

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: P638888

Luminaire Tested: GWS-SA4F-760-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638888
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-SA4F-760-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34896.9 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 225.3
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

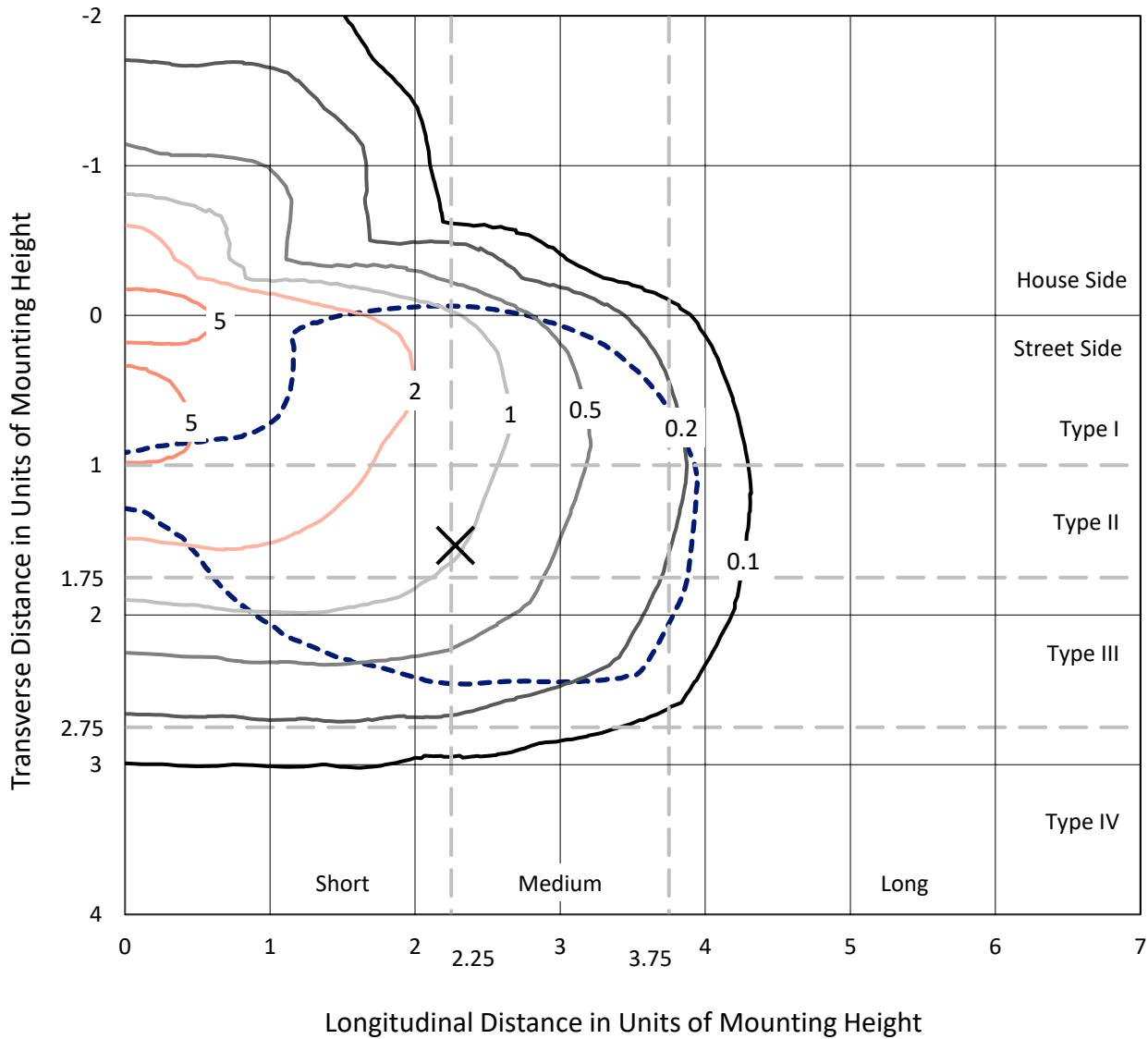


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Iso-Footcandle Lines of Horizontal Illumination

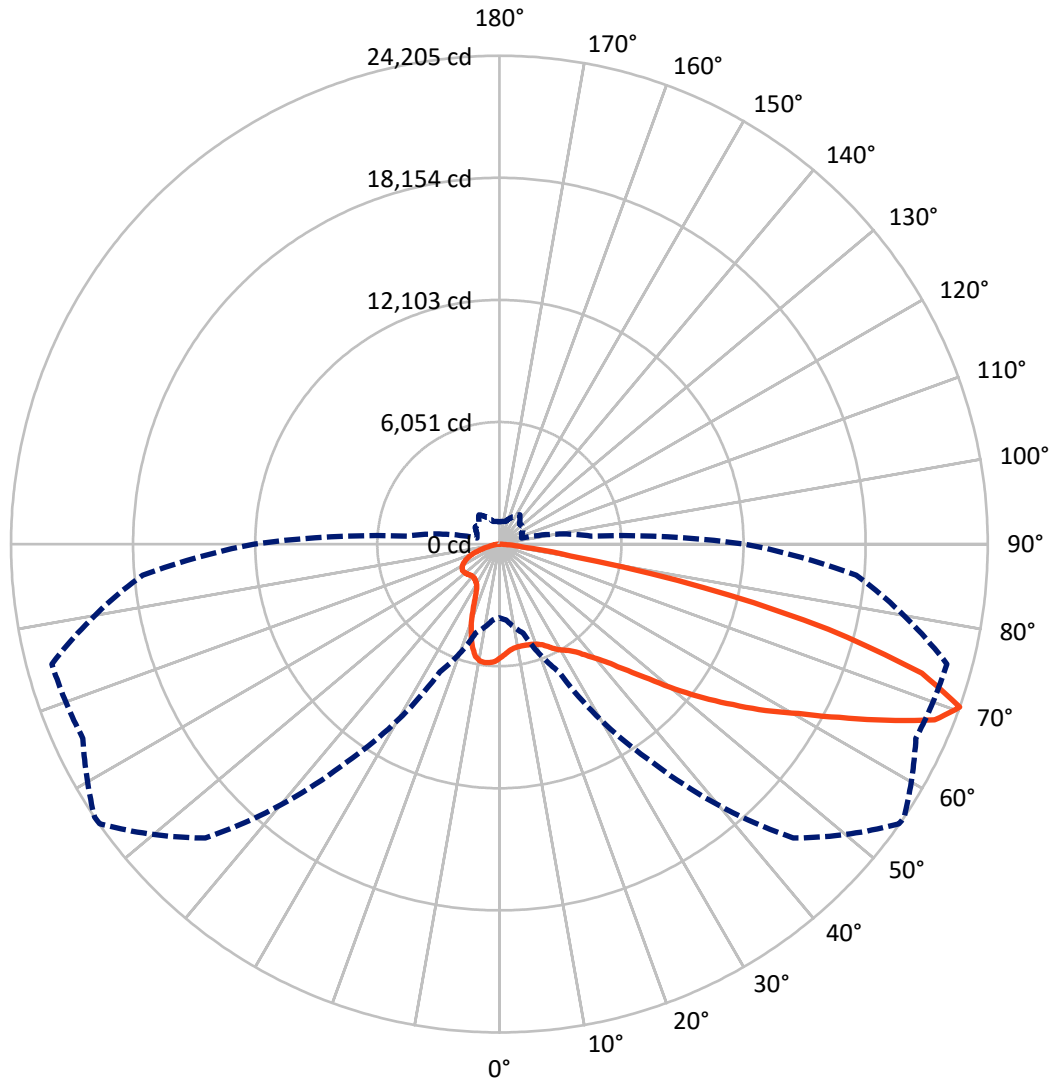
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	6709.0	0.0	6709.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	28187.9	0.0	28187.9
	% Fixture	80.8	0.0	80.8
Total	Lumens	34896.9	0.0	34896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.3	1.5
10°-20°	1412.4	4.0
20°-30°	2335.0	6.7
30°-40°	3491.2	10.0
40°-50°	5195.4	14.9
50°-60°	7386.3	21.2
60°-70°	9148.2	26.2
70°-80°	5051.3	14.5
80°-90°	355.8	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°	34896.9	100.0
0°-180°	34896.9	100.0

Coefficient of Utilization



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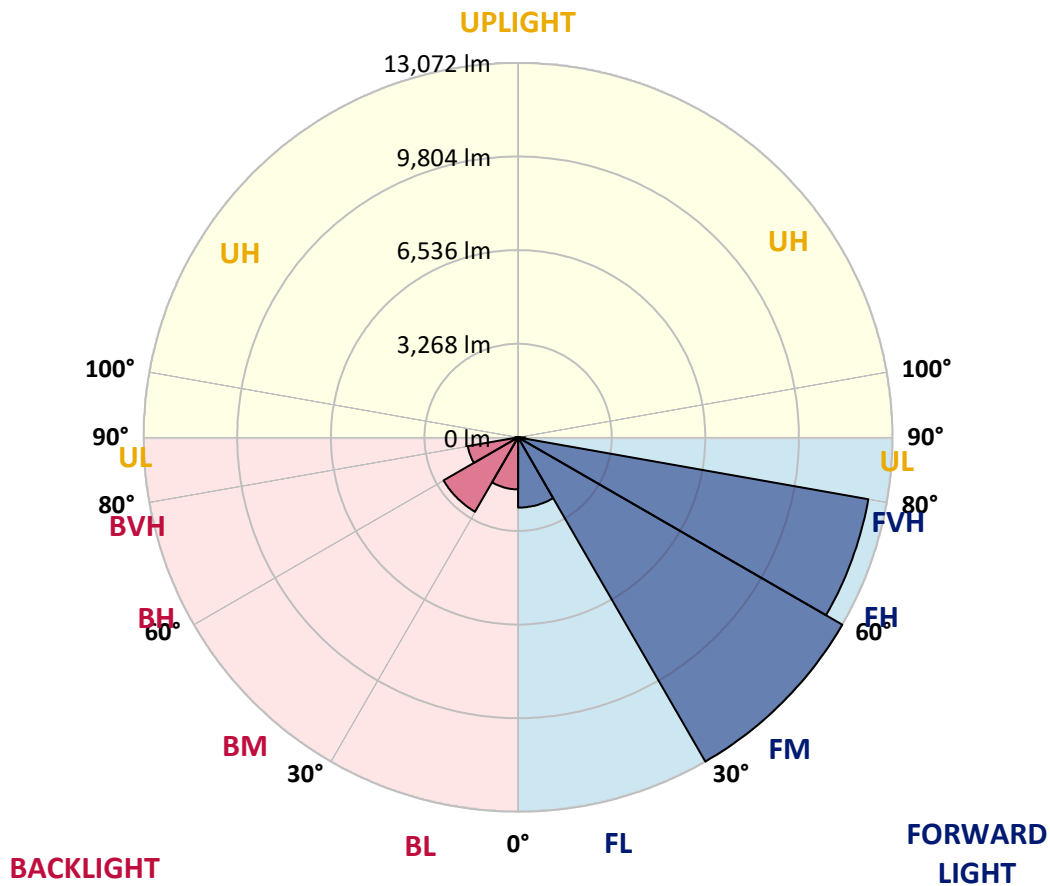
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.5	7.0			
FM (30°-60°)	13071.9	37.5			
FH (60°-80°)	12416.3	35.6			G5
FVH (80°-90°)	247.2	0.7			G3/500
BL (0°-30°)	1816.2	5.2	B3/2500		
BM (30°-60°)	3001.1	8.6	B3/5000		
BH (60°-80°)	1783.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	108.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9
2.5°	5271.2	5241.6	5276.1	5293.3	5337.6	5401.6	5458.2	5460.6	5490.2	5561.5	5630.4
5°	5032.4	5017.7	5027.5	5079.2	5126.0	5207.2	5293.3	5300.7	5384.4	5524.6	5662.4
7.5°	4847.9	4828.2	4865.1	4931.6	4990.6	5081.7	5194.9	5204.7	5322.8	5534.5	5746.1
10°	4582.1	4567.3	4636.3	4724.8	4852.8	5002.9	5153.0	5165.3	5320.4	5598.4	5893.7
12.5°	4466.5	4466.5	4496.0	4579.7	4719.9	4919.2	5145.6	5165.3	5359.7	5696.9	6083.2
15°	4646.1	4658.4	4633.8	4628.9	4685.5	4875.0	5155.5	5185.0	5433.6	5797.8	6270.3
17.5°	5007.8	5020.1	4956.2	4855.3	4798.7	4916.8	5192.4	5224.4	5512.3	5908.5	6472.0
20°	5514.8	5529.5	5389.3	5234.2	5039.8	5037.4	5263.8	5293.3	5613.2	6029.1	6686.1
22.5°	6107.8	6117.7	5940.5	5694.4	5396.7	5261.3	5386.8	5416.3	5743.6	6196.4	6917.5
25°	6794.4	6824.0	6609.9	6253.0	5849.5	5568.9	5591.1	5625.5	5977.4	6420.4	7190.6
27.5°	7527.8	7564.7	7318.6	6924.8	6368.7	5908.5	5854.4	5883.9	6226.0	6558.2	7335.8
30°	8278.3	8305.4	8059.3	7609.0	6927.3	6292.4	6075.9	6093.1	6334.2	6624.6	7483.5
32.5°	9112.5	9090.4	8854.2	8334.9	7572.0	6752.6	6282.6	6277.6	6454.8	6757.5	7695.1
35°	9895.1	9927.1	9676.1	9102.7	8280.8	7321.0	6592.6	6572.9	6710.8	6974.1	7992.9
37.5°	10842.5	10832.7	10532.5	9912.3	8992.0	7864.9	7028.2	6993.7	7043.0	7311.2	8408.7
40°	11519.3	11588.2	11393.8	10815.5	9823.7	8534.2	7537.6	7461.3	7473.6	7727.1	8964.9
42.5°	12073.0	12136.9	12156.6	11787.5	10776.1	9361.1	8172.5	8096.2	8103.6	8462.9	9649.0
45°	12498.7	12584.8	12862.9	12754.6	11849.0	10315.9	9031.3	8952.6	8957.5	9356.2	10475.9
47.5°	12673.4	12766.9	13330.4	13588.8	12988.4	11457.7	10099.3	9983.7	10000.9	10441.4	11420.8
50°	12616.8	12742.3	13505.2	14231.1	13943.2	12619.3	11376.5	11295.3	11228.9	11868.7	12447.0
52.5°	12129.6	12267.4	13487.9	14639.6	14723.3	13716.8	12695.5	12648.8	12634.0	13384.6	13593.8
55°	10694.9	10926.2	12894.9	14747.9	15333.6	14750.4	14125.3	14046.6	14122.8	15008.8	14752.8
57.5°	9900.0	10072.3	11733.4	14627.3	15833.1	15734.7	15552.6	15560.0	15646.1	16773.2	16158.0
60°	9447.2	9649.0	11088.6	14297.6	16313.0	16930.7	17046.3	17046.3	17201.4	18675.4	17585.3
62.5°	8846.8	9051.0	10485.7	13662.7	16756.0	18338.3	18924.0	18916.6	18978.1	20715.5	18980.6
65°	7628.6	7818.1	9275.0	12661.1	16972.5	19888.6	21057.5	21035.4	20912.3	22531.6	19903.4
67.5°	5539.4	5719.0	7104.5	10756.4	16192.4	21138.7	23255.1	23264.9	22529.1	23675.9	19952.6
70°	3651.9	3775.0	4567.3	6986.4	13168.0	20599.8	24175.4	24205.0	22777.7	22962.2	17757.5
72.5°	2278.8	2364.9	2852.1	4166.2	7781.2	16305.6	21813.0	21894.2	20491.5	20179.0	14590.4
75°	1513.4	1572.5	1897.3	2428.9	3600.2	8824.6	16581.2	16842.1	16423.7	15818.4	10165.8
77.5°	910.5	959.7	1208.3	1543.0	1594.6	3447.7	9678.5	10352.8	10411.9	8258.6	4257.3
80°	415.9	472.5	666.9	881.0	849.0	1200.9	3413.2	3570.7	4213.0	2623.3	1343.6
82.5°	246.1	270.7	443.0	438.0	361.7	583.2	1228.0	1260.0	1070.5	959.7	573.4
85°	98.4	115.7	187.0	164.9	132.9	189.5	462.6	484.8	465.1	418.3	211.6
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	41.8	44.3	64.0	115.7	64.0
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°	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9	5632.9
2.5°	5674.7	5660.0	5733.8	5790.4	5815.0	5839.6	5817.5	5810.1	5810.1	5760.9	5736.3
5°	5736.3	5743.6	5844.5	5891.3	5891.3	5871.6	5812.5	5770.7	5755.9	5692.0	5674.7
7.5°	5851.9	5883.9	5977.4	5975.0	5906.1	5797.8	5650.1	5536.9	5433.6	5389.3	5362.2
10°	6041.4	6083.2	6147.2	6043.9	5851.9	5566.5	5253.9	5007.8	4860.2	4742.1	4742.1
12.5°	6258.0	6297.3	6285.0	6046.3	5650.1	5116.1	4665.8	4382.8	4176.1	4067.8	4067.8
15°	6474.5	6506.5	6373.6	5933.1	5229.3	4518.1	4026.0	3686.4	3506.7	3405.8	3405.8
17.5°	6693.5	6691.1	6410.5	5672.3	4680.5	3856.2	3373.8	3110.5	3049.0	3031.8	3029.3
20°	6905.2	6848.6	6363.8	5236.7	4043.2	3189.3	2884.1	2901.3	2992.4	3031.8	3036.7
22.5°	7143.9	7003.6	6226.0	4680.5	3319.7	2726.6	2746.3	2889.0	3021.9	3081.0	3088.4
25°	7387.5	7136.5	5994.6	4028.4	2714.3	2556.8	2709.4	2869.4	3019.5	3095.8	3103.1
27.5°	7485.9	7136.5	5600.9	3272.9	2392.0	2485.5	2652.8	2807.8	2965.3	3053.9	3071.1
30°	7567.1	7075.0	5049.7	2591.3	2259.1	2416.6	2561.7	2704.5	2859.5	2967.8	2987.5
32.5°	7680.3	7020.8	4382.8	2177.9	2197.5	2350.1	2451.0	2571.6	2711.9	2783.2	2775.8
35°	7813.2	6937.1	3578.1	1981.0	2145.9	2293.5	2364.9	2436.2	2372.3	2369.8	2377.2
37.5°	8002.7	6863.3	2876.7	1892.4	2111.4	2254.1	2313.2	2160.6	2072.0	2035.1	2020.4
40°	8275.9	6833.8	2268.9	1840.7	2106.5	2251.7	2209.8	1973.6	1853.0	1725.1	1722.6
42.5°	8620.4	6811.6	1875.2	1816.1	2123.7	2308.3	2067.1	1850.6	1602.0	1545.4	1540.5
45°	9063.3	6777.2	1678.3	1811.2	2165.6	2352.6	2052.4	1680.8	1511.0	1486.4	1486.4
47.5°	9597.3	6723.1	1589.7	1811.2	2212.3	2332.9	2008.1	1643.9	1469.1	1496.2	1513.4
50°	10210.1	6654.2	1543.0	1806.3	2259.1	2332.9	1914.5	1636.5	1459.3	1599.6	1656.2
52.5°	10864.7	6575.4	1511.0	1786.6	2291.1	2335.4	1919.5	1661.1	1469.1	1624.2	1670.9
55°	11588.2	6563.1	1466.7	1744.7	2300.9	2271.4	1931.8	1715.2	1483.9	1471.6	1474.1
57.5°	12501.1	6710.8	1434.7	1683.2	2261.5	2140.9	1956.4	1754.6	1466.7	1469.1	1486.4
60°	13456.0	6988.8	1461.7	1624.2	2180.3	2017.9	1973.6	1734.9	1383.0	1343.6	1348.5
62.5°	14268.0	7200.5	1483.9	1597.1	2062.2	1909.6	1956.4	1690.6	1336.2	1326.4	1348.5
65°	14607.6	7025.7	1429.8	1540.5	1889.9	1776.7	1919.5	1634.0	1296.9	1260.0	1262.4
67.5°	14231.1	6206.3	1323.9	1415.0	1695.5	1606.9	1860.4	1560.2	1242.7	1198.4	1188.6
70°	12156.6	4560.0	1141.8	1215.7	1459.3	1407.6	1769.4	1464.2	1156.6	1124.6	1102.5
72.5°	9796.7	3228.6	947.4	967.1	1144.3	1186.1	1611.9	1343.6	1058.2	967.1	935.1
75°	6819.0	2027.7	789.9	770.2	826.8	905.6	1257.5	1114.8	913.0	817.0	787.5
77.5°	2933.3	1040.9	617.7	607.8	551.2	627.5	964.7	930.2	765.3	654.6	637.4
80°	981.9	602.9	445.4	428.2	366.7	440.5	679.2	743.2	600.4	484.8	455.3
82.5°	492.2	349.4	283.0	255.9	246.1	278.1	401.1	462.6	415.9	334.7	283.0
85°	241.2	199.3	155.0	152.6	128.0	120.6	167.3	196.9	187.0	137.8	130.4
87.5°	88.6	78.7	49.2	39.4	24.6	17.2	9.8	9.8	7.4	7.4	7.4
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)