

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638283

Luminaire Tested: GWS-SA4E-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31110.5 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

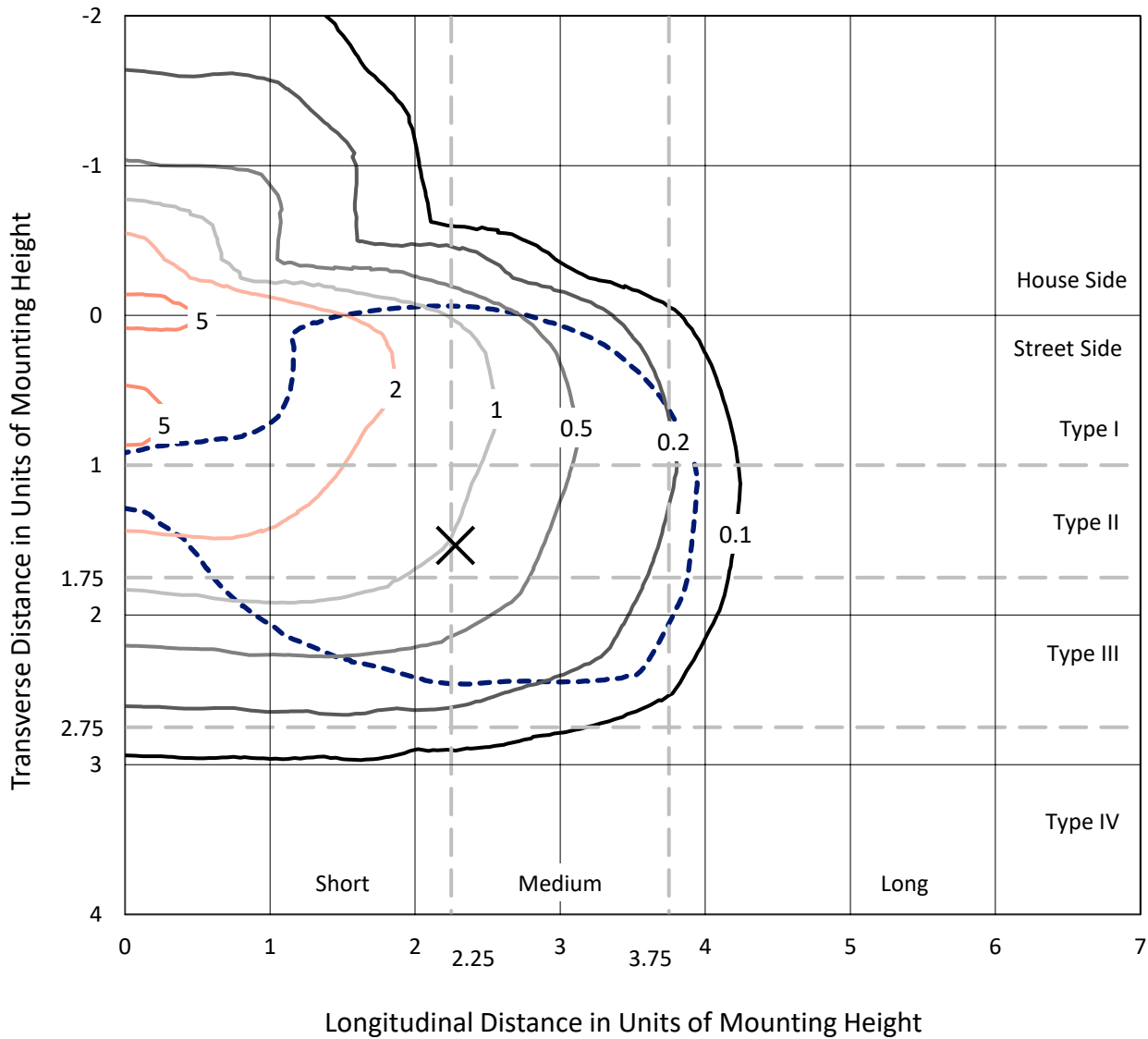
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

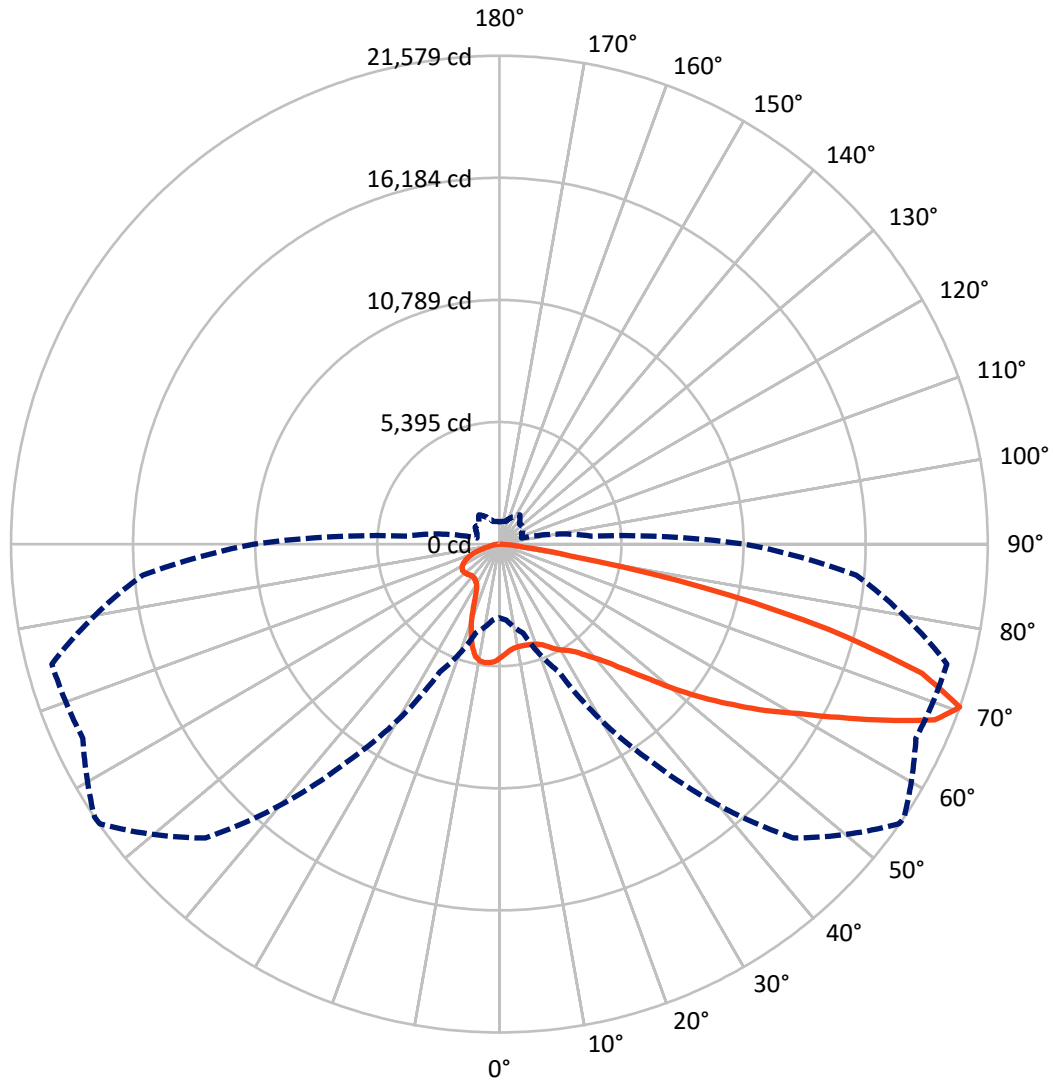
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5981.0	0.0	5981.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	25129.5	0.0	25129.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	31110.5	0.0	31110.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	1.5
10°-20°	1259.1	4.0
20°-30°	2081.7	6.7
30°-40°	3112.4	10.0
40°-50°	4631.7	14.9
50°-60°	6584.9	21.2
60°-70°	8155.6	26.2
70°-80°	4503.3	14.5
80°-90°	317.2	1.0
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°	31110.5	100.0
0°-180°	31110.5	100.0

Coefficient of Utilization



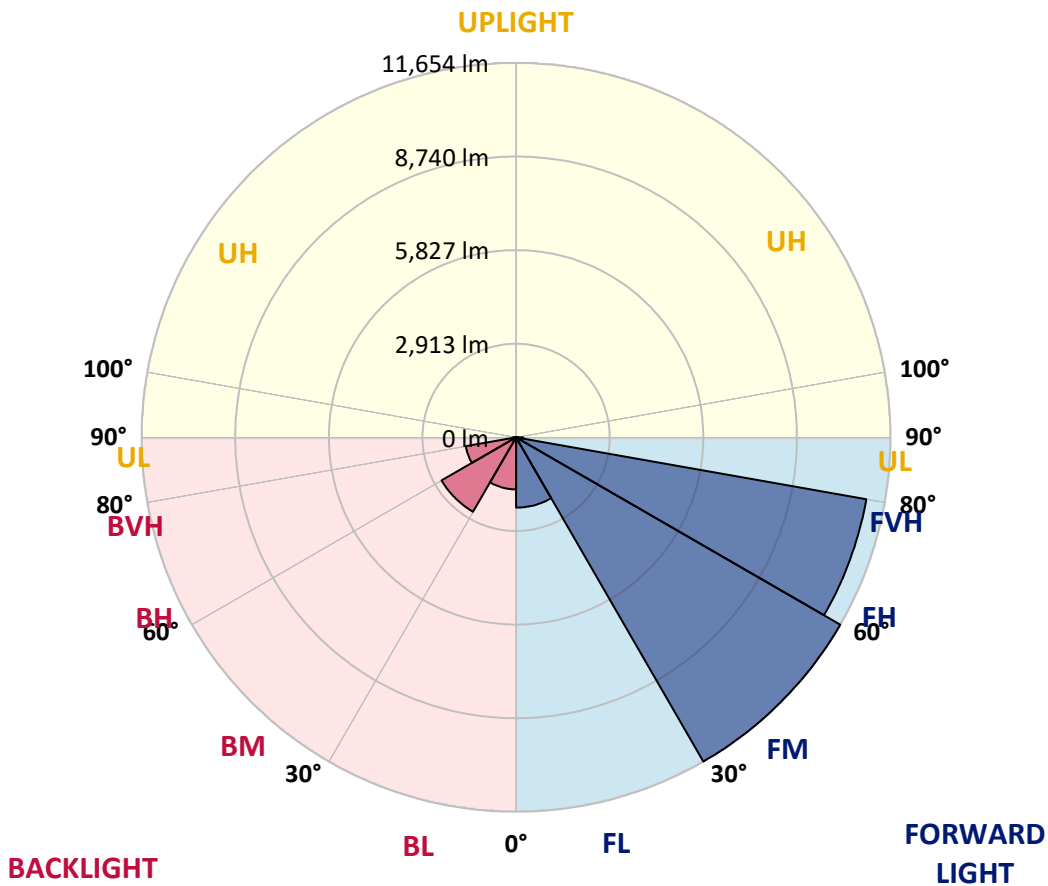
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2186.4	7.0			
FM (30°-60°)	11653.5	37.5			
FH (60°-80°)	11069.1	35.6			G4/12000
FVH (80°-90°)	220.4	0.7			G2/225
BL (0°-30°)	1619.1	5.2	B3/2500		
BM (30°-60°)	2675.4	8.6	B3/5000		
BH (60°-80°)	1589.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	96.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7
2.5°	4699.2	4672.9	4703.6	4719.0	4758.5	4815.5	4866.0	4868.1	4894.5	4958.1	5019.5
5°	4486.4	4473.3	4482.0	4528.1	4569.8	4642.2	4719.0	4725.5	4800.1	4925.2	5048.0
7.5°	4321.9	4304.3	4337.2	4396.5	4449.1	4530.3	4631.2	4640.0	4745.3	4934.0	5122.6
10°	4084.9	4071.8	4133.2	4212.2	4326.3	4460.1	4593.9	4604.9	4743.1	4991.0	5254.3
12.5°	3981.8	3981.8	4008.2	4082.7	4207.8	4385.5	4587.3	4604.9	4778.2	5078.8	5423.2
15°	4142.0	4153.0	4131.0	4126.6	4177.1	4346.0	4596.1	4622.4	4844.0	5168.7	5589.9
17.5°	4464.5	4475.4	4418.4	4328.5	4278.0	4383.3	4629.0	4657.5	4914.2	5267.4	5769.8
20°	4916.4	4929.6	4804.5	4666.3	4493.0	4490.8	4692.6	4719.0	5004.2	5374.9	5960.7
22.5°	5445.1	5453.9	5295.9	5076.6	4811.1	4690.4	4802.3	4828.7	5120.4	5524.1	6166.9
25°	6057.2	6083.5	5892.7	5574.6	5214.8	4964.7	4984.4	5015.1	5328.9	5723.7	6410.4
27.5°	6711.0	6743.9	6524.5	6173.5	5677.7	5267.4	5219.2	5245.5	5550.4	5846.6	6539.9
30°	7380.1	7404.2	7184.8	6783.4	6175.7	5609.7	5416.6	5432.0	5647.0	5905.8	6671.5
32.5°	8123.8	8104.1	7893.5	7430.6	6750.5	6019.9	5600.9	5596.5	5754.5	6024.3	6860.2
35°	8821.5	8850.0	8626.2	8115.0	7382.3	6526.7	5877.3	5859.8	5982.6	6217.4	7125.6
37.5°	9666.1	9657.3	9389.7	8836.8	8016.3	7011.5	6265.6	6234.9	6278.8	6517.9	7496.4
40°	10269.4	10330.8	10157.5	9642.0	8757.8	7608.3	6719.7	6651.7	6662.7	6888.7	7992.2
42.5°	10763.0	10820.0	10837.6	10508.5	9606.9	8345.4	7285.8	7217.8	7224.3	7544.6	8602.1
45°	11142.5	11219.3	11467.2	11370.7	10563.4	9196.6	8051.4	7981.2	7985.6	8341.0	9339.2
47.5°	11298.3	11381.7	11884.1	12114.4	11579.1	10214.5	9003.5	8900.4	8915.8	9308.5	10181.6
50°	11247.8	11359.7	12039.8	12687.0	12430.3	11250.0	10142.1	10069.8	10010.5	10580.9	11096.5
52.5°	10813.5	10936.3	12024.5	13051.2	13125.8	12228.5	11318.1	11276.4	11263.2	11932.3	12118.8
55°	9534.5	9740.7	11495.8	13147.7	13669.9	13149.9	12592.7	12522.5	12590.5	13380.3	13152.1
57.5°	8825.8	8979.4	10460.3	13040.2	14115.2	14027.5	13865.1	13871.7	13948.5	14953.3	14404.8
60°	8422.2	8602.1	9885.5	12746.2	14543.0	15093.7	15196.8	15196.8	15335.0	16649.1	15677.2
62.5°	7886.9	8069.0	9348.0	12180.2	14937.9	16348.5	16870.7	16864.1	16918.9	18467.8	16921.1
65°	6800.9	6969.8	8268.6	11287.3	15131.0	17730.7	18772.7	18753.0	18643.3	20086.9	17743.8
67.5°	4938.3	5098.5	6333.6	9589.3	14435.5	18845.1	20731.8	20740.6	20084.7	21107.0	17787.7
70°	3255.7	3365.4	4071.8	6228.3	11739.3	18364.7	21552.3	21578.7	20306.2	20470.8	15830.8
72.5°	2031.5	2108.3	2542.7	3714.2	6936.9	14536.4	19446.2	19518.6	18268.2	17989.5	13007.3
75°	1349.2	1401.9	1691.5	2165.3	3209.6	7867.1	14782.1	15014.7	14641.7	14102.0	9062.8
77.5°	811.7	855.6	1077.2	1375.5	1421.6	3073.6	8628.4	9229.5	9282.2	7362.5	3795.4
80°	370.8	421.2	594.5	785.4	756.9	1070.6	3042.9	3183.3	3755.9	2338.6	1197.8
82.5°	219.4	241.3	394.9	390.5	322.5	519.9	1094.7	1123.2	954.3	855.6	511.2
85°	87.8	103.1	166.7	147.0	118.5	168.9	412.4	432.2	414.6	373.0	188.7
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	37.3	39.5	57.0	103.1	57.0
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°	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7	5021.7
2.5°	5059.0	5045.8	5111.7	5162.1	5184.1	5206.0	5186.3	5179.7	5179.7	5135.8	5113.9
5°	5113.9	5120.4	5210.4	5252.1	5252.1	5234.5	5181.9	5144.6	5131.4	5074.4	5059.0
7.5°	5217.0	5245.5	5328.9	5326.7	5265.2	5168.7	5037.1	4936.2	4844.0	4804.5	4780.4
10°	5385.9	5423.2	5480.2	5388.1	5217.0	4962.5	4683.9	4464.5	4332.8	4227.5	4227.5
12.5°	5579.0	5614.1	5603.1	5390.3	5037.1	4561.0	4159.5	3907.2	3723.0	3626.4	3626.4
15°	5772.0	5800.5	5682.1	5289.4	4661.9	4027.9	3589.1	3286.4	3126.2	3036.3	3036.3
17.5°	5967.3	5965.1	5715.0	5056.8	4172.7	3437.8	3007.8	2773.0	2718.2	2702.8	2700.6
20°	6155.9	6105.5	5673.3	4668.5	3604.5	2843.2	2571.2	2586.5	2667.7	2702.8	2707.2
22.5°	6368.7	6243.7	5550.4	4172.7	2959.5	2430.8	2448.3	2575.6	2694.0	2746.7	2753.3
25°	6585.9	6362.2	5344.2	3591.3	2419.8	2279.4	2415.4	2558.0	2691.8	2759.9	2766.4
27.5°	6673.7	6362.2	4993.2	2917.8	2132.4	2215.8	2365.0	2503.2	2643.6	2722.6	2737.9
30°	6746.1	6307.3	4501.8	2310.1	2014.0	2154.4	2283.8	2411.0	2549.2	2645.8	2663.3
32.5°	6847.0	6259.0	3907.2	1941.6	1959.1	2095.1	2185.1	2292.6	2417.6	2481.2	2474.7
35°	6965.5	6184.5	3189.9	1766.0	1913.0	2044.7	2108.3	2171.9	2114.9	2112.7	2119.3
37.5°	7134.4	6118.6	2564.6	1687.1	1882.3	2009.6	2062.2	1926.2	1847.2	1814.3	1801.1
40°	7377.9	6092.3	2022.7	1641.0	1877.9	2007.4	1970.1	1759.5	1652.0	1537.9	1535.7
42.5°	7685.0	6072.6	1671.7	1619.1	1893.3	2057.8	1842.8	1649.8	1428.2	1377.7	1373.3
45°	8079.9	6041.9	1496.2	1614.7	1930.6	2097.3	1829.7	1498.4	1347.0	1325.1	1325.1
47.5°	8556.0	5993.6	1417.2	1614.7	1972.3	2079.8	1790.2	1465.5	1309.7	1333.9	1349.2
50°	9102.3	5932.2	1375.5	1610.3	2014.0	2079.8	1706.8	1458.9	1301.0	1426.0	1476.5
52.5°	9685.8	5862.0	1347.0	1592.7	2042.5	2082.0	1711.2	1480.8	1309.7	1447.9	1489.6
55°	10330.8	5851.0	1307.5	1555.4	2051.2	2024.9	1722.2	1529.1	1322.9	1311.9	1314.1
57.5°	11144.7	5982.6	1279.0	1500.6	2016.1	1908.6	1744.1	1564.2	1307.5	1309.7	1325.1
60°	11995.9	6230.5	1303.1	1447.9	1943.7	1799.0	1759.5	1546.7	1232.9	1197.8	1202.2
62.5°	12719.9	6419.2	1322.9	1423.8	1838.4	1702.4	1744.1	1507.2	1191.3	1182.5	1202.2
65°	13022.7	6263.4	1274.6	1373.3	1684.9	1584.0	1711.2	1456.7	1156.2	1123.2	1125.4
67.5°	12687.0	5532.9	1180.3	1261.5	1511.6	1432.6	1658.5	1390.9	1107.9	1068.4	1059.6
70°	10837.6	4065.2	1017.9	1083.8	1301.0	1254.9	1577.4	1305.3	1031.1	1002.6	982.8
72.5°	8733.7	2878.3	844.6	862.2	1020.1	1057.4	1437.0	1197.8	943.4	862.2	833.7
75°	6079.1	1807.7	704.2	686.7	737.1	807.3	1121.1	993.8	813.9	728.4	702.0
77.5°	2615.1	928.0	550.7	541.9	491.4	559.4	860.0	829.3	682.3	583.6	568.2
80°	875.3	537.5	397.1	381.7	326.9	392.7	605.5	662.5	535.3	432.2	405.9
82.5°	438.8	311.5	252.3	228.2	219.4	247.9	357.6	412.4	370.8	298.4	252.3
85°	215.0	177.7	138.2	136.0	114.1	107.5	149.2	175.5	166.7	122.9	116.3
87.5°	79.0	70.2	43.9	35.1	21.9	15.4	8.8	8.8	6.6	6.6	6.6
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)