

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: P642188

Luminaire Tested: GWS-SA6C-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642188
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-SA6C-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28470.3 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

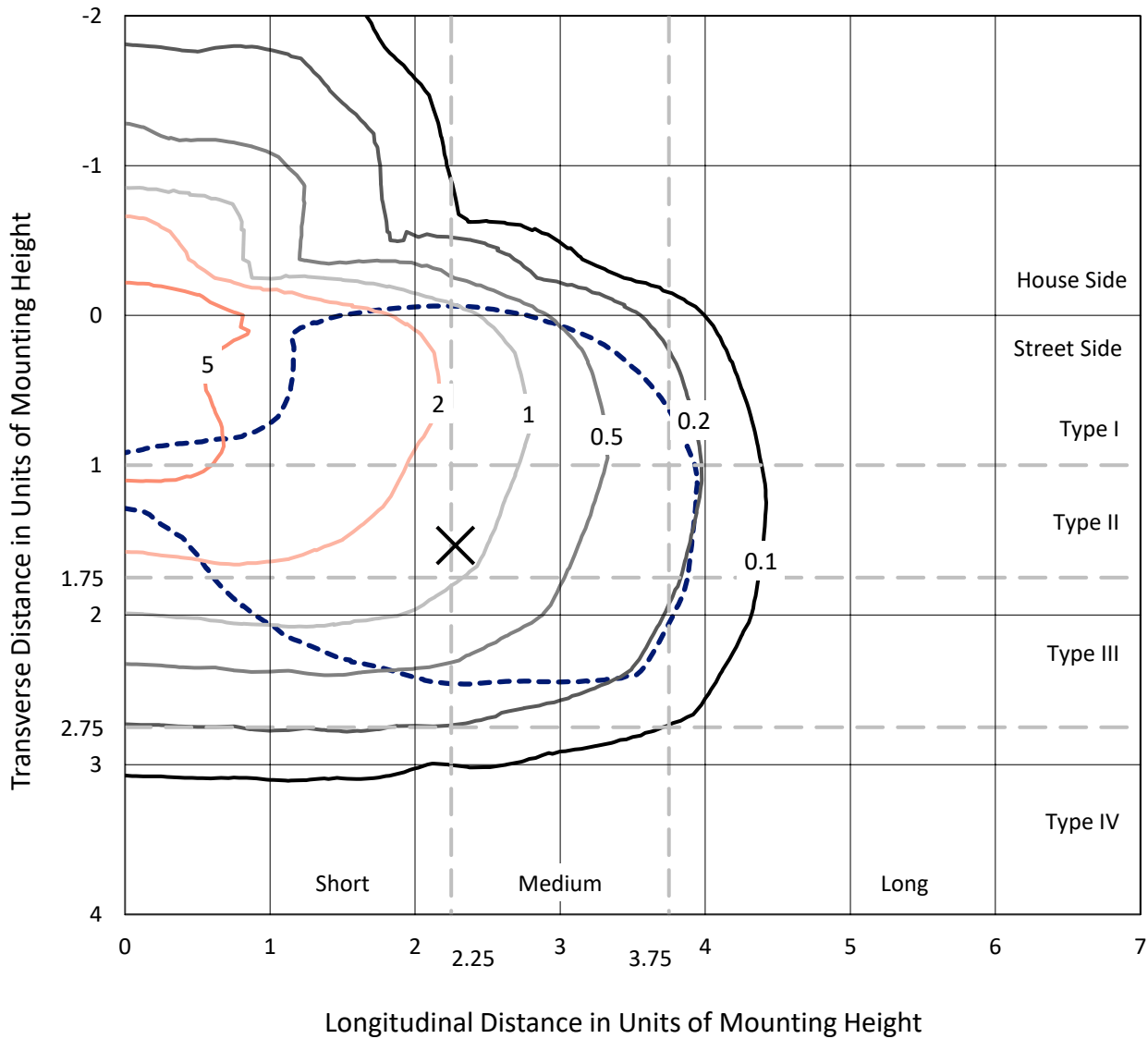
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

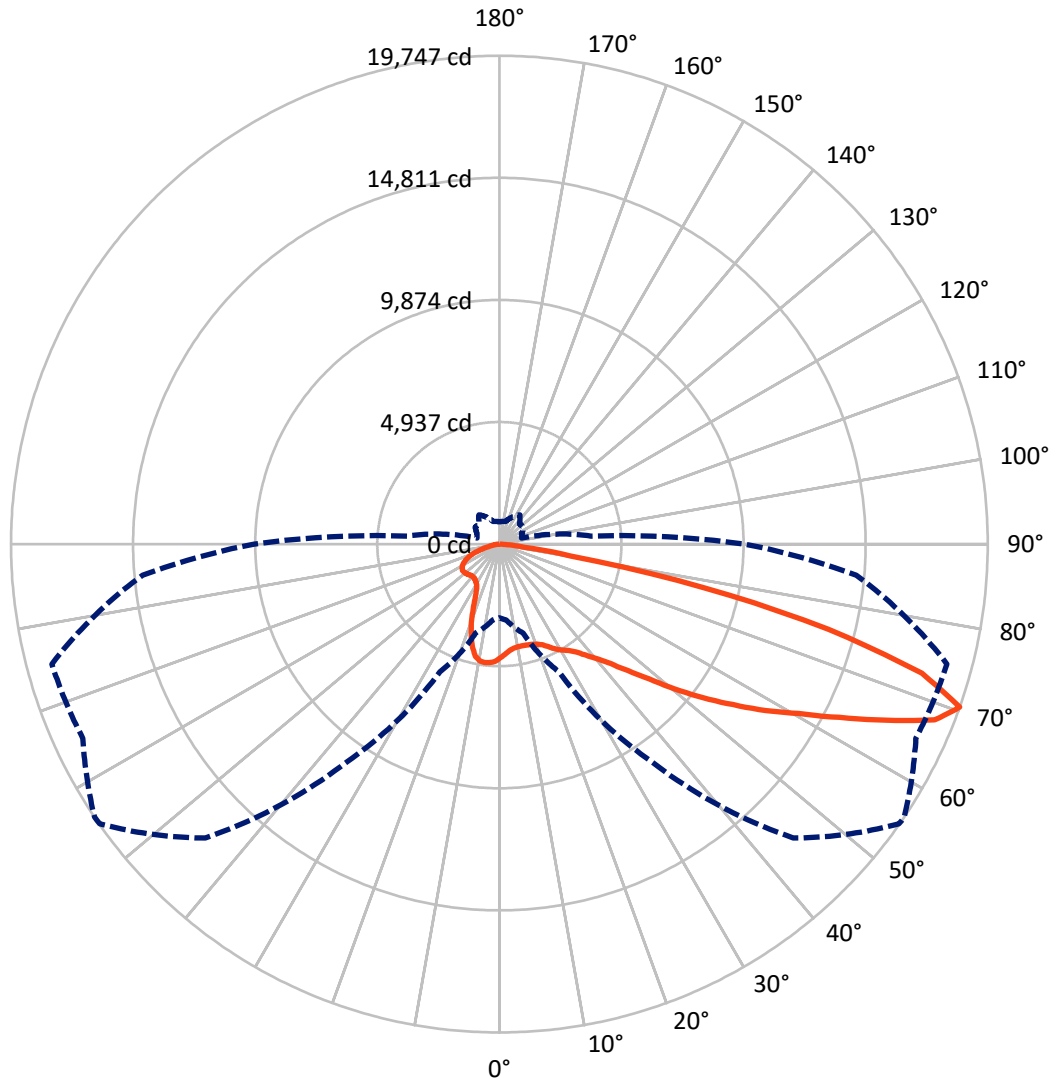
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5473.5	0.0	5473.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	22996.8	0.0	22996.8
	% Fixture	80.8	0.0	80.8
Total	Lumens	28470.3	0.0	28470.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.3	1.5
10°-20°	1152.3	4.0
20°-30°	1905.0	6.7
30°-40°	2848.3	10.0
40°-50°	4238.6	14.9
50°-60°	6026.1	21.2
60°-70°	7463.5	26.2
70°-80°	4121.1	14.5
80°-90°	290.2	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°	28470.3	100.0
0°-180°	28470.3	100.0

Coefficient of Utilization



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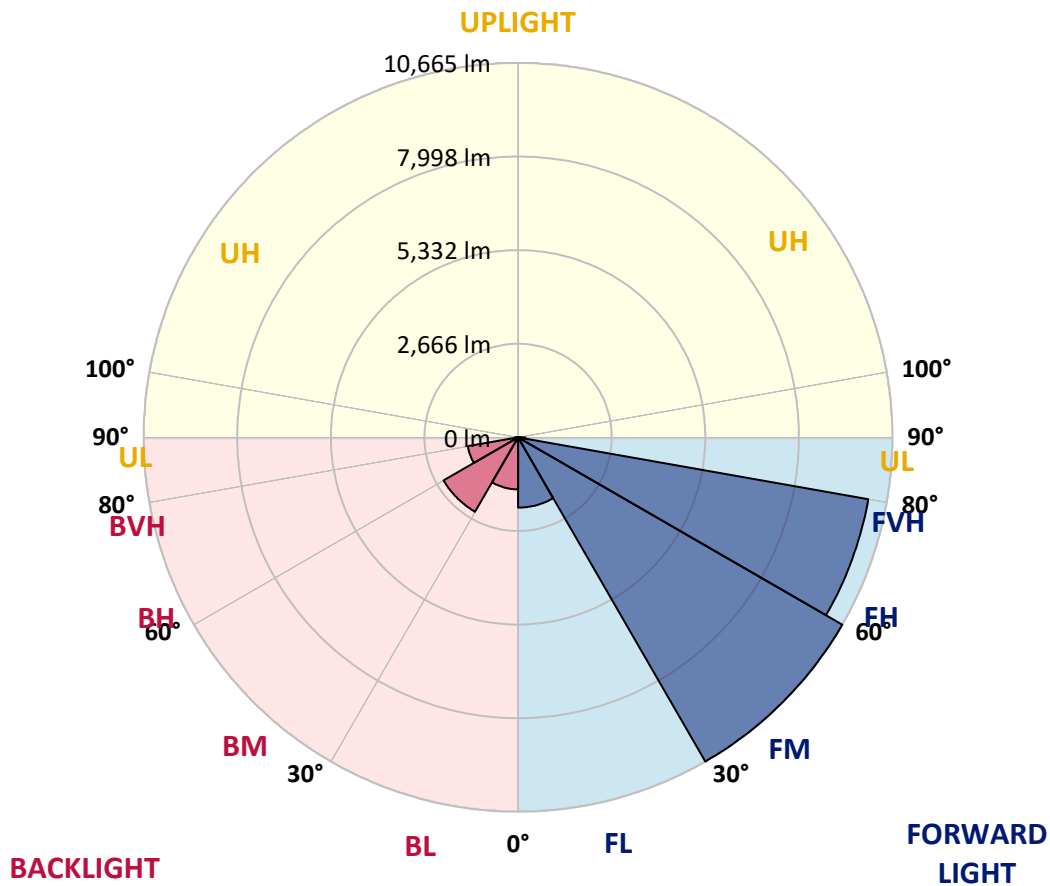
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.9	7.0			
FM (30°-60°)	10664.5	37.5			
FH (60°-80°)	10129.7	35.6			G4/12000
FVH (80°-90°)	201.7	0.7			G2/225
BL (0°-30°)	1481.7	5.2	B3/2500		
BM (30°-60°)	2448.4	8.6	B2/2500		
BH (60°-80°)	1454.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	88.5	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°	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5
2.5°	4300.4	4276.3	4304.4	4318.5	4354.6	4406.8	4453.0	4455.0	4479.1	4537.3	4593.5
5°	4105.7	4093.6	4101.7	4143.8	4182.0	4248.2	4318.5	4324.5	4392.8	4507.2	4619.6
7.5°	3955.1	3939.0	3969.2	4023.4	4071.5	4145.8	4238.2	4246.2	4342.6	4515.2	4687.9
10°	3738.3	3726.2	3782.4	3854.7	3959.1	4081.6	4204.0	4214.1	4340.6	4567.4	4808.4
12.5°	3643.9	3643.9	3668.0	3736.3	3850.7	4013.3	4198.0	4214.1	4372.7	4647.7	4962.9
15°	3790.5	3800.5	3780.4	3776.4	3822.6	3977.2	4206.1	4230.1	4432.9	4730.1	5115.5
17.5°	4085.6	4095.6	4043.4	3961.1	3914.9	4011.3	4236.2	4262.3	4497.2	4820.4	5280.2
20°	4499.2	4511.2	4396.8	4270.3	4111.7	4109.7	4294.4	4318.5	4579.5	4918.8	5454.8
22.5°	4983.0	4991.1	4846.5	4645.7	4402.8	4292.4	4394.8	4418.9	4685.9	5055.3	5643.5
25°	5543.2	5567.3	5392.6	5101.5	4772.2	4543.3	4561.4	4589.5	4876.6	5238.0	5866.4
27.5°	6141.4	6171.6	5970.8	5649.6	5195.8	4820.4	4776.2	4800.3	5079.4	5350.4	5984.8
30°	6753.8	6775.9	6575.1	6207.7	5651.6	5133.6	4956.9	4971.0	5167.7	5404.6	6105.3
32.5°	7434.4	7416.3	7223.6	6800.0	6177.6	5509.0	5125.6	5121.6	5266.1	5513.0	6278.0
35°	8072.8	8098.9	7894.1	7426.4	6755.8	5972.8	5378.5	5362.5	5474.9	5689.7	6520.9
37.5°	8845.8	8837.7	8592.8	8086.9	7336.0	6416.5	5733.9	5705.8	5745.9	5964.8	6860.2
40°	9397.9	9454.1	9295.5	8823.7	8014.6	6962.6	6149.5	6087.2	6097.3	6304.1	7313.9
42.5°	9849.6	9901.8	9917.9	9616.7	8791.6	7637.2	6667.5	6605.2	6611.2	6904.4	7872.1
45°	10196.9	10267.2	10494.1	10405.7	9666.9	8416.1	7368.1	7303.9	7307.9	7633.1	8546.6
47.5°	10339.5	10415.8	10875.5	11086.3	10596.5	9347.7	8239.5	8145.1	8159.1	8518.5	9317.6
50°	10293.3	10395.7	11018.1	11610.3	11375.4	10295.3	9281.4	9215.2	9161.0	9683.0	10154.8
52.5°	9895.8	10008.2	11004.0	11943.6	12011.9	11190.7	10357.5	10319.4	10307.4	10919.7	11090.3
55°	8725.3	8914.0	10520.2	12031.9	12509.8	12033.9	11524.0	11459.7	11522.0	12244.7	12035.9
57.5°	8076.8	8217.4	9572.5	11933.6	12917.3	12837.0	12688.4	12694.5	12764.7	13684.2	13182.3
60°	7707.4	7872.1	9046.5	11664.5	13308.8	13812.7	13907.1	13907.1	14033.6	15236.2	14346.8
62.5°	7217.6	7384.2	8554.7	11146.6	13670.2	14961.1	15438.9	15432.9	15483.1	16900.5	15485.1
65°	6223.8	6378.4	7566.9	10329.4	13846.9	16225.9	17179.6	17161.5	17061.1	18382.2	16238.0
67.5°	4519.3	4665.8	5796.1	8775.5	13210.4	17245.8	18972.4	18980.5	18380.2	19315.7	16278.1
70°	2979.4	3079.8	3726.2	5699.8	10743.0	16806.2	19723.3	19747.4	18582.9	18733.5	14487.3
72.5°	1859.1	1929.4	2326.9	3399.0	6348.2	13302.8	17795.9	17862.2	16717.8	16462.8	11903.4
75°	1234.7	1282.9	1547.9	1981.6	2937.2	7199.5	13527.6	13740.5	13399.2	12905.3	8293.7
77.5°	742.8	783.0	985.8	1258.8	1301.0	2812.7	7896.1	8446.2	8494.4	6737.7	3473.3
80°	339.3	385.5	544.1	718.7	692.6	979.7	2784.6	2913.1	3437.1	2140.2	1096.2
82.5°	200.8	220.8	361.4	357.4	295.1	475.8	1001.8	1027.9	873.3	783.0	467.8
85°	80.3	94.4	152.6	134.5	108.4	154.6	377.4	395.5	379.4	341.3	172.7
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	34.1	36.1	52.2	94.4	52.2
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°	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5
2.5°	4629.7	4617.6	4677.9	4724.0	4744.1	4764.2	4746.1	4740.1	4740.1	4699.9	4679.9
5°	4679.9	4685.9	4768.2	4806.3	4806.3	4790.3	4742.1	4708.0	4695.9	4643.7	4629.7
7.5°	4774.2	4800.3	4876.6	4874.6	4818.4	4730.1	4609.6	4517.2	4432.9	4396.8	4374.7
10°	4928.8	4962.9	5015.1	4930.8	4774.2	4541.3	4286.4	4085.6	3965.1	3868.8	3868.8
12.5°	5105.5	5137.6	5127.6	4932.8	4609.6	4173.9	3806.5	3575.7	3407.0	3318.7	3318.7
15°	5282.2	5308.3	5199.9	4840.5	4266.3	3686.1	3284.5	3007.5	2860.9	2778.6	2778.6
17.5°	5460.8	5458.8	5230.0	4627.7	3818.6	3146.0	2752.5	2537.7	2487.5	2473.4	2471.4
20°	5633.5	5587.3	5191.8	4272.3	3298.6	2601.9	2353.0	2367.0	2441.3	2473.4	2477.5
22.5°	5828.3	5713.8	5079.4	3818.6	2708.3	2224.5	2240.6	2357.0	2465.4	2513.6	2519.6
25°	6027.0	5822.2	4890.7	3286.5	2214.5	2086.0	2210.4	2340.9	2463.4	2525.6	2531.7
27.5°	6107.3	5822.2	4569.4	2670.2	1951.5	2027.7	2164.3	2290.7	2419.2	2491.5	2505.6
30°	6173.6	5772.0	4119.7	2114.1	1843.0	1971.5	2090.0	2206.4	2332.9	2421.2	2437.3
32.5°	6265.9	5727.9	3575.7	1776.8	1792.8	1917.3	1999.6	2098.0	2212.4	2270.7	2264.6
35°	6374.3	5659.6	2919.1	1616.2	1750.7	1871.1	1929.4	1987.6	1935.4	1933.4	1939.4
37.5°	6528.9	5599.4	2347.0	1543.9	1722.6	1839.0	1887.2	1762.7	1690.5	1660.3	1648.3
40°	6751.8	5575.3	1851.1	1501.7	1718.6	1837.0	1802.9	1610.1	1511.8	1407.4	1405.4
42.5°	7032.8	5557.2	1529.8	1481.7	1732.6	1883.2	1686.4	1509.8	1307.0	1260.8	1256.8
45°	7394.2	5529.1	1369.2	1477.6	1766.7	1919.3	1674.4	1371.2	1232.7	1212.6	1212.6
47.5°	7829.9	5484.9	1297.0	1477.6	1804.9	1903.3	1638.3	1341.1	1198.6	1220.7	1234.7
50°	8329.8	5428.7	1258.8	1473.6	1843.0	1903.3	1562.0	1335.1	1190.5	1305.0	1351.2
52.5°	8863.8	5364.5	1232.7	1457.6	1869.1	1905.3	1566.0	1355.2	1198.6	1325.1	1363.2
55°	9454.1	5354.4	1196.6	1423.4	1877.2	1853.1	1576.0	1399.3	1210.6	1200.6	1202.6
57.5°	10198.9	5474.9	1170.5	1373.2	1845.0	1746.7	1596.1	1431.5	1196.6	1198.6	1212.6
60°	10977.9	5701.8	1192.6	1325.1	1778.8	1646.3	1610.1	1415.4	1128.3	1096.2	1100.2
62.5°	11640.4	5874.4	1210.6	1303.0	1682.4	1557.9	1596.1	1379.3	1090.2	1082.1	1100.2
65°	11917.5	5731.9	1166.5	1256.8	1541.9	1449.5	1566.0	1333.1	1058.0	1027.9	1029.9
67.5°	11610.3	5063.3	1080.1	1154.4	1383.3	1311.0	1517.8	1272.9	1013.9	977.7	969.7
70°	9917.9	3720.2	931.6	991.8	1190.5	1148.4	1443.5	1194.6	943.6	917.5	899.4
72.5°	7992.5	2634.1	773.0	789.0	933.6	967.7	1315.0	1096.2	863.3	789.0	762.9
75°	5563.2	1654.3	644.5	628.4	674.6	738.8	1025.9	909.5	744.8	666.5	642.5
77.5°	2393.1	849.2	503.9	495.9	449.7	512.0	787.0	758.9	624.4	534.0	520.0
80°	801.1	491.9	363.4	349.3	299.1	359.4	554.1	606.3	489.9	395.5	371.4
82.5°	401.5	285.1	230.9	208.8	200.8	226.9	327.2	377.4	339.3	273.0	230.9
85°	196.8	162.6	126.5	124.5	104.4	98.4	136.5	160.6	152.6	112.4	106.4
87.5°	72.3	64.2	40.2	32.1	20.1	14.1	8.0	8.0	6.0	6.0	6.0
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)