

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: P530255

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
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-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21965 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

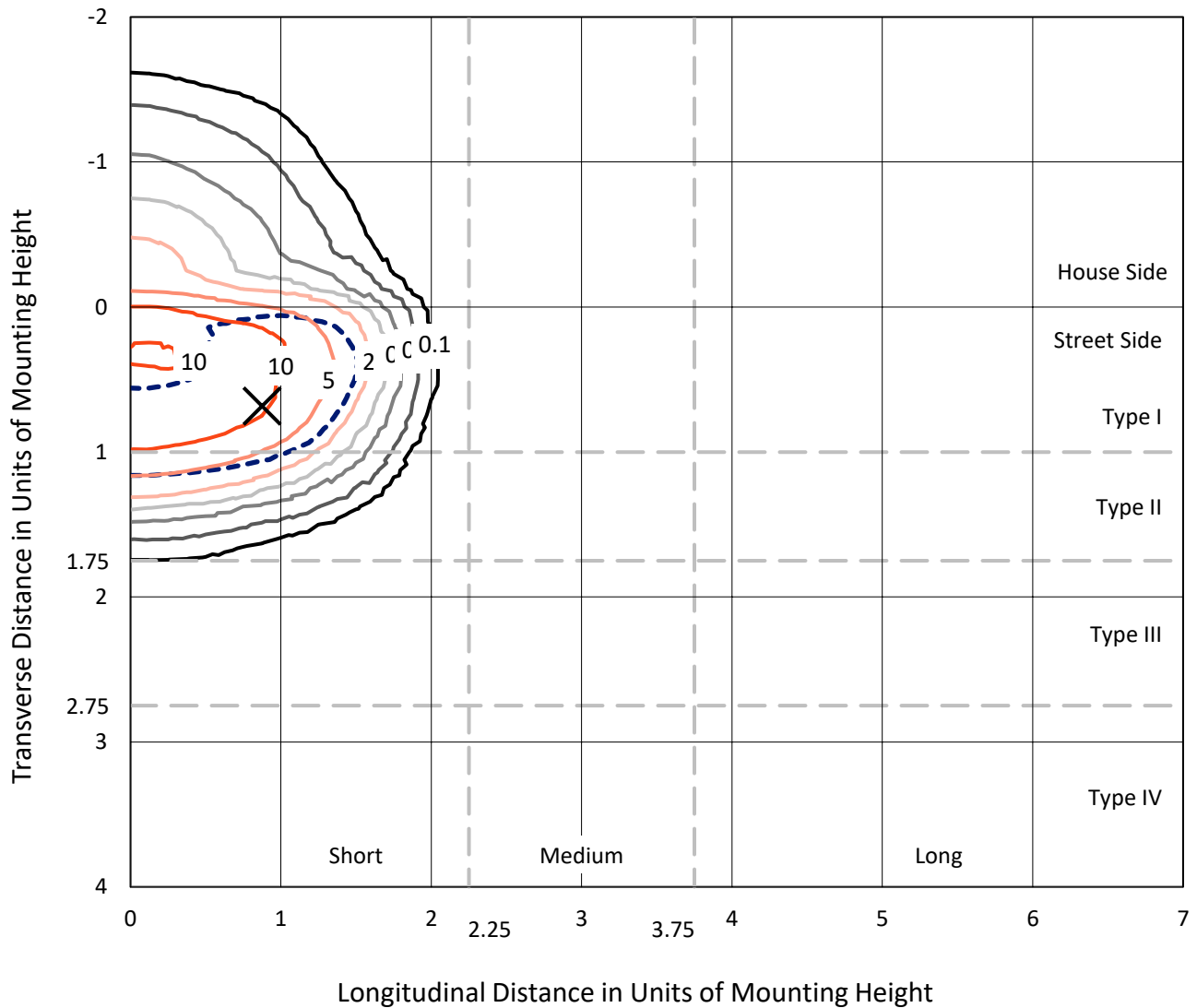
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

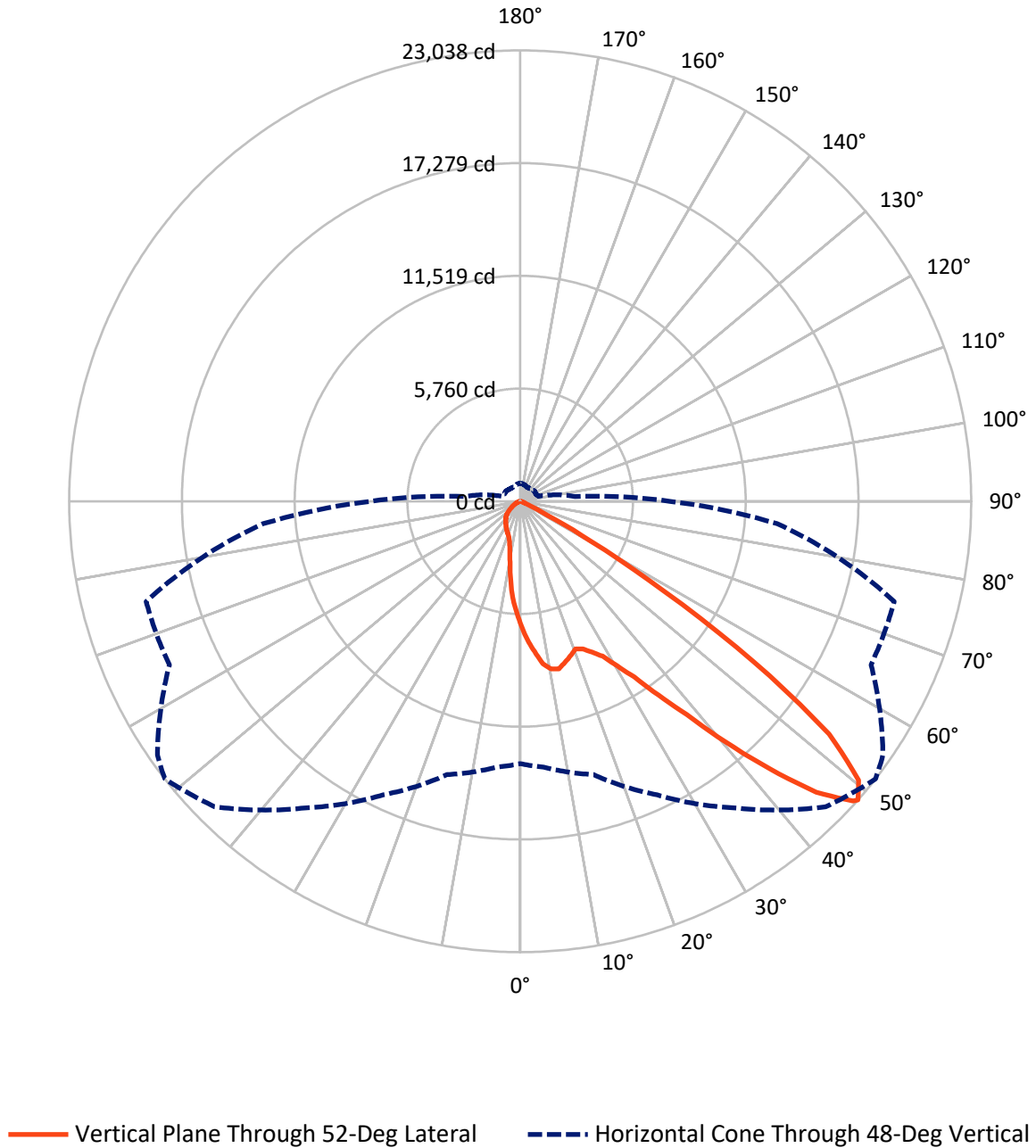
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2674.4	0.0	2674.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19290.6	0.0	19290.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	21965.0	0.0	21965.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.6	2.6
10°-20°	1517.3	6.9
20°-30°	2590.6	11.8
30°-40°	4770.5	21.7
40°-50°	7408.7	33.7
50°-60°	4458.8	20.3
60°-70°	515.7	2.3
70°-80°	99.8	0.5
80°-90°	23.1	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°	21965.0	100.0
0°-180°	21965.0	100.0

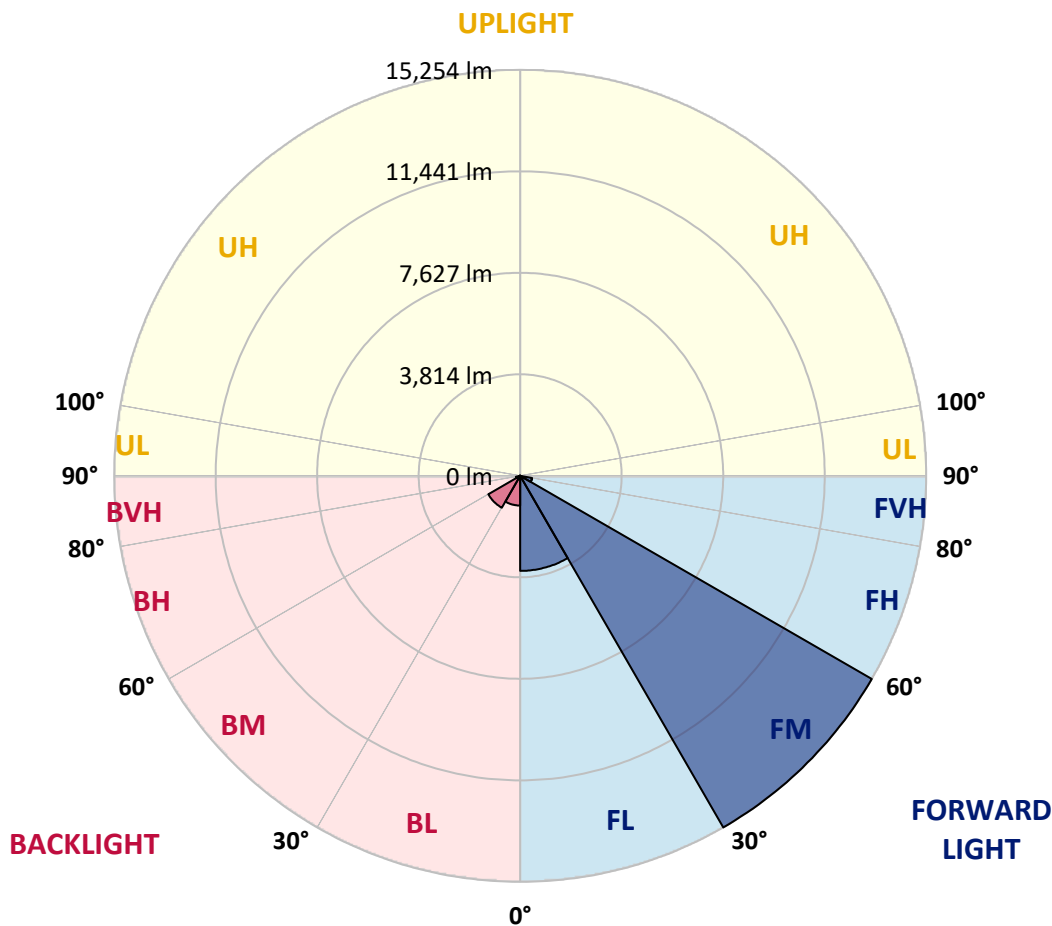


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.2	16.3			
FM (30°-60°)	15254.3	69.4			
FH (60°-80°)	454.1	2.1			G0/660
FVH (80°-90°)	11.0	0.0			G1/100
BL (0°-30°)	1117.2	5.1	B3/2500		
BM (30°-60°)	1383.7	6.3	B2/2500		
BH (60°-80°)	161.4	0.7	B1/500		G1/500
BVH (80°-90°)	12.1	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°	52°	55°	65°	75°	85°
0°	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1
2.5°	7688.0	7511.9	7527.9	7412.6	7345.3	7236.5	7089.2	7060.4	6900.3	6682.5	6461.6
5°	8379.6	8338.0	8392.4	8225.9	8232.3	8053.0	7707.2	7713.6	7345.3	6989.9	6647.3
7.5°	8424.4	8328.4	8382.8	8530.1	8616.5	8584.5	8389.2	8219.5	7870.5	7348.5	6849.0
10°	7543.9	7726.4	7784.0	8027.4	8373.2	8738.2	8715.8	8725.4	8434.0	7752.0	7021.9
12.5°	7015.5	6893.9	7089.2	7236.5	7758.4	8466.0	8789.4	8859.9	8882.3	8142.6	7194.9
15°	6775.4	6775.4	6807.4	6849.0	7226.9	7880.1	8539.7	8744.6	9228.1	8655.0	7467.0
17.5°	6925.9	6919.5	6964.3	6877.9	7018.7	7521.5	8309.1	8542.9	9615.6	9157.7	7681.6
20°	7383.8	7406.2	7377.4	7127.6	7137.2	7515.1	8053.0	8421.2	9878.1	9593.1	7966.5
22.5°	8021.0	8033.8	7870.5	7598.3	7518.3	7704.0	8200.3	8482.1	10089.4	10115.1	8053.0
25°	8757.4	8706.2	8674.2	8289.9	8046.6	8206.7	8533.3	8696.6	10220.7	10563.3	8299.5
27.5°	9778.9	9676.4	9481.1	9138.5	8959.1	8731.8	8965.6	9234.5	10595.4	11190.9	8568.5
30°	11287.0	11197.3	10816.3	10374.4	9903.7	9679.6	9753.2	9900.5	11271.0	11917.8	8923.9
32.5°	13557.2	13368.3	12817.5	11975.4	11335.0	10717.0	10697.8	10854.7	11876.2	12923.2	9346.6
35°	16057.9	16000.3	15190.2	14322.5	13083.3	12129.1	12145.1	12228.4	13035.3	14242.4	9900.5
37.5°	17719.8	18036.8	17521.2	16589.5	15548.8	14184.8	13839.0	13867.8	14626.7	15805.0	10899.5
40°	19003.8	18734.8	18795.6	18577.9	17867.1	16938.5	16173.2	16022.7	16467.8	17534.1	11892.2
42.5°	18443.4	18456.2	18830.9	19346.4	19522.5	19455.2	18674.0	18389.0	18043.2	18949.3	12836.7
45°	16861.6	17191.4	17678.1	19042.2	20239.7	21363.6	21209.9	20736.0	19131.8	20070.0	13381.1
47.5°	14338.5	14325.7	15123.0	16896.9	19557.7	22189.7	22887.8	22554.8	19903.5	19945.1	13269.0
48°	13406.7	13637.2	14460.2	16547.8	19125.4	22068.1	23038.3	22618.8	19772.2	19778.6	13173.0
50°	9910.1	9868.5	10893.1	13454.7	17082.6	20736.0	22404.3	22730.9	19769.0	18936.5	12500.5
52.5°	5235.2	5414.6	6160.6	8459.6	12077.9	16970.5	19762.6	20271.8	19071.0	17559.7	11533.5
55°	2225.4	2010.8	2584.0	3820.0	6794.6	11338.2	14498.6	15632.1	16125.2	15539.2	10089.4
57.5°	794.1	867.7	999.0	1437.7	2856.2	6205.4	8645.4	9525.9	11171.7	11402.3	6874.7
60°	509.1	518.7	560.3	659.6	1072.7	2391.9	4101.7	4803.0	5549.0	5728.3	3208.4
62.5°	393.8	397.0	416.3	432.3	509.1	928.6	1540.2	1825.1	1895.6	1629.8	842.1
65°	329.8	333.0	339.4	339.4	361.8	435.5	537.9	592.4	576.4	570.0	477.1
67.5°	253.0	259.4	272.2	272.2	285.0	265.8	297.8	317.0	358.6	435.5	406.7
70°	198.5	201.7	211.3	217.7	217.7	192.1	214.5	233.7	262.6	323.4	320.2
72.5°	153.7	160.1	166.5	166.5	156.9	131.3	153.7	169.7	188.9	224.1	217.7
75°	118.5	118.5	121.7	99.3	76.8	67.2	92.9	112.1	140.9	147.3	121.7
77.5°	32.0	35.2	32.0	28.8	32.0	48.0	60.8	70.4	89.7	89.7	80.0
80°	0.0	3.2	9.6	19.2	32.0	44.8	54.4	60.8	70.4	76.8	73.6
82.5°	0.0	3.2	9.6	19.2	28.8	35.2	48.0	51.2	57.6	67.2	67.2
85°	0.0	3.2	6.4	12.8	19.2	22.4	22.4	19.2	19.2	16.0	12.8
87.5°	0.0	0.0	3.2	6.4	6.4	9.6	9.6	9.6	9.6	9.6	9.6
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°	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1	6343.1
2.5°	6375.1	6275.9	6125.4	5888.4	5661.1	5513.8	5372.9	5216.0	5129.6	5123.2	5075.1
5°	6452.0	6227.9	5869.2	5462.6	5027.1	4652.5	4274.6	4028.1	3807.2	3685.5	3663.1
7.5°	6493.6	6202.2	5622.7	4940.7	4197.8	3586.2	3163.6	2853.0	2731.3	2641.6	2638.4
10°	6580.1	6157.4	5254.5	4249.0	3330.1	2712.1	2420.7	2279.8	2212.6	2187.0	2148.5
12.5°	6644.1	6074.2	4876.6	3538.2	2632.0	2247.8	2119.7	2087.7	2090.9	2103.7	2087.7
15°	6733.8	6000.5	4367.5	2904.2	2209.4	2023.7	2023.7	2030.1	2074.9	2081.3	2078.1
17.5°	6727.4	5856.4	3842.4	2391.9	1953.2	1927.6	1937.2	1998.0	2026.9	2036.5	2014.0
20°	6804.2	5721.9	3301.2	2042.9	1809.1	1847.5	1911.6	1927.6	1962.8	1969.2	1943.6
22.5°	6781.8	5385.7	2798.5	1767.5	1700.3	1773.9	1837.9	1857.1	1847.5	1828.3	1825.1
25°	6740.2	5097.6	2337.4	1585.0	1620.2	1700.3	1761.1	1725.9	1706.7	1709.9	1713.1
27.5°	6666.5	4732.5	1956.4	1456.9	1511.3	1629.8	1626.6	1613.8	1633.0	1617.0	1633.0
30°	6653.7	4367.5	1642.6	1341.6	1431.3	1517.7	1524.1	1546.6	1569.0	1540.2	1569.0
32.5°	6672.9	3967.3	1418.5	1271.2	1383.3	1386.5	1456.9	1479.3	1463.3	1399.3	1405.7
35°	6820.2	3659.9	1255.2	1232.8	1306.4	1309.6	1376.9	1348.0	1277.6	1239.2	1261.6
37.5°	7130.8	3403.7	1178.3	1197.5	1203.9	1245.6	1248.8	1191.1	1197.5	1194.3	1207.1
40°	7527.9	3208.4	1123.9	1165.5	1159.1	1187.9	1072.7	1104.7	1133.5	1143.1	1149.5
42.5°	7800.0	3067.5	1088.7	1114.3	1101.5	1050.3	986.2	1018.2	1040.6	1075.9	1082.3
45°	7921.7	2955.4	1047.0	1024.6	1024.6	931.8	906.2	912.6	963.8	1002.2	995.8
47.5°	7723.2	2846.6	973.4	906.2	928.6	851.7	822.9	822.9	877.3	925.4	915.8
48°	7646.3	2801.7	976.6	880.5	896.6	838.9	810.1	803.7	864.5	909.4	909.4
50°	7265.3	2635.2	893.4	810.1	778.1	771.7	752.5	758.9	797.3	838.9	838.9
52.5°	6522.4	2276.6	755.7	694.8	637.2	675.6	685.2	672.4	691.6	730.1	726.9
55°	5443.4	1748.3	605.2	576.4	531.5	573.2	592.4	576.4	557.1	586.0	586.0
57.5°	3487.0	941.4	483.5	489.9	445.1	486.7	502.7	464.3	429.1	451.5	448.3
60°	1572.2	563.5	397.0	387.4	358.6	406.7	432.3	387.4	339.4	355.4	371.4
62.5°	589.2	400.2	301.0	294.6	288.2	333.0	345.8	310.6	262.6	272.2	275.4
65°	432.3	352.2	240.1	217.7	230.5	262.6	256.2	220.9	188.9	188.9	195.3
67.5°	368.2	307.4	195.3	169.7	169.7	172.9	160.1	140.9	131.3	137.7	144.1
70°	288.2	243.4	153.7	131.3	118.5	105.7	92.9	89.7	80.0	89.7	86.5
72.5°	185.7	163.3	118.5	99.3	89.7	73.6	60.8	57.6	48.0	44.8	44.8
75°	99.3	99.3	92.9	80.0	70.4	57.6	48.0	38.4	25.6	19.2	19.2
77.5°	70.4	76.8	83.3	76.8	64.0	48.0	38.4	25.6	12.8	6.4	6.4
80°	67.2	76.8	83.3	73.6	64.0	48.0	35.2	19.2	9.6	3.2	3.2
82.5°	60.8	70.4	76.8	67.2	57.6	41.6	32.0	19.2	9.6	3.2	3.2
85°	12.8	16.0	19.2	19.2	22.4	28.8	22.4	16.0	6.4	3.2	3.2
87.5°	9.6	9.6	9.6	9.6	9.6	9.6	6.4	6.4	3.2	3.2	3.2
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)