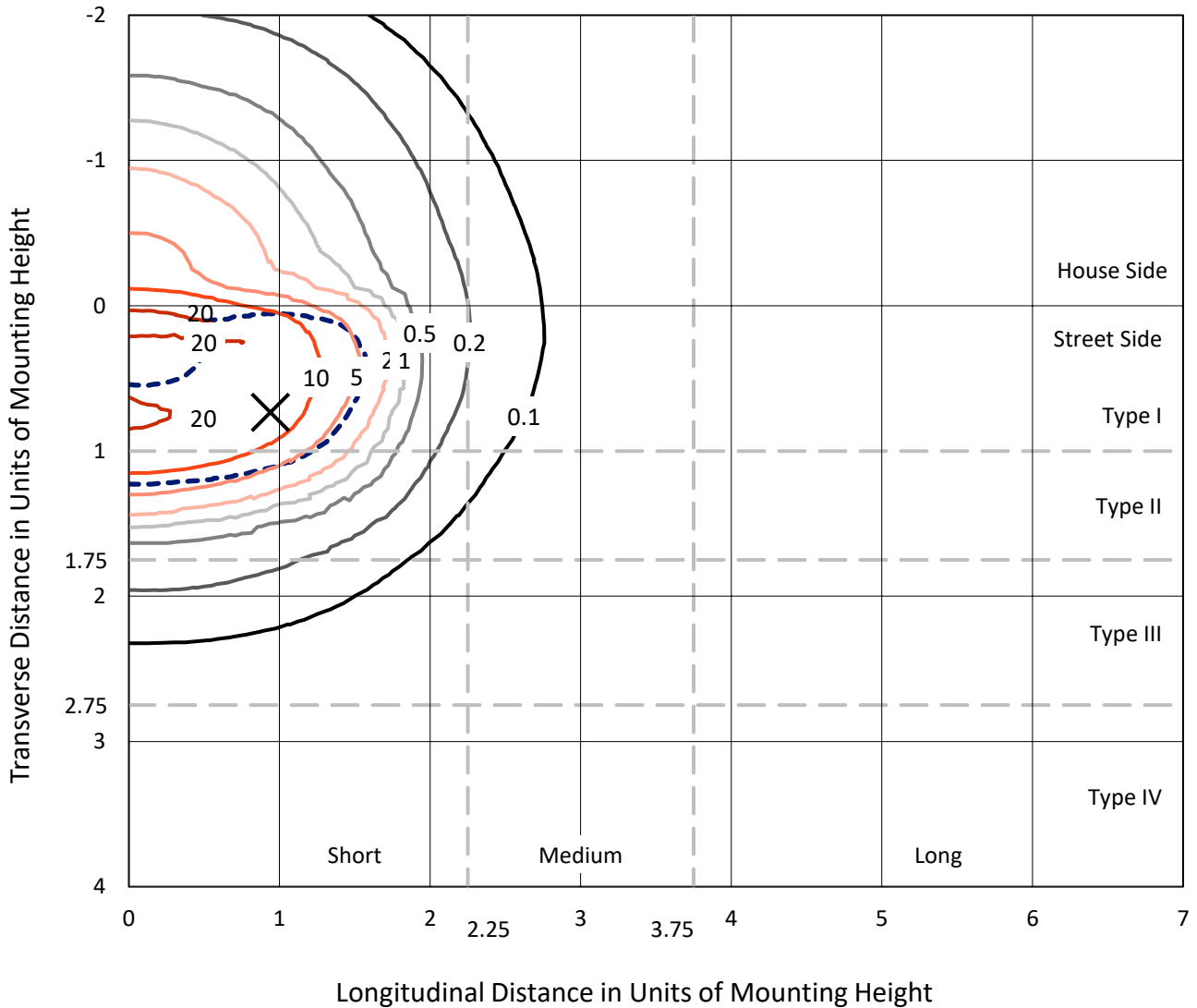
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

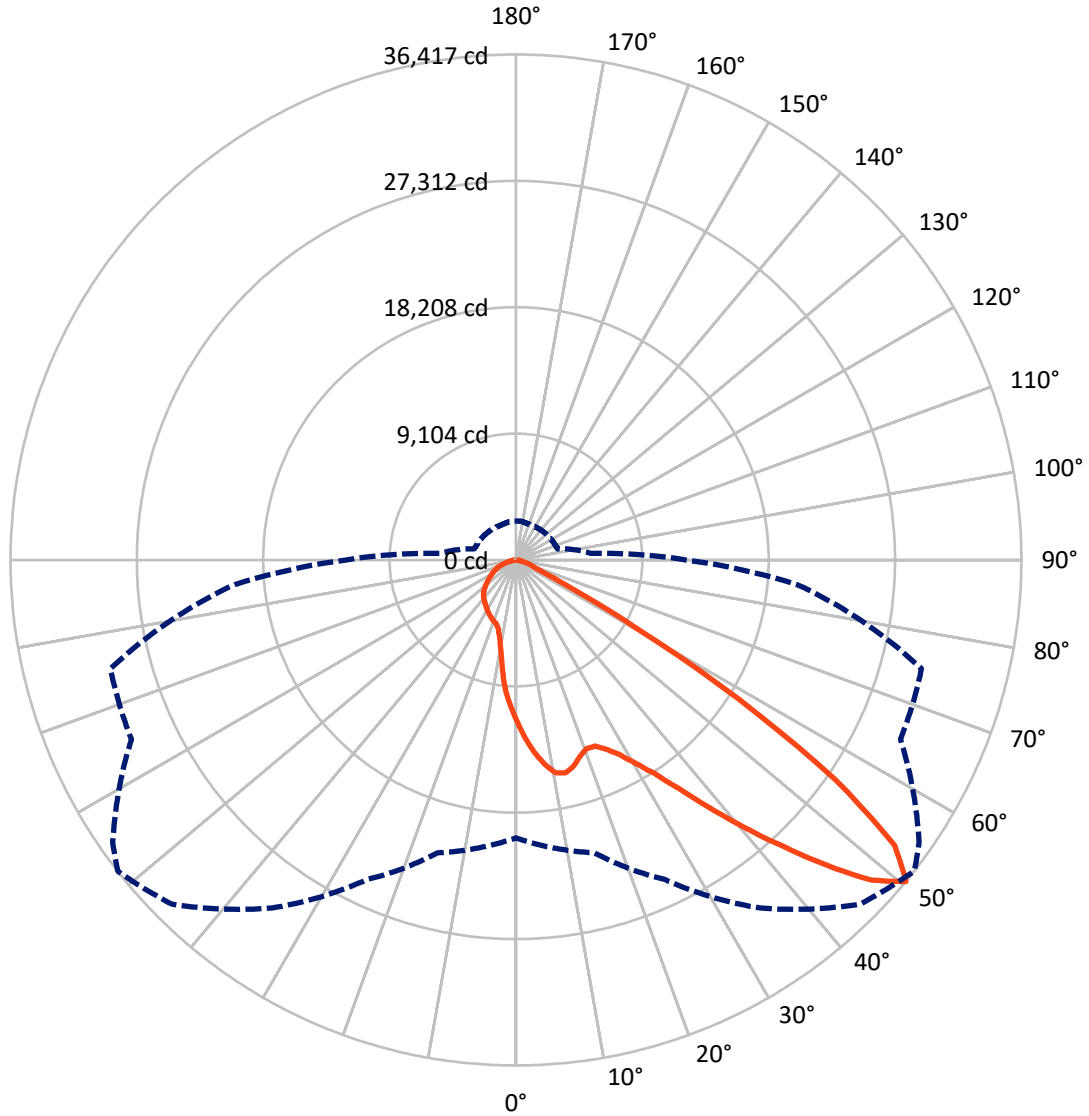
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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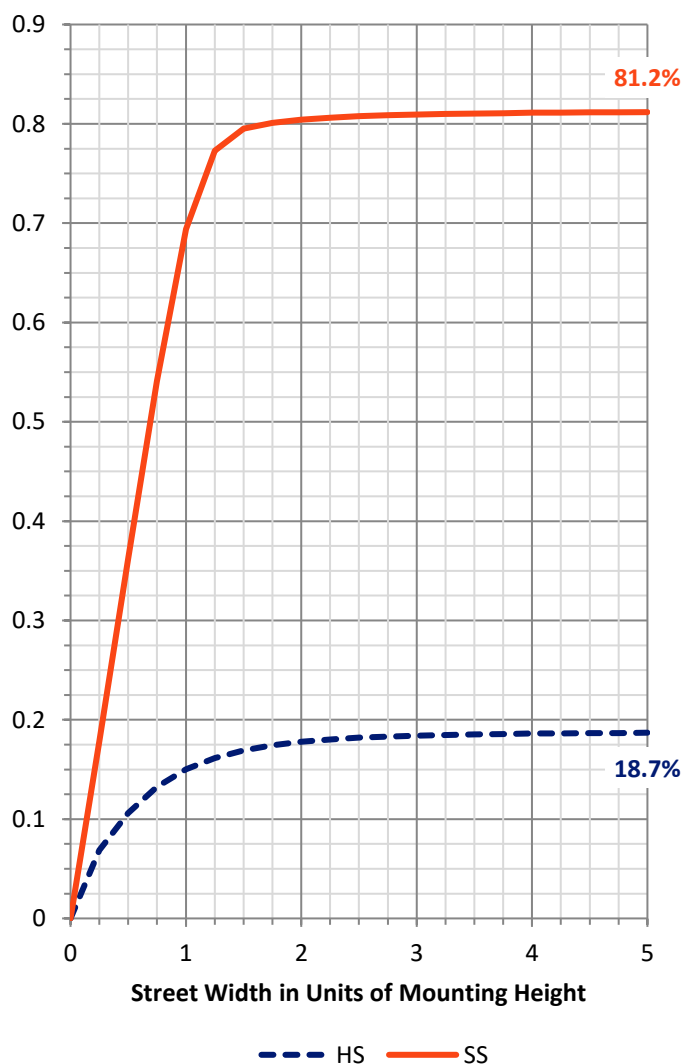
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7781.1	0.0	7781.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33612.9	0.0	33612.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	41394.0	0.0	41394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.5	2.6
10°-20°	2882.5	7.0
20°-30°	4855.5	11.7
30°-40°	8147.9	19.7
40°-50°	12464.3	30.1
50°-60°	9087.4	22.0
60°-70°	2022.4	4.9
70°-80°	729.5	1.8
80°-90°	129.1	0.3
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°	41394.0	100.0
0°-180°	41394.0	100.0

Coefficient of Utilization

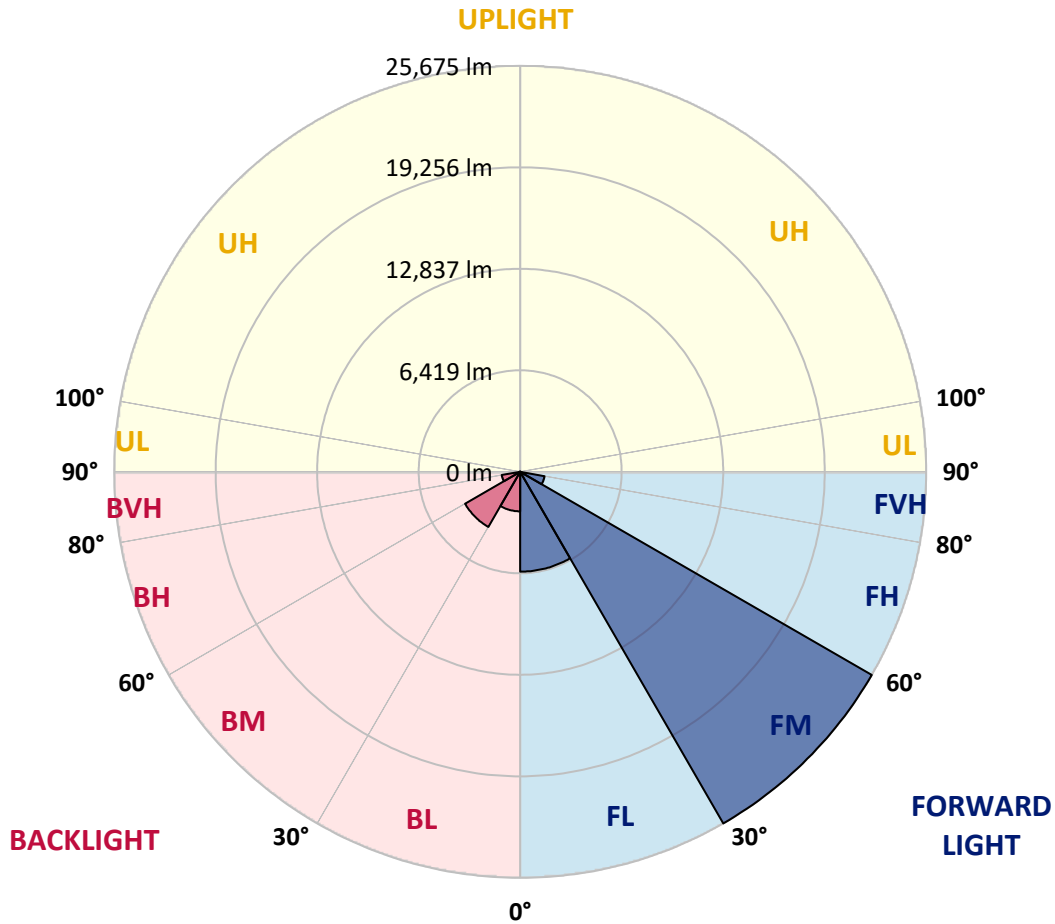


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6314.0	15.3			
FM (30°-60°)	25674.7	62.0			
FH (60°-80°)	1566.4	3.8			G1/1800
FVH (80°-90°)	57.9	0.1			G1/100
BL (0°-30°)	2499.4	6.0	B3/2500		
BM (30°-60°)	4024.9	9.7	B3/5000		
BH (60°-80°)	1185.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	71.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3
2.5°	13738.5	13474.1	13504.1	13314.5	13110.0	13050.1	12840.6	12641.1	12491.4	12172.1	11877.8
5°	15015.6	14935.8	14816.1	14666.4	14511.8	14132.6	13918.1	13668.7	13120.0	12626.1	12137.2
7.5°	15200.2	15185.2	15250.1	15250.1	15305.0	15160.3	14856.0	14681.4	14097.7	13294.6	12386.6
10°	13903.2	13948.1	14262.3	14671.4	15240.1	15634.2	15584.3	15539.4	14900.9	13803.4	12681.0
12.5°	12870.5	12770.8	12955.3	13304.5	14157.6	15110.4	15753.9	15758.9	15594.3	14616.5	12895.5
15°	12286.9	12356.7	12406.6	12571.2	13214.7	14317.2	15449.6	15783.9	16507.2	15190.2	13234.7
17.5°	12661.0	12426.5	12416.6	12456.5	12785.7	13613.8	14885.9	15459.6	17006.1	15928.5	13653.7
20°	13149.9	13144.9	13005.2	12955.3	12950.3	13688.7	14516.8	15295.0	17270.5	16886.3	14077.8
22.5°	14007.9	14007.9	13778.5	13668.7	13434.2	14037.9	14566.6	15095.4	17709.4	17544.8	14282.3
25°	15444.6	15210.2	14816.1	14546.7	14412.0	14626.5	15095.4	15569.3	18093.6	18243.2	14706.3
27.5°	16771.6	16402.4	16207.9	15744.0	15564.4	15439.6	15868.7	16347.6	18542.5	19330.7	14935.8
30°	18278.1	18213.3	17864.1	17265.5	16821.5	16592.0	16986.1	17460.0	19365.7	20443.2	15464.6
32.5°	20972.0	20383.3	19909.4	19176.1	18452.7	17963.9	18353.0	18667.3	20732.5	21605.5	16043.3
35°	23880.3	23690.8	22872.6	21550.7	20443.2	20004.2	20233.7	20468.1	22323.9	23381.5	17016.0
37.5°	26738.8	26479.4	25805.9	24693.5	23346.5	22453.6	22618.2	22892.6	24109.8	25776.0	18203.3
40°	28794.1	28474.8	28135.6	27971.0	26634.0	25411.8	25317.0	25386.9	26524.3	28020.8	19520.3
42.5°	28943.7	29337.8	29442.6	30106.1	29791.8	28789.1	28205.4	28220.4	28829.0	30240.8	20852.3
45°	28629.4	28265.3	29038.5	30849.4	31887.0	32355.9	31373.2	31248.4	30255.7	31527.8	21515.7
47.5°	25332.0	25431.8	26738.8	29602.2	32600.4	34695.6	34466.1	34052.0	31019.0	31482.9	21411.0
50°	20024.1	20627.8	21840.0	25406.8	30604.9	35064.7	36416.6	35458.8	30565.0	30245.7	20343.4
52.5°	13334.5	13583.9	14382.1	18986.5	24608.7	31343.2	34171.8	34391.3	30146.0	28624.5	18991.5
55°	5936.4	5916.5	7038.9	9917.3	15439.6	23850.4	27921.1	29258.0	28534.7	26973.2	17674.5
57.5°	2514.2	2599.0	3058.0	4285.2	7592.6	14392.0	18916.7	20089.0	21944.8	22149.3	13559.0
60°	1701.1	1711.1	1835.8	2145.1	3177.7	6759.5	9922.3	11329.1	12656.0	12566.2	7193.5
62.5°	1336.9	1371.9	1466.6	1591.4	1885.7	3068.0	4439.8	5223.0	5307.8	4464.8	2728.8
65°	1142.4	1147.4	1242.2	1346.9	1476.6	1785.9	2140.1	2180.0	2205.0	2125.1	2005.4
67.5°	942.8	952.8	1027.6	1147.4	1267.1	1366.9	1466.6	1516.5	1631.3	1855.8	1825.8
70°	748.3	763.3	828.1	927.9	1037.6	1097.5	1222.2	1267.1	1371.9	1546.5	1616.3
72.5°	568.7	573.7	628.6	698.4	798.2	858.0	962.8	1012.7	1082.5	1232.2	1297.0
75°	409.1	424.0	463.9	498.9	513.8	553.7	653.5	708.4	808.1	873.0	878.0
77.5°	214.5	224.5	234.5	234.5	284.3	359.2	424.0	454.0	523.8	573.7	548.7
80°	84.8	89.8	114.7	154.6	199.5	259.4	304.3	319.3	379.1	409.1	424.0
82.5°	49.9	54.9	74.8	109.7	144.7	184.6	219.5	234.5	274.4	309.3	319.3
85°	24.9	29.9	44.9	69.8	94.8	114.7	109.7	104.8	104.8	99.8	104.8
87.5°	10.0	10.0	15.0	15.0	15.0	20.0	24.9	24.9	24.9	29.9	29.9
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°	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3	11668.3
2.5°	11683.2	11483.7	11299.1	10959.9	10590.7	10486.0	10057.0	9902.3	9792.6	9662.9	9623.0
5°	11743.1	11478.7	10885.1	10201.6	9657.9	8959.5	8500.5	8006.7	7647.5	7557.7	7532.8
7.5°	11867.8	11413.9	10391.2	9358.6	8246.1	7298.3	6574.9	6185.8	5841.6	5821.7	5786.7
10°	12007.5	11219.3	9852.4	8231.2	6809.4	5931.4	5497.4	5327.8	5243.0	5223.0	5213.1
12.5°	12122.2	11179.4	9248.8	7133.7	5791.7	5262.9	5133.2	5118.3	5153.2	5163.2	5183.1
15°	12172.1	11019.8	8520.5	6150.9	5158.2	4963.6	5018.5	5078.4	5103.3	5168.2	5118.3
17.5°	12266.9	10815.2	7622.5	5372.7	4804.0	4838.9	4933.7	5003.5	5043.5	5088.3	5023.5
20°	12316.8	10630.7	6779.5	4908.8	4679.3	4744.1	4873.8	4928.7	4978.6	4998.6	4923.7
22.5°	12271.9	10251.5	6036.2	4534.6	4559.6	4644.4	4759.1	4819.0	4789.0	4709.2	4664.3
25°	12152.2	9717.7	5262.9	4295.2	4389.9	4539.6	4629.4	4584.5	4529.6	4484.7	4469.8
27.5°	12147.2	9064.2	4704.2	4075.7	4245.3	4449.8	4419.9	4380.0	4404.9	4370.0	4330.1
30°	12172.1	8430.7	4245.3	3951.0	4140.5	4240.3	4275.2	4235.3	4265.2	4200.4	4220.3
32.5°	12042.4	7812.1	3946.0	3806.3	4015.8	4010.8	4125.6	4155.5	4085.6	3951.0	3970.9
35°	12097.3	7313.3	3691.5	3741.4	3876.1	3876.1	3965.9	3931.0	3746.4	3666.6	3686.6
37.5°	12476.4	6824.4	3566.8	3651.6	3741.4	3781.3	3751.4	3601.8	3556.9	3556.9	3566.8
40°	12835.6	6405.3	3492.0	3631.7	3616.7	3641.7	3422.2	3437.1	3437.1	3442.1	3417.2
42.5°	13154.9	6121.0	3432.1	3512.0	3536.9	3407.2	3272.5	3257.5	3292.5	3287.5	3267.5
45°	13269.6	5886.5	3347.3	3377.3	3397.2	3182.7	3117.9	3087.9	3127.8	3142.8	3162.8
47.5°	12830.6	5692.0	3252.6	3192.7	3152.8	3013.1	2928.3	2873.4	2923.3	3008.1	3028.1
50°	12266.9	5437.5	3102.9	2988.2	2903.4	2843.5	2783.6	2728.8	2763.7	2823.5	2808.6
52.5°	11433.8	5038.5	2913.3	2793.6	2648.9	2663.9	2609.0	2579.1	2599.0	2599.0	2584.1
55°	10246.5	4140.5	2594.1	2509.3	2389.5	2429.4	2439.4	2399.5	2359.6	2394.5	2364.6
57.5°	6994.0	2923.3	2314.7	2314.7	2195.0	2249.8	2244.9	2150.1	2055.3	2065.3	2045.3
60°	4045.7	2329.7	2135.1	2115.2	1990.4	2035.3	2045.3	1980.5	1835.8	1845.8	1825.8
62.5°	2299.7	1990.4	1865.7	1835.8	1810.9	1850.8	1850.8	1766.0	1641.2	1651.2	1631.3
65°	1955.5	1845.8	1666.2	1661.2	1651.2	1661.2	1621.3	1531.5	1421.7	1376.8	1381.8
67.5°	1775.9	1706.1	1531.5	1486.6	1456.7	1451.7	1376.8	1292.0	1242.2	1202.2	1197.3
70°	1556.4	1501.6	1371.9	1312.0	1282.1	1212.2	1137.4	1082.5	1012.7	992.7	1012.7
72.5°	1232.2	1227.2	1177.3	1112.5	1047.6	992.7	927.9	853.0	788.2	773.2	738.3
75°	853.0	863.0	873.0	863.0	808.1	738.3	663.5	603.6	523.8	478.9	468.9
77.5°	558.7	573.7	588.7	568.7	533.8	468.9	419.0	344.2	284.3	249.4	244.4
80°	409.1	429.0	439.0	424.0	384.1	334.2	279.4	219.5	174.6	144.7	144.7
82.5°	314.3	334.2	344.2	319.3	279.4	239.5	199.5	154.6	119.7	94.8	89.8
85°	109.7	104.8	124.7	129.7	154.6	144.7	119.7	89.8	69.8	49.9	44.9
87.5°	29.9	29.9	34.9	34.9	29.9	24.9	24.9	24.9	20.0	15.0	15.0
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)