

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: P530273

Luminaire Tested: **GALN-SA5C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17908 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

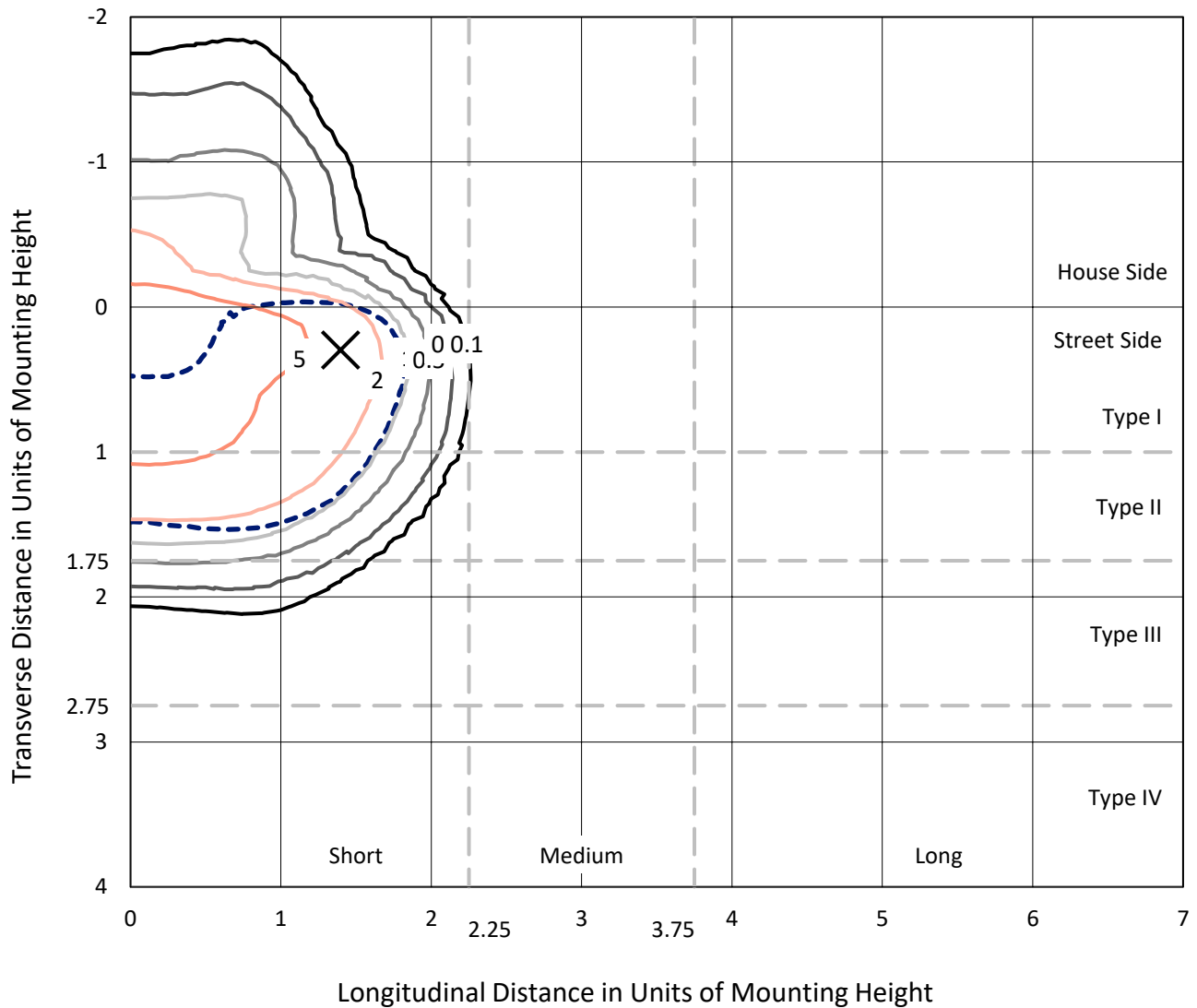
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

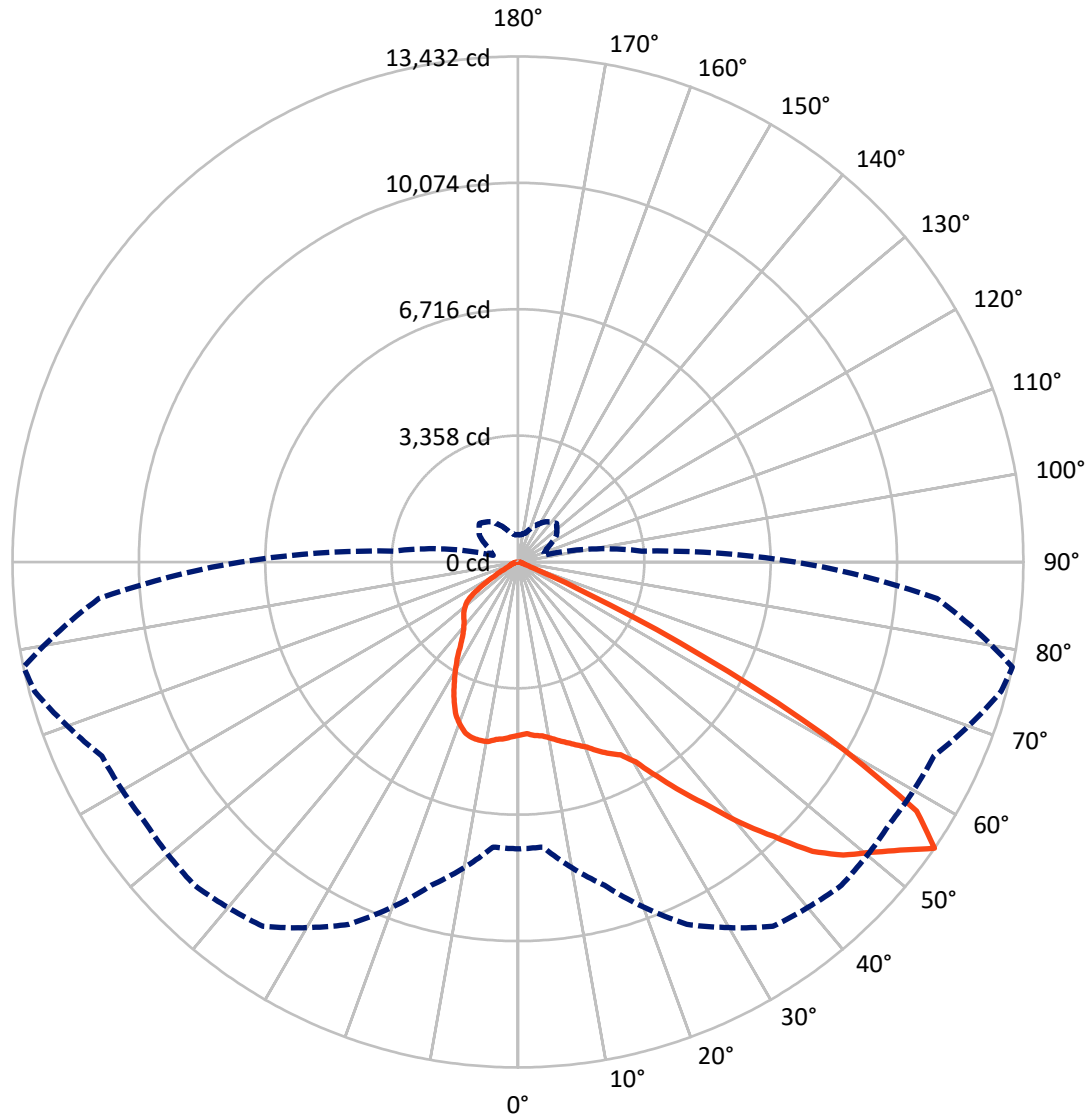
✕ Max cd
 - - - 1/2 Max cd



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 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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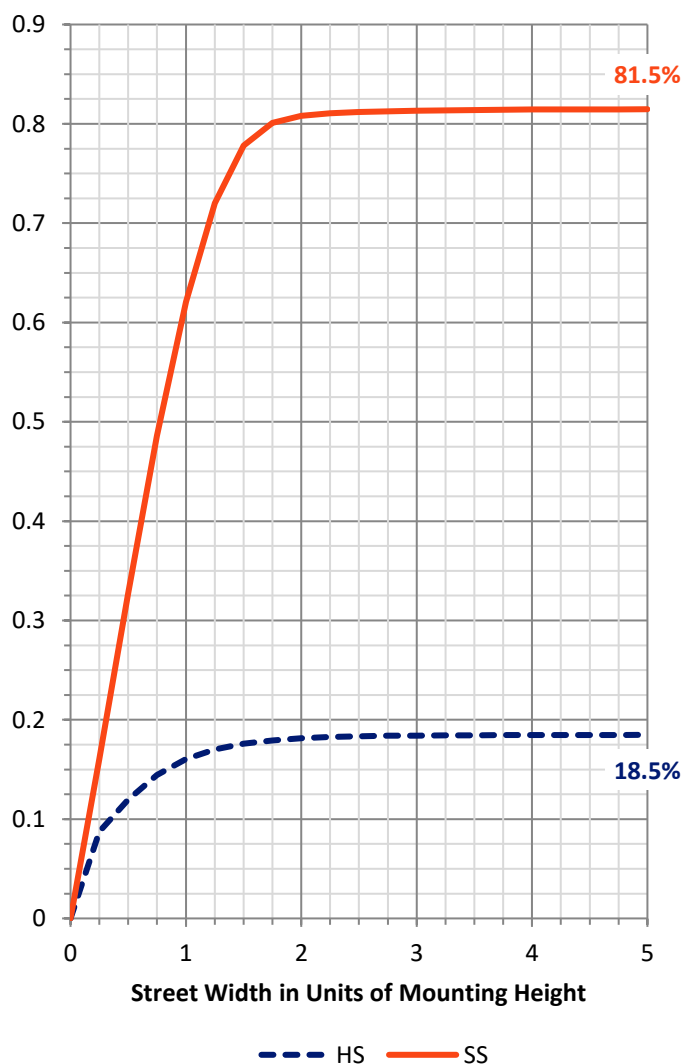
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3326.2	0.0	3326.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14581.8	0.0	14581.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	17908.0	0.0	17908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.5	2.3
10°-20°	1086.5	6.1
20°-30°	1904.5	10.6
30°-40°	3140.2	17.5
40°-50°	4569.4	25.5
50°-60°	5177.6	28.9
60°-70°	1480.4	8.3
70°-80°	114.9	0.6
80°-90°	23.9	0.1
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°	17908.0	100.0
0°-180°	17908.0	100.0

Coefficient of Utilization



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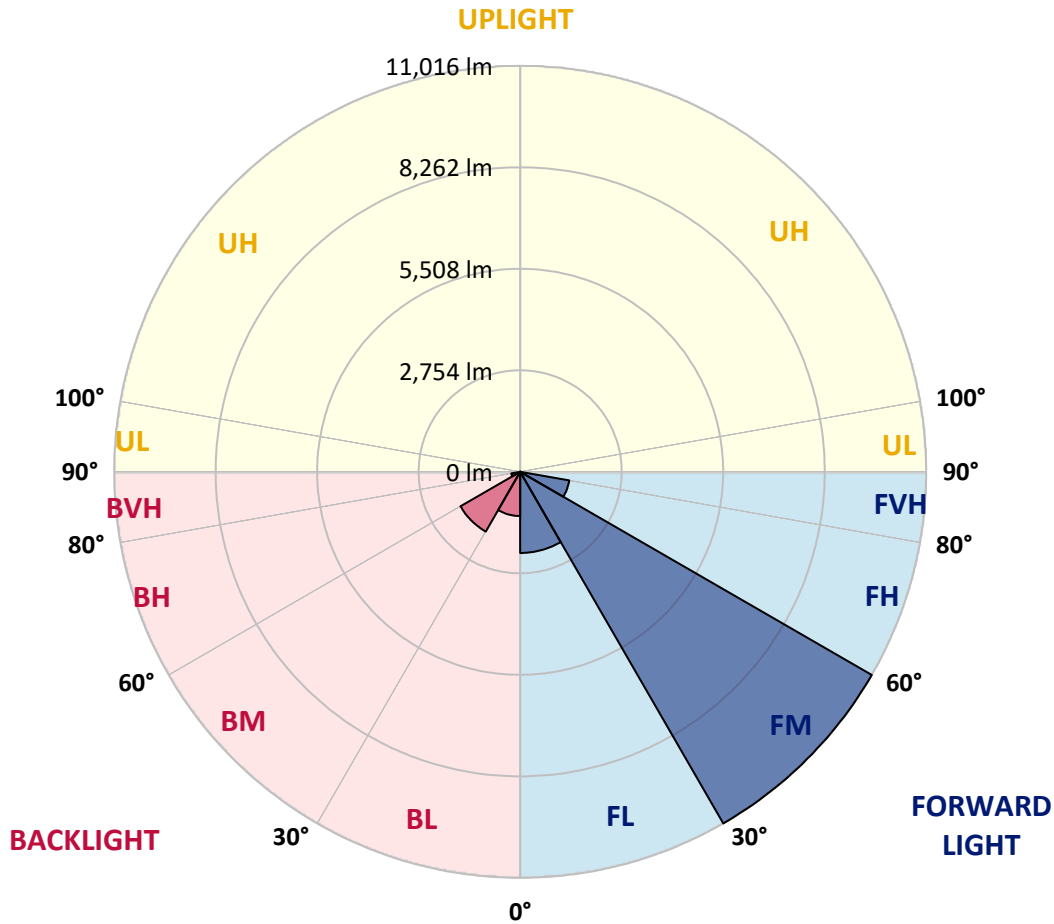
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.4	12.3			
FM (30°-60°)	11016.2	61.5			
FH (60°-80°)	1352.5	7.6			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1200.1	6.7	B3/2500		
BM (30°-60°)	1871.0	10.4	B2/2500		
BH (60°-80°)	242.8	1.4	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2
2.5°	4328.8	4370.4	4376.8	4428.1	4424.9	4511.3	4536.9	4540.1	4597.8	4568.9	4642.6
5°	4207.1	4184.7	4175.1	4264.8	4290.4	4367.2	4431.3	4469.7	4588.1	4629.8	4706.6
7.5°	4098.3	4098.3	4104.7	4184.7	4175.1	4274.4	4341.6	4460.1	4633.0	4668.2	4761.0
10°	3992.6	3954.2	4002.2	4085.5	4155.9	4200.7	4341.6	4453.7	4655.4	4757.8	4885.9
12.5°	3938.2	3957.4	3963.8	4024.6	4101.5	4236.0	4312.8	4498.5	4815.5	4876.3	5014.0
15°	4280.8	4242.4	4149.5	4095.1	4159.1	4223.1	4415.3	4604.2	4898.7	4985.2	5138.9
17.5°	4677.8	4645.8	4568.9	4421.7	4277.6	4396.0	4546.5	4719.4	4988.4	5116.4	5343.8
20°	5196.5	5145.3	5068.4	4780.3	4655.4	4527.3	4687.4	4892.3	5135.7	5250.9	5484.6
22.5°	5814.4	5814.4	5641.5	5292.5	5033.2	4911.5	4978.8	5097.2	5298.9	5455.8	5686.4
25°	6458.0	6438.8	6281.9	5920.1	5481.4	5337.4	5414.2	5497.5	5551.9	5638.3	5792.0
27.5°	7194.4	7082.3	6883.8	6483.6	6096.2	5817.6	5900.9	5827.2	5760.0	5804.8	6025.7
30°	7693.9	7764.3	7511.4	7127.2	6762.2	6451.6	6467.6	6403.6	6096.2	6160.2	6291.5
32.5°	8212.6	8257.4	8116.5	7905.2	7540.2	7178.4	7047.1	6992.7	6762.2	6791.0	6662.9
35°	8644.8	8731.2	8606.4	8513.5	8407.9	8116.5	7754.7	7930.8	7559.4	7489.0	7156.0
37.5°	9041.8	9016.2	9163.5	9067.4	9045.0	8840.1	8443.1	8478.3	8228.6	8212.6	7828.3
40°	9397.2	9403.6	9605.3	9650.2	9560.5	9195.5	8619.2	8897.7	9099.5	9118.7	8625.6
42.5°	9691.8	9778.2	9951.1	10312.9	10178.5	9570.1	8801.7	9105.9	9855.1	9973.5	9381.2
45°	9947.9	10124.0	10338.5	10661.9	10585.1	10101.6	9256.3	9534.9	10661.9	10972.5	10092.0
47.5°	9963.9	10194.5	10428.2	10908.5	11004.5	10386.6	9727.0	10213.7	11302.3	11638.5	10610.7
50°	9899.9	10021.6	10489.0	11010.9	11228.6	10850.8	10386.6	10783.6	11923.4	12134.7	10873.2
52.5°	9141.1	9233.9	10172.0	11107.0	11632.1	11375.9	11260.7	11577.6	12557.4	12714.3	11119.8
55°	7620.2	7604.2	8894.5	10623.5	11817.8	12154.0	12083.5	12195.6	13290.6	13431.5	11180.6
57.5°	5212.5	5503.9	6618.1	8846.5	10681.1	11971.4	12045.1	11859.4	12435.7	12490.1	9746.2
60°	2811.2	2932.8	3829.3	5904.1	8132.5	9755.8	9947.9	9611.7	9566.9	9413.2	6957.5
62.5°	1117.4	1178.3	1687.3	2923.2	4431.3	5929.7	6342.7	6205.0	5910.5	5507.1	3602.0
65°	531.5	569.9	838.9	1367.2	1965.9	2471.8	2884.8	3012.9	2222.0	2001.1	1187.9
67.5°	361.8	390.6	611.5	781.2	701.2	733.2	954.1	886.9	521.9	445.0	329.8
70°	275.4	294.6	489.9	531.5	313.8	220.9	246.5	230.5	214.5	217.7	214.5
72.5°	195.3	211.3	358.6	313.8	137.7	102.5	131.3	156.9	156.9	156.9	153.7
75°	118.5	134.5	208.1	121.7	54.4	54.4	83.2	105.7	112.1	115.3	108.9
77.5°	60.8	76.8	70.4	35.2	35.2	41.6	60.8	73.6	80.0	80.0	76.8
80°	12.8	12.8	12.8	19.2	35.2	44.8	60.8	67.2	76.8	76.8	70.4
82.5°	0.0	3.2	9.6	19.2	32.0	41.6	57.6	67.2	76.8	80.0	73.6
85°	0.0	3.2	6.4	12.8	22.4	25.6	22.4	19.2	19.2	19.2	19.2
87.5°	0.0	0.0	3.2	3.2	3.2	6.4	6.4	6.4	6.4	6.4	6.4
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°	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2	4604.2
2.5°	4649.0	4658.6	4642.6	4639.4	4626.6	4665.0	4572.1	4549.7	4607.4	4552.9	4565.7
5°	4709.8	4732.2	4703.4	4655.4	4584.9	4476.1	4383.2	4261.6	4203.9	4162.3	4155.9
7.5°	4754.6	4770.6	4741.8	4588.1	4376.8	4101.5	3896.6	3746.1	3627.6	3592.4	3534.8
10°	4937.1	4940.3	4796.3	4456.9	4043.8	3682.0	3368.3	3137.7	3019.3	2945.6	2913.6
12.5°	5058.8	5052.4	4761.0	4197.5	3646.8	3166.6	2808.0	2529.4	2420.5	2385.3	2362.9
15°	5212.5	5177.3	4677.8	3931.8	3134.5	2615.9	2292.5	2100.4	2090.8	2068.3	2090.8
17.5°	5334.2	5234.9	4556.1	3448.3	2644.7	2154.8	1943.5	1956.3	1981.9	2004.3	2007.5
20°	5532.7	5327.8	4277.6	3025.7	2190.0	1847.4	1844.2	1901.9	1965.9	1991.5	2017.1
22.5°	5683.2	5366.2	3979.8	2574.2	1818.6	1722.6	1777.0	1863.4	1911.5	1937.1	1975.5
25°	5737.6	5260.5	3582.8	2122.8	1639.3	1664.9	1748.2	1805.8	1866.6	1895.5	1879.4
27.5°	5792.0	5206.1	3108.9	1748.2	1543.3	1626.5	1696.9	1754.6	1773.8	1812.2	1837.8
30°	5923.3	5017.2	2683.1	1511.2	1495.2	1600.9	1652.1	1671.3	1722.6	1745.0	1745.0
32.5°	6028.9	4943.5	2231.6	1399.2	1488.8	1613.7	1620.1	1620.1	1626.5	1610.5	1604.1
35°	6246.7	4690.6	1828.2	1331.9	1485.6	1616.9	1632.9	1578.5	1431.2	1373.6	1357.6
37.5°	6515.6	4527.3	1530.5	1315.9	1508.0	1655.3	1680.9	1476.0	1283.9	1191.1	1175.1
40°	6842.2	4412.1	1335.1	1309.5	1559.3	1745.0	1668.1	1396.0	1146.2	1011.8	1005.4
42.5°	7223.2	4306.4	1203.9	1306.3	1623.3	1837.8	1655.3	1328.7	1005.4	915.7	928.5
45°	7527.4	4248.8	1114.2	1283.9	1645.7	1892.3	1664.9	1210.3	947.7	890.1	896.5
47.5°	7764.3	4127.1	1040.6	1245.5	1642.5	1911.5	1578.5	1162.2	918.9	934.9	950.9
50°	7770.7	3963.8	947.7	1162.2	1594.5	1876.2	1479.2	1117.4	912.5	979.7	1011.8
52.5°	7684.3	3733.3	848.5	1043.8	1482.4	1754.6	1389.6	1098.2	883.7	877.3	915.7
55°	7376.9	3301.0	682.0	845.3	1251.9	1447.2	1309.5	1063.0	797.2	723.6	730.0
57.5°	5961.7	2366.1	502.7	605.1	886.9	1059.8	1181.5	1047.0	717.2	614.7	617.9
60°	3691.7	1341.5	368.2	413.0	547.5	643.6	957.3	973.3	640.4	518.7	512.3
62.5°	1895.5	662.8	285.0	291.4	336.2	377.8	656.4	816.5	579.5	493.1	493.1
65°	634.0	326.6	249.7	224.1	224.1	233.7	397.0	566.7	489.9	413.0	413.0
67.5°	272.2	243.3	217.7	195.3	179.3	169.7	224.1	329.8	365.0	313.8	301.0
70°	211.3	204.9	188.9	163.3	140.9	128.1	131.3	169.7	208.1	201.7	195.3
72.5°	156.9	156.9	150.5	128.1	108.9	92.9	86.4	89.6	99.3	102.5	105.7
75°	108.9	112.1	112.1	99.3	80.0	67.2	57.6	48.0	38.4	32.0	28.8
77.5°	73.6	76.8	83.2	73.6	60.8	44.8	35.2	25.6	16.0	6.4	6.4
80°	64.0	73.6	80.0	73.6	64.0	48.0	35.2	19.2	9.6	0.0	0.0
82.5°	67.2	73.6	83.2	70.4	60.8	44.8	35.2	22.4	9.6	3.2	0.0
85°	16.0	16.0	19.2	22.4	28.8	32.0	25.6	16.0	9.6	3.2	0.0
87.5°	6.4	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	0.0	0.0
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)