

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: P454390

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30132 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

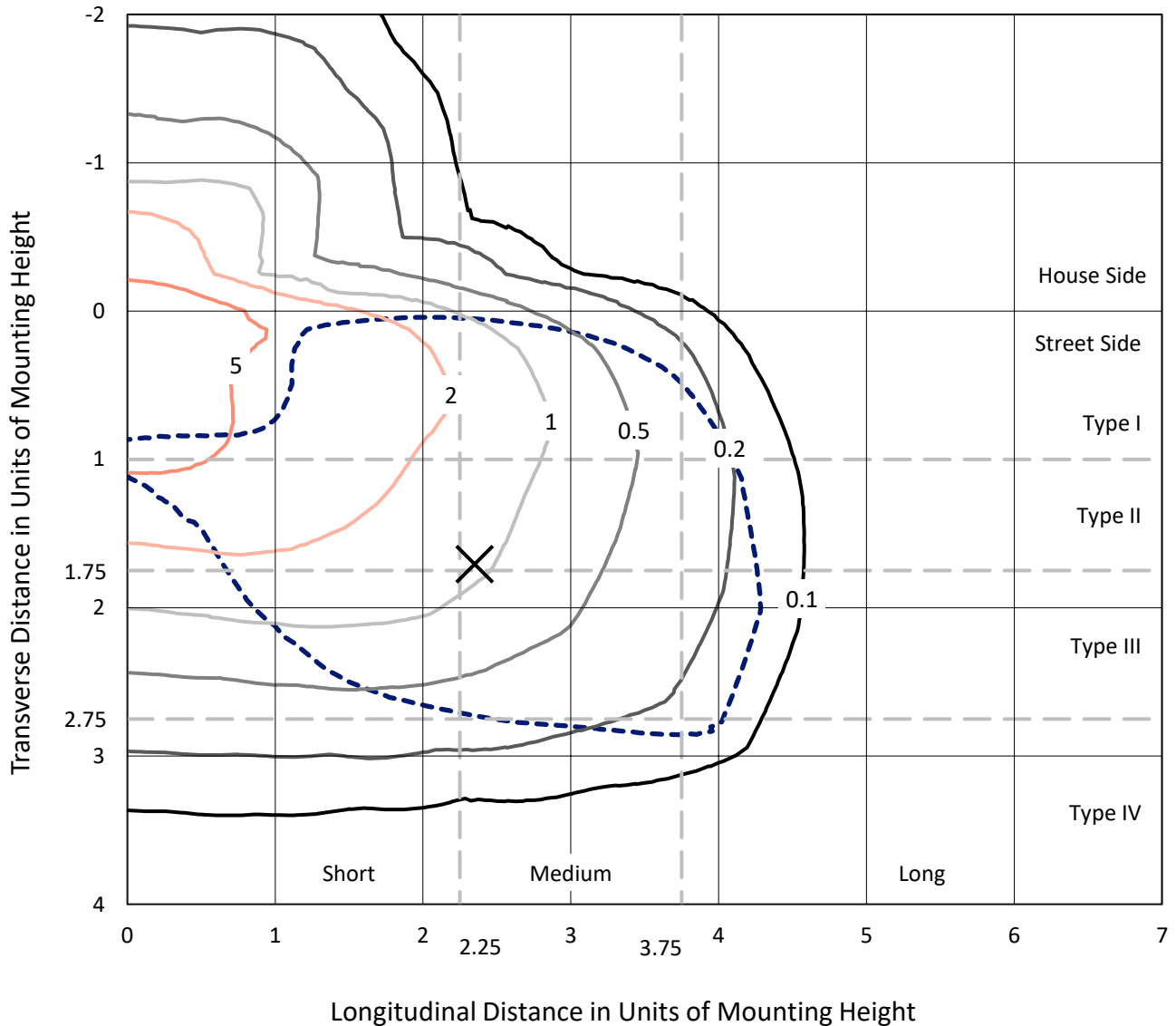
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

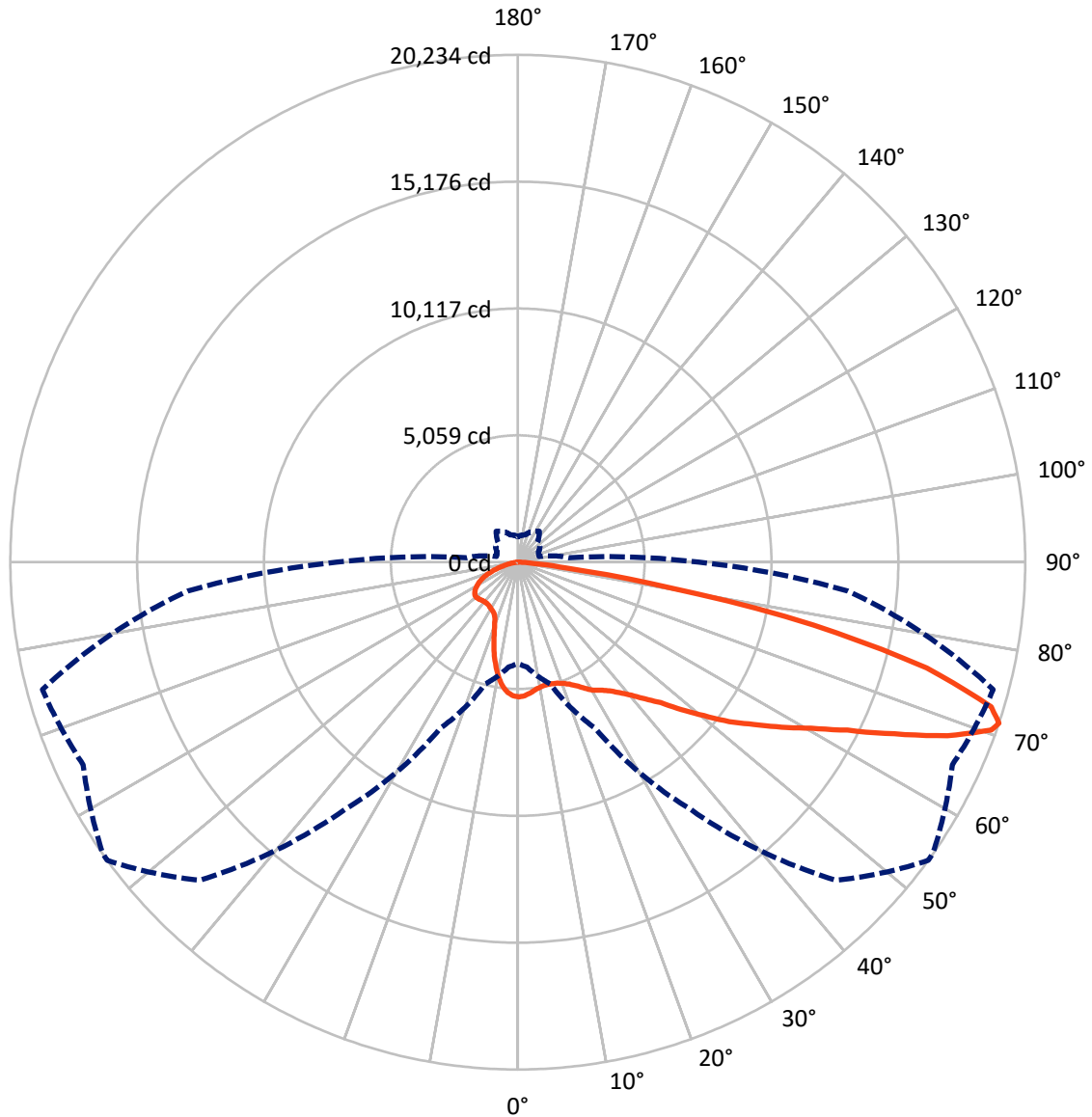
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5440.1	0.0	5440.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24691.9	0.0	24691.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	30132.0	0.0	30132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.1	1.6
10°-20°	1265.0	4.2
20°-30°	2106.3	7.0
30°-40°	3114.5	10.3
40°-50°	4386.9	14.6
50°-60°	5874.3	19.5
60°-70°	7404.1	24.6
70°-80°	5057.0	16.8
80°-90°	444.7	1.5
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°	30132.0	100.0
0°-180°	30132.0	100.0

Coefficient of Utilization



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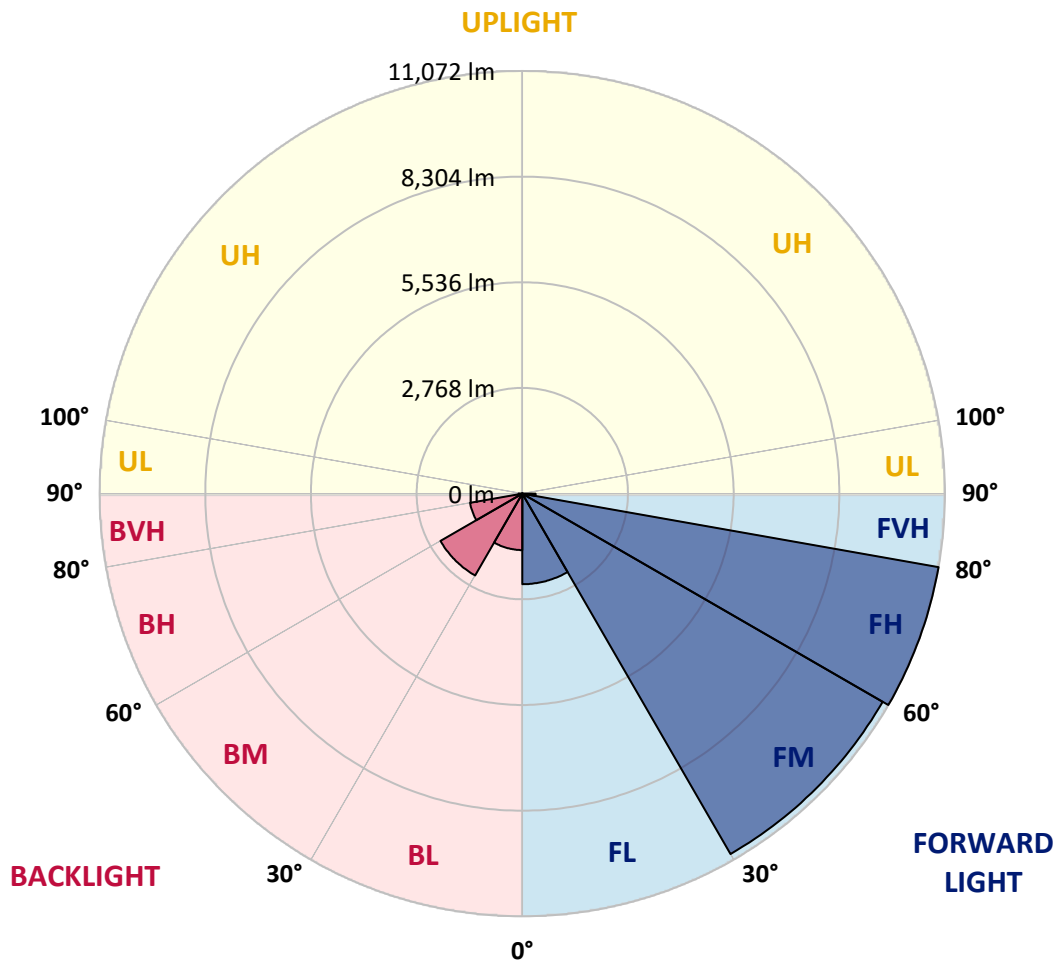
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2371.9	7.9			
FM	(30°-60°)	10900.7	36.2			
FH	(60°-80°)	11071.7	36.7			G4/12000
FVH	(80°-90°)	347.6	1.2			G3/500
BL	(0°-30°)	1478.5	4.9	B3/2500		
BM	(30°-60°)	2475.1	8.2	B2/2500		
BH	(60°-80°)	1389.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	97.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0
2.5°	5193.7	5218.1	5224.6	5240.9	5275.1	5302.8	5330.4	5327.2	5366.2	5382.5	5397.2
5°	4962.6	4969.1	4993.5	5026.1	5086.3	5162.8	5237.6	5239.3	5335.3	5411.8	5449.2
7.5°	4793.3	4814.5	4830.7	4864.9	4928.4	5011.4	5130.2	5140.0	5310.9	5462.3	5542.0
10°	4682.6	4707.0	4725.0	4767.3	4830.7	4923.5	5052.1	5070.0	5293.0	5542.0	5682.0
12.5°	4581.7	4606.1	4622.4	4677.8	4760.8	4874.7	5019.5	5040.7	5299.5	5634.8	5835.0
15°	4643.6	4663.1	4656.6	4672.9	4728.2	4858.4	5032.6	5053.7	5323.9	5724.3	5986.3
17.5°	4918.6	4934.9	4881.2	4819.4	4793.3	4889.3	5073.3	5096.0	5372.7	5817.1	6141.0
20°	5323.9	5367.9	5250.7	5112.3	4987.0	5000.0	5157.9	5182.3	5441.1	5909.9	6298.8
22.5°	5851.3	5883.8	5740.6	5512.7	5281.6	5162.8	5284.8	5299.5	5543.6	6030.3	6471.4
25°	6471.4	6490.9	6292.3	5999.4	5665.7	5441.1	5459.0	5485.0	5712.9	6167.0	6624.4
27.5°	7073.6	7135.4	6905.9	6547.9	6108.4	5734.1	5698.3	5714.5	5896.8	6243.5	6730.2
30°	7788.1	7783.2	7540.7	7125.7	6562.5	6053.1	5924.5	5921.2	5996.1	6280.9	6806.7
32.5°	8357.8	8424.5	8186.9	7734.4	7081.7	6383.5	6080.7	6074.2	6072.6	6346.1	6920.6
35°	9005.6	9015.3	8797.2	8341.5	7643.3	6798.5	6298.8	6266.3	6228.9	6486.0	7075.2
37.5°	9585.0	9630.6	9430.4	8919.3	8195.0	7229.8	6598.3	6577.2	6463.2	6728.5	7322.6
40°	10037.5	10071.6	9951.2	9464.6	8738.6	7695.3	6979.2	6940.1	6801.8	7125.7	7653.0
42.5°	10185.6	10255.6	10302.8	10063.5	9363.6	8247.1	7447.9	7399.1	7293.3	7727.9	8033.9
45°	10197.0	10307.7	10556.7	10568.1	9991.9	8907.9	7994.8	7960.6	7952.5	8499.4	8569.4
47.5°	10110.7	10223.0	10641.3	10867.6	10551.8	9575.2	8784.2	8730.5	8735.4	9453.2	9170.0
50°	9902.4	10035.8	10543.7	11059.6	10989.6	10268.6	9617.5	9599.6	9700.6	10542.0	9793.3
52.5°	9510.1	9671.3	10442.7	11180.1	11315.1	10865.9	10564.8	10514.4	10769.9	11723.7	10475.3
55°	8424.5	8667.0	10073.3	11246.8	11624.4	11437.2	11417.7	11508.8	11847.4	13012.7	11225.6
57.5°	7858.1	8040.4	9270.9	11258.2	12015.0	12101.3	12413.8	12436.6	13029.0	14381.6	12073.6
60°	7548.9	7710.0	8831.4	11183.3	12560.3	12923.2	13432.7	13514.0	14183.0	15864.3	12952.5
62.5°	7278.7	7417.0	8567.7	10924.5	13175.5	14142.3	14752.7	14791.7	15493.2	17501.7	13820.0
65°	6642.3	6800.2	8037.1	10665.7	13706.1	15665.7	16504.0	16458.4	16888.1	18914.5	14363.7
67.5°	5784.5	5984.7	7045.9	9772.2	13968.1	17330.8	18476.6	18419.7	18265.0	19840.6	14519.9
70°	4689.1	4796.6	5778.0	8227.6	12921.6	18204.8	20034.2	19974.0	19117.9	19962.6	13781.0
71°	4034.8	4202.5	5030.9	7308.0	12050.8	17937.9	20234.4	20218.2	19119.5	19625.7	13224.3
72.5°	3149.4	3252.0	3984.4	5662.5	10242.5	16421.0	19739.7	19801.5	18704.5	18689.8	12076.9
75°	1992.2	2037.8	2500.0	3333.3	5620.1	11629.3	16850.6	17018.3	16608.1	15297.9	8981.2
77.5°	1157.2	1215.8	1497.4	1964.5	2428.4	6311.9	12057.3	12239.6	11539.8	8422.9	3676.8
80°	673.8	738.9	986.3	1141.0	1114.9	2342.1	6139.3	6450.2	4996.8	2127.3	1031.9
82.5°	374.4	418.3	693.4	695.0	594.1	765.0	1932.0	2021.5	1425.8	857.8	421.6
85°	271.8	307.6	447.6	405.3	284.8	328.8	672.2	704.8	576.2	361.3	136.7
87.5°	96.0	136.7	245.8	195.3	78.1	68.4	193.7	157.9	146.5	100.9	30.9
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°	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0	5376.0
2.5°	5405.3	5408.5	5392.3	5363.0	5333.7	5296.2	5253.9	5221.4	5206.7	5205.1	5203.5
5°	5463.9	5472.0	5410.2	5319.0	5218.1	5094.4	4988.6	4868.2	4837.3	4788.4	4803.1
7.5°	5558.3	5553.4	5431.3	5237.6	5001.6	4739.6	4518.2	4389.7	4256.2	4218.8	4220.4
10°	5693.4	5662.5	5431.3	5071.6	4677.8	4288.8	3979.5	3784.2	3678.4	3590.5	3558.0
12.5°	5836.6	5758.5	5379.3	4838.9	4261.1	3784.2	3452.2	3188.5	3120.1	3048.5	3050.1
15°	5973.3	5843.1	5276.7	4511.7	3811.9	3245.5	2923.2	2765.3	2744.2	2752.3	2750.7
17.5°	6097.0	5903.3	5120.5	4147.1	3287.8	2783.2	2612.3	2623.7	2680.7	2721.4	2726.2
20°	6222.4	5939.1	4887.7	3658.9	2793.0	2503.3	2509.8	2599.3	2685.6	2740.9	2749.0
22.5°	6341.2	5955.4	4614.3	3186.9	2434.9	2384.4	2480.5	2576.5	2661.1	2714.9	2723.0
25°	6419.3	5918.0	4226.9	2693.7	2259.1	2342.1	2443.0	2524.4	2596.0	2651.4	2664.4
27.5°	6440.5	5797.5	3746.8	2294.9	2177.7	2301.4	2394.2	2454.4	2509.8	2561.9	2571.6
30°	6429.1	5620.1	3219.4	2060.6	2130.5	2254.2	2325.9	2369.8	2436.5	2477.2	2485.4
32.5°	6411.2	5413.4	2669.3	1935.2	2091.5	2210.3	2252.6	2291.7	2290.0	2273.8	2285.2
35°	6417.7	5166.0	2223.3	1860.4	2057.3	2177.7	2213.5	2164.7	2024.7	2018.2	2011.7
37.5°	6451.8	4921.9	1899.4	1808.3	2039.4	2172.9	2192.4	1967.8	1844.1	1787.1	1772.5
40°	6539.7	4637.1	1686.2	1769.2	2037.8	2210.3	2096.4	1868.5	1630.9	1520.2	1512.0
42.5°	6656.9	4357.1	1556.0	1744.8	2057.3	2267.3	2057.3	1728.5	1469.7	1404.6	1394.9
45°	6831.1	4036.5	1484.4	1733.4	2086.6	2288.4	2044.3	1626.0	1404.6	1352.5	1352.5
47.5°	7028.0	3730.5	1445.3	1725.3	2124.0	2273.8	1928.7	1593.4	1373.7	1380.2	1411.1
50°	7223.3	3465.2	1416.0	1707.4	2156.6	2265.6	1881.5	1591.8	1381.8	1464.8	1520.2
52.5°	7449.6	3278.0	1380.2	1678.1	2156.6	2213.5	1866.9	1624.4	1404.6	1429.0	1453.5
55°	7723.0	3219.4	1334.6	1614.6	2117.5	2083.3	1858.7	1671.6	1420.9	1363.9	1373.7
57.5°	8084.3	3313.8	1290.7	1534.8	2028.0	1948.2	1855.5	1684.6	1383.5	1336.3	1326.5
60°	8504.3	3501.0	1277.7	1453.5	1905.9	1832.7	1835.9	1647.1	1331.4	1282.6	1290.7
62.5°	8798.9	3613.3	1269.5	1391.6	1772.5	1705.7	1788.7	1601.6	1308.6	1266.3	1274.4
65°	8798.9	3476.6	1194.7	1297.2	1599.9	1552.7	1731.8	1544.6	1279.3	1230.5	1222.3
67.5°	8465.2	3077.8	1080.7	1155.6	1409.5	1378.6	1652.0	1476.2	1235.4	1197.9	1178.4
70°	7596.1	2334.0	937.5	989.6	1168.6	1196.3	1549.5	1383.5	1162.1	1116.5	1087.2
71°	7213.6	2032.9	877.3	905.0	1075.9	1116.5	1500.7	1344.4	1129.6	1064.5	1012.4
72.5°	6476.3	1712.2	786.1	797.5	919.6	992.8	1398.1	1269.5	1067.7	974.9	916.3
75°	4920.3	1250.0	633.1	626.6	680.3	787.8	1183.3	1131.2	935.9	810.5	776.4
77.5°	2125.7	680.3	473.6	478.5	462.2	597.3	931.0	971.7	802.4	659.2	628.3
80°	644.5	392.3	323.9	330.4	309.2	400.4	655.9	761.7	644.5	512.7	470.4
82.5°	330.4	234.4	221.4	218.1	196.9	226.2	397.1	520.8	460.6	320.6	283.2
85°	143.2	125.3	109.0	105.8	92.8	81.4	141.6	260.4	244.1	179.0	170.9
87.5°	35.8	32.6	21.2	19.5	11.4	1.6	0.0	0.0	0.0	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)