

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: P528852

Luminaire Tested: **GALN-SA4A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528852
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-SA4A-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 13652 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

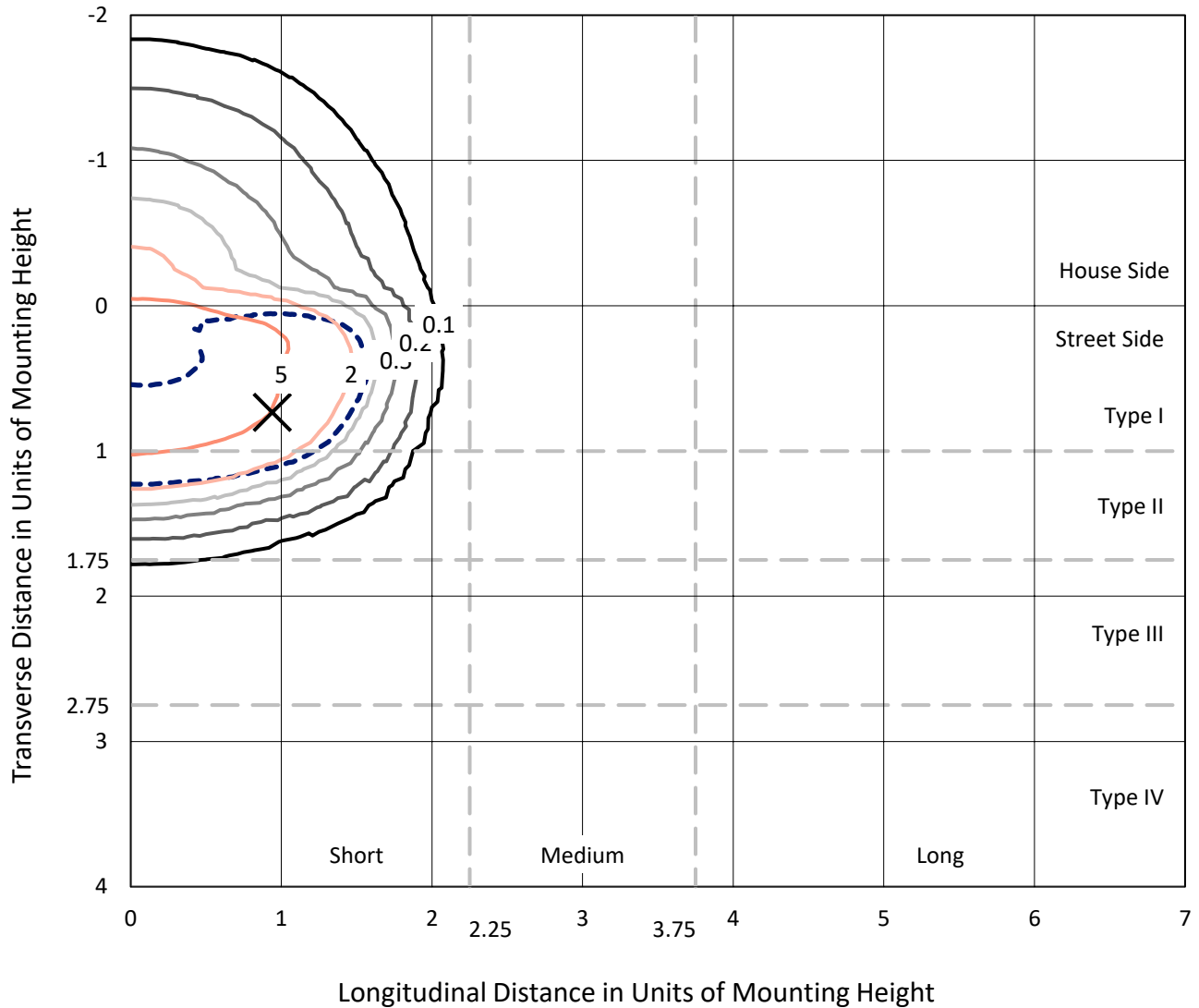
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

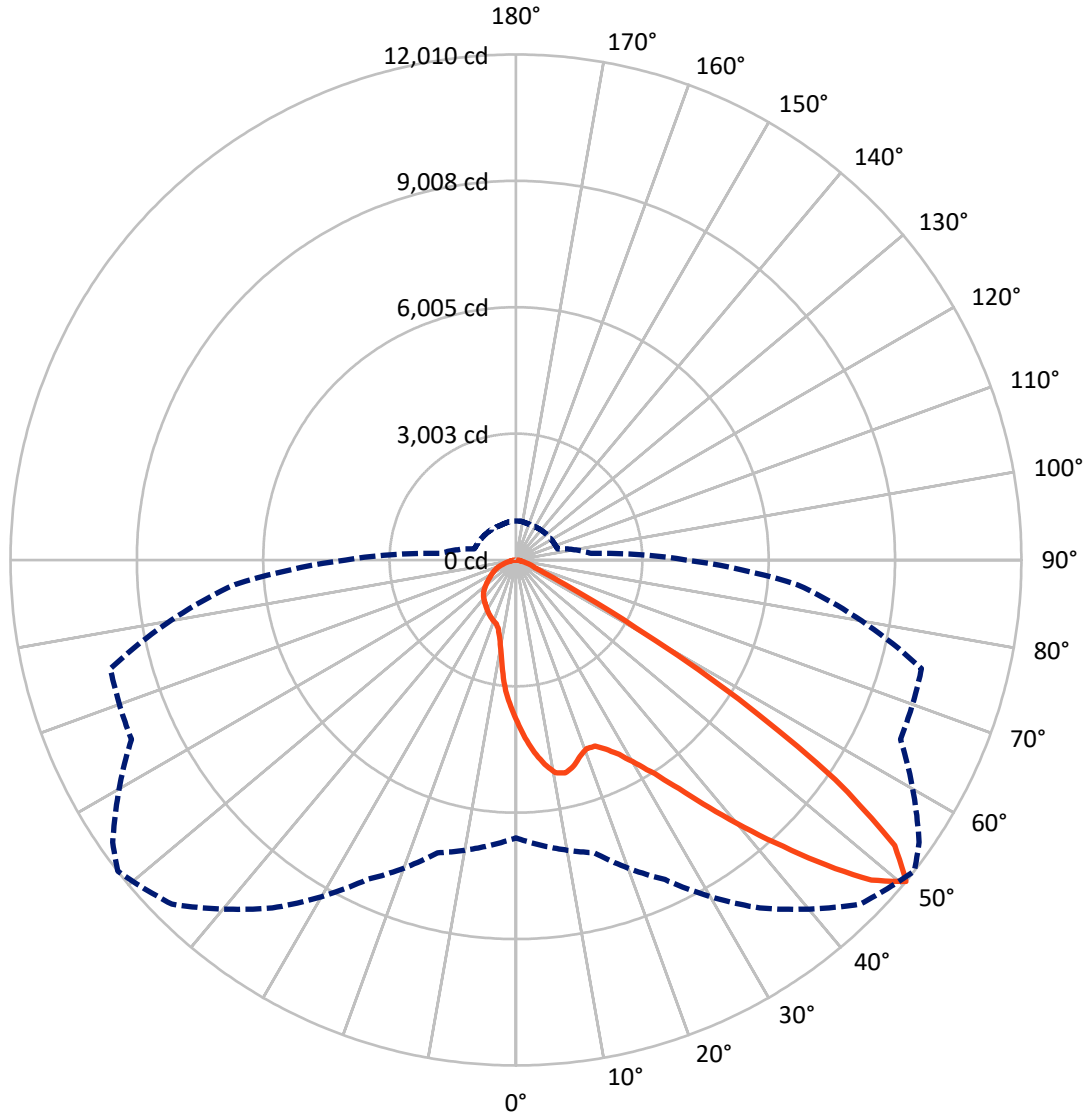
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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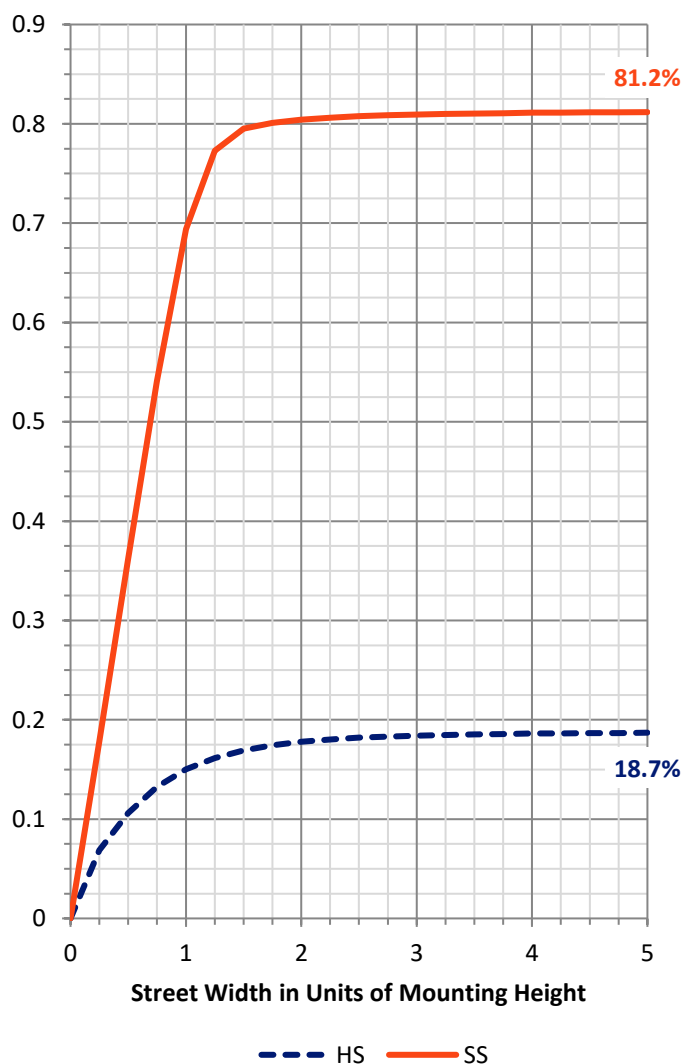
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2566.2	0.0	2566.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11085.7	0.0	11085.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	13652.0	0.0	13652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	2.6
10°-20°	950.7	7.0
20°-30°	1601.4	11.7
30°-40°	2687.2	19.7
40°-50°	4110.8	30.1
50°-60°	2997.1	22.0
60°-70°	667.0	4.9
70°-80°	240.6	1.8
80°-90°	42.6	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°	13652.0	100.0
0°-180°	13652.0	100.0

Coefficient of Utilization



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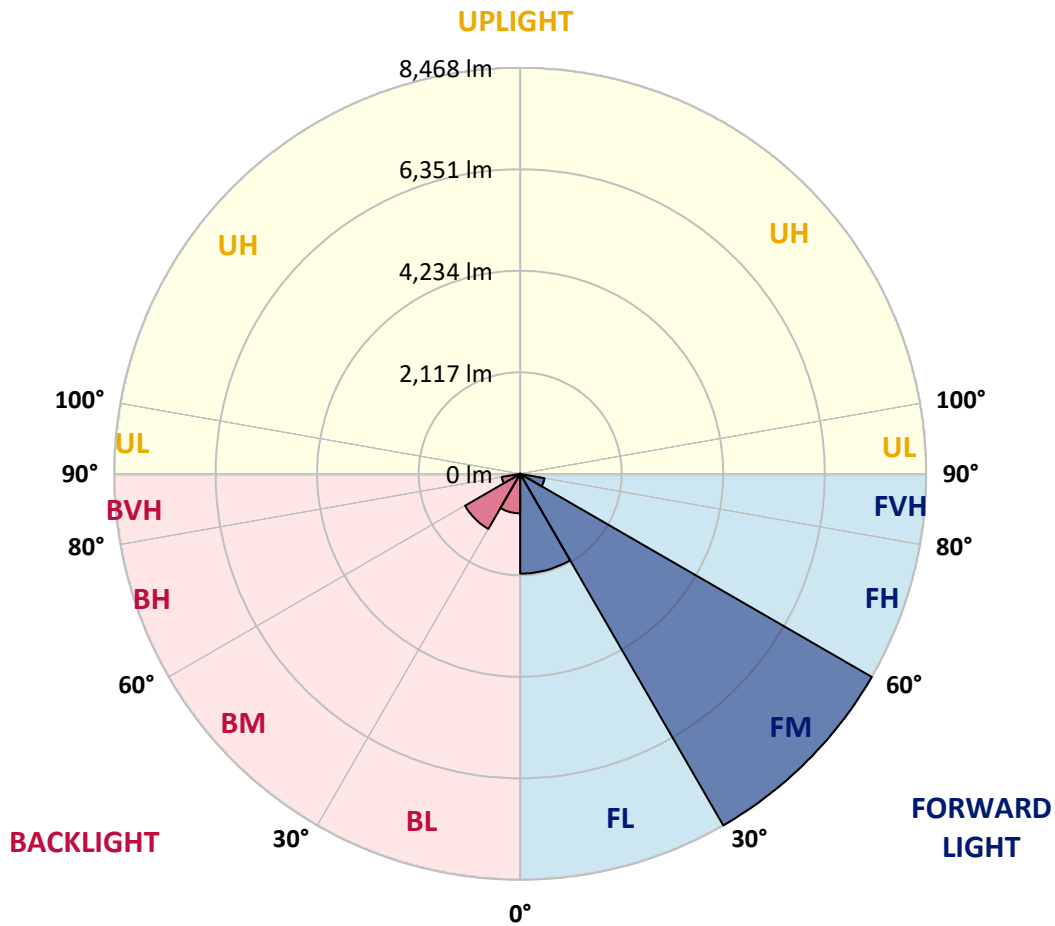
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.4	15.3			
FM (30°-60°)	8467.7	62.0			
FH (60°-80°)	516.6	3.8			G0/660
FVH (80°-90°)	19.1	0.1			G1/100
BL (0°-30°)	824.3	6.0	B2/1000		
BM (30°-60°)	1327.4	9.7	B2/2500		
BH (60°-80°)	391.0	2.9	B1/500		G1/500
BVH (80°-90°)	23.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3
2.5°	4531.1	4443.9	4453.7	4391.2	4323.8	4304.0	4234.9	4169.1	4119.7	4014.4	3917.4
5°	4952.2	4925.9	4886.4	4837.1	4786.1	4661.0	4590.3	4508.0	4327.0	4164.2	4002.9
7.5°	5013.1	5008.2	5029.6	5029.6	5047.7	5000.0	4899.6	4842.0	4649.5	4384.6	4085.2
10°	4585.4	4600.2	4703.8	4838.7	5026.3	5156.3	5139.8	5125.0	4914.4	4552.4	4182.3
12.5°	4244.8	4211.9	4272.8	4387.9	4669.3	4983.5	5195.7	5197.4	5143.1	4820.6	4253.0
15°	4052.3	4075.3	4091.8	4146.1	4358.3	4721.9	5095.4	5205.6	5444.2	5009.8	4364.9
17.5°	4175.7	4098.4	4095.1	4108.2	4216.8	4489.9	4909.5	5098.7	5608.7	5253.3	4503.1
20°	4336.9	4335.3	4289.2	4272.8	4271.1	4514.6	4787.7	5044.4	5695.9	5569.2	4642.9
22.5°	4619.9	4619.9	4544.2	4508.0	4430.7	4629.8	4804.2	4978.6	5840.7	5786.4	4710.4
25°	5093.7	5016.4	4886.4	4797.6	4753.2	4823.9	4978.6	5134.9	5967.4	6016.7	4850.2
27.5°	5531.4	5409.6	5345.5	5192.5	5133.2	5092.1	5233.6	5391.5	6115.4	6375.4	4925.9
30°	6028.2	6006.9	5891.7	5694.3	5547.8	5472.1	5602.1	5758.4	6386.9	6742.3	5100.3
32.5°	6916.7	6722.5	6566.2	6324.4	6085.8	5924.6	6052.9	6156.6	6837.7	7125.6	5291.2
35°	7875.9	7813.4	7543.5	7107.5	6742.3	6597.5	6673.2	6750.5	7362.6	7711.4	5612.0
37.5°	8818.6	8733.1	8511.0	8144.1	7699.8	7405.3	7459.6	7550.1	7951.6	8501.1	6003.6
40°	9496.5	9391.2	9279.3	9225.0	8784.1	8381.0	8349.7	8372.7	8747.9	9241.4	6437.9
42.5°	9545.8	9675.8	9710.3	9929.2	9825.5	9494.8	9302.3	9307.3	9508.0	9973.6	6877.2
45°	9442.2	9322.1	9577.1	10174.3	10516.5	10671.2	10347.1	10305.9	9978.5	10398.1	7096.0
47.5°	8354.7	8387.6	8818.6	9763.0	10751.8	11442.8	11367.1	11230.6	10230.3	10383.3	7061.5
50°	6604.1	6803.2	7203.0	8379.3	10093.7	11564.6	12010.4	11694.5	10080.5	9975.2	6709.4
52.5°	4397.8	4480.1	4743.3	6261.9	8116.1	10337.2	11270.1	11342.4	9942.3	9440.5	6263.5
55°	1957.9	1951.3	2321.5	3270.8	5092.1	7866.0	9208.5	9649.5	9410.9	8895.9	5829.2
57.5°	829.2	857.2	1008.5	1413.3	2504.1	4746.6	6238.8	6625.5	7237.5	7305.0	4471.8
60°	561.0	564.3	605.5	707.5	1048.0	2229.3	3272.4	3736.4	4174.0	4144.4	2372.5
62.5°	440.9	452.4	483.7	524.8	621.9	1011.8	1464.3	1722.6	1750.6	1472.5	900.0
65°	376.8	378.4	409.7	444.2	487.0	589.0	705.8	719.0	727.2	700.9	661.4
67.5°	311.0	314.2	338.9	378.4	417.9	450.8	483.7	500.2	538.0	612.0	602.2
70°	246.8	251.7	273.1	306.0	342.2	362.0	403.1	417.9	452.4	510.0	533.1
72.5°	187.6	189.2	207.3	230.3	263.2	283.0	317.5	334.0	357.0	406.4	427.8
75°	134.9	139.8	153.0	164.5	169.5	182.6	215.5	233.6	266.5	287.9	289.6
77.5°	70.7	74.0	77.3	77.3	93.8	118.5	139.8	149.7	172.8	189.2	181.0
80°	28.0	29.6	37.8	51.0	65.8	85.6	100.4	105.3	125.0	134.9	139.8
82.5°	16.5	18.1	24.7	36.2	47.7	60.9	72.4	77.3	90.5	102.0	105.3
85°	8.2	9.9	14.8	23.0	31.3	37.8	36.2	34.6	34.6	32.9	34.6
87.5°	3.3	3.3	4.9	4.9	4.9	6.6	8.2	8.2	8.2	9.9	9.9
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°	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3	3848.3
2.5°	3853.2	3787.4	3726.5	3614.6	3492.9	3458.3	3316.9	3265.8	3229.7	3186.9	3173.7
5°	3873.0	3785.8	3590.0	3364.6	3185.2	2954.9	2803.5	2640.6	2522.2	2492.6	2484.3
7.5°	3914.1	3764.4	3427.1	3086.5	2719.6	2407.0	2168.5	2040.1	1926.6	1920.0	1908.5
10°	3960.2	3700.2	3249.4	2714.7	2245.8	1956.2	1813.1	1757.1	1729.2	1722.6	1719.3
12.5°	3998.0	3687.0	3050.3	2352.7	1910.2	1735.8	1693.0	1688.0	1699.6	1702.8	1709.4
15°	4014.4	3634.4	2810.1	2028.6	1701.2	1637.0	1655.1	1674.9	1683.1	1704.5	1688.0
17.5°	4045.7	3566.9	2514.0	1771.9	1584.4	1595.9	1627.2	1650.2	1663.4	1678.2	1656.8
20°	4062.2	3506.1	2235.9	1618.9	1543.3	1564.6	1607.4	1625.5	1642.0	1648.6	1623.9
22.5°	4047.3	3381.0	1990.8	1495.5	1503.8	1531.7	1569.6	1589.3	1579.5	1553.1	1538.3
25°	4007.9	3205.0	1735.8	1416.6	1447.8	1497.2	1526.8	1512.0	1493.9	1479.1	1474.2
27.5°	4006.2	2989.4	1551.5	1344.2	1400.1	1467.6	1457.7	1444.5	1452.8	1441.3	1428.1
30°	4014.4	2780.5	1400.1	1303.0	1365.6	1398.5	1410.0	1396.8	1406.7	1385.3	1391.9
32.5°	3971.7	2576.5	1301.4	1255.3	1324.4	1322.8	1360.6	1370.5	1347.5	1303.0	1309.6
35°	3989.8	2412.0	1217.5	1233.9	1278.4	1278.4	1308.0	1296.5	1235.6	1209.3	1215.9
37.5°	4114.8	2250.7	1176.4	1204.3	1233.9	1247.1	1237.2	1187.9	1173.1	1173.1	1176.4
40°	4233.3	2112.5	1151.7	1197.8	1192.8	1201.0	1128.7	1133.6	1133.6	1135.2	1127.0
42.5°	4338.6	2018.7	1131.9	1158.3	1166.5	1123.7	1079.3	1074.4	1085.9	1084.2	1077.6
45°	4376.4	1941.4	1104.0	1113.8	1120.4	1049.7	1028.3	1018.4	1031.6	1036.5	1043.1
47.5°	4231.6	1877.2	1072.7	1053.0	1039.8	993.7	965.8	947.7	964.1	992.1	998.7
50°	4045.7	1793.3	1023.4	985.5	957.5	937.8	918.1	900.0	911.5	931.2	926.3
52.5°	3770.9	1661.7	960.8	921.3	873.6	878.6	860.5	850.6	857.2	857.2	852.2
55°	3379.4	1365.6	855.5	827.6	788.1	801.2	804.5	791.4	778.2	789.7	779.9
57.5°	2306.7	964.1	763.4	763.4	723.9	742.0	740.4	709.1	677.8	681.1	674.6
60°	1334.3	768.3	704.2	697.6	656.5	671.3	674.6	653.2	605.5	608.7	602.2
62.5°	758.5	656.5	615.3	605.5	597.2	610.4	610.4	582.4	541.3	544.6	538.0
65°	644.9	608.7	549.5	547.9	544.6	547.9	534.7	505.1	468.9	454.1	455.7
67.5°	585.7	562.7	505.1	490.3	480.4	478.8	454.1	426.1	409.7	396.5	394.9
70°	513.3	495.2	452.4	432.7	422.8	399.8	375.1	357.0	334.0	327.4	334.0
72.5°	406.4	404.7	388.3	366.9	345.5	327.4	306.0	281.3	260.0	255.0	243.5
75°	281.3	284.6	287.9	284.6	266.5	243.5	218.8	199.1	172.8	157.9	154.7
77.5°	184.3	189.2	194.1	187.6	176.0	154.7	138.2	113.5	93.8	82.3	80.6
80°	134.9	141.5	144.8	139.8	126.7	110.2	92.1	72.4	57.6	47.7	47.7
82.5°	103.7	110.2	113.5	105.3	92.1	79.0	65.8	51.0	39.5	31.3	29.6
85°	36.2	34.6	41.1	42.8	51.0	47.7	39.5	29.6	23.0	16.5	14.8
87.5°	9.9	9.9	11.5	11.5	9.9	8.2	8.2	8.2	6.6	4.9	4.9
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)