

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: P639680

Luminaire Tested: GWS-SA5C-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20003.5 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

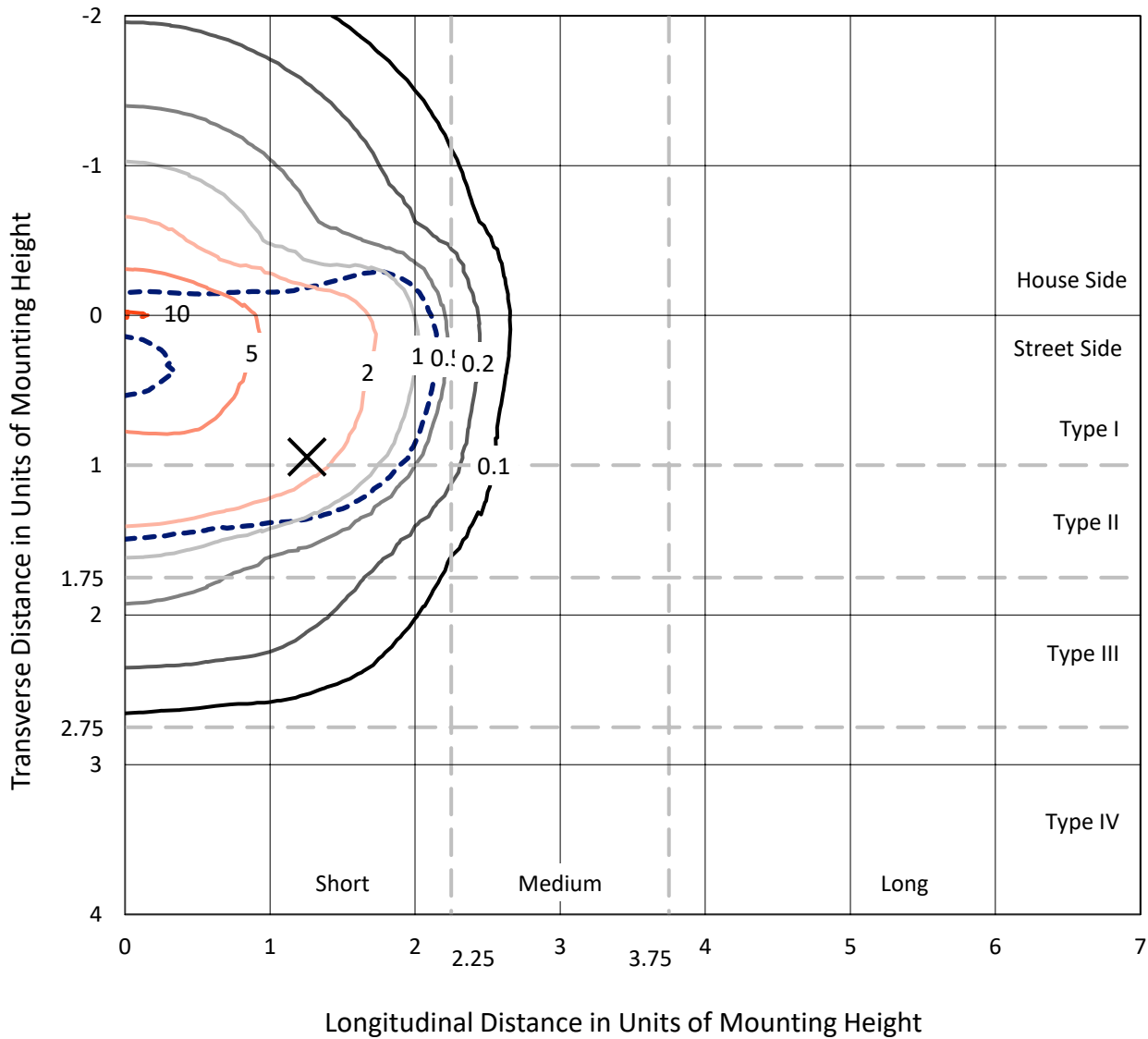
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

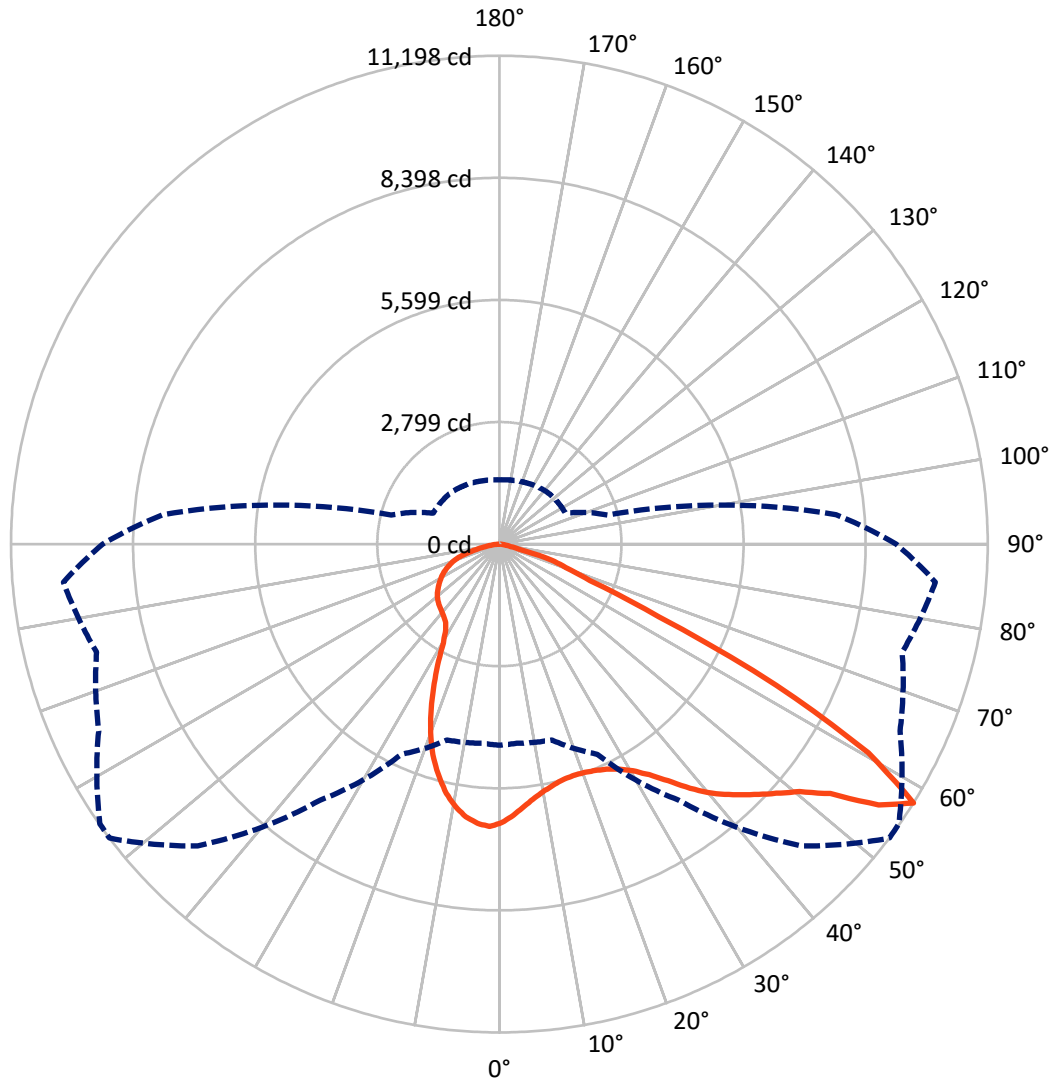
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6254.4	0.0	6254.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	13749.2	0.0	13749.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	20003.5	0.0	20003.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.6	2.9
10°-20°	1515.4	7.6
20°-30°	2232.8	11.2
30°-40°	3125.3	15.6
40°-50°	4108.5	20.5
50°-60°	4817.2	24.1
60°-70°	2837.9	14.2
70°-80°	706.0	3.5
80°-90°	82.8	0.4
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°	20003.5	100.0
0°-180°	20003.5	100.0

Coefficient of Utilization



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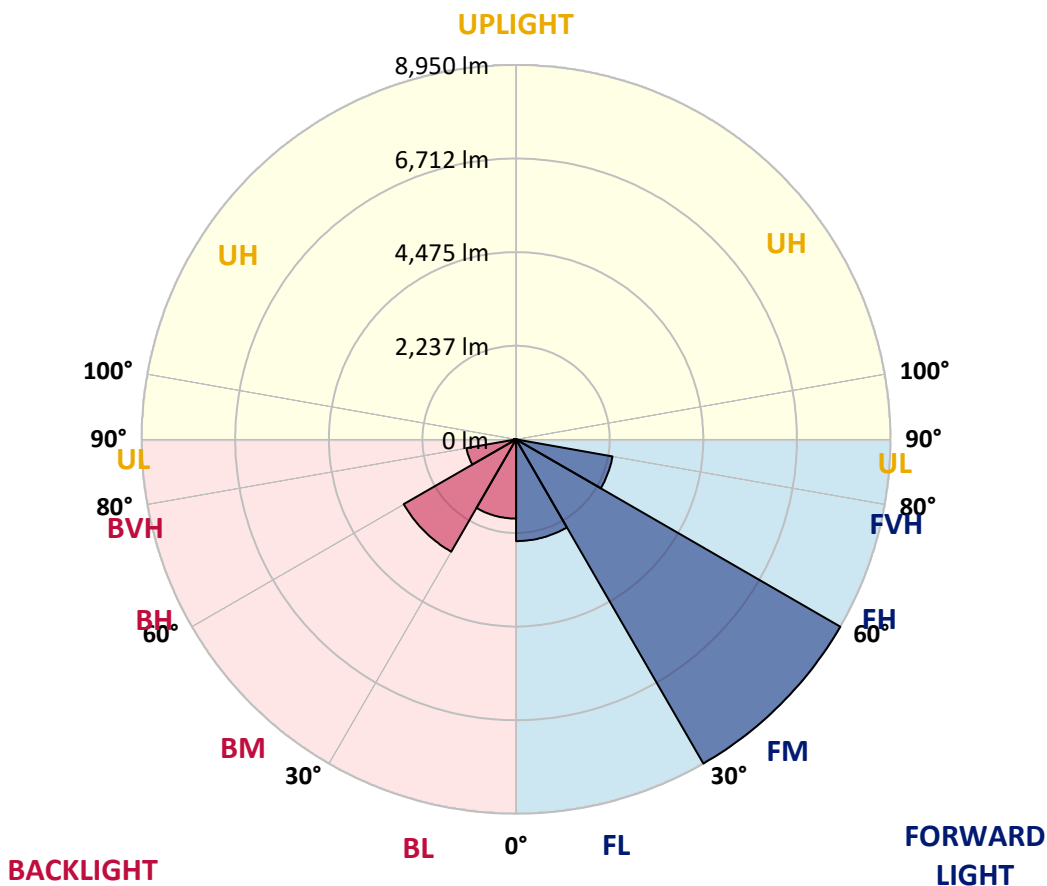
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2432.0	12.2			
FM (30°-60°)	8949.7	44.7			
FH (60°-80°)	2339.6	11.7			G2/5000
FVH (80°-90°)	27.7	0.1			G1/100
BL (0°-30°)	1893.8	9.5	B3/2500		
BM (30°-60°)	3101.2	15.5	B3/5000		
BH (60°-80°)	1204.2	6.0	B3/2500		G3/2500
BVH (80°-90°)	55.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7
2.5°	6020.6	6037.5	6040.8	6093.0	6096.4	6172.2	6222.7	6212.6	6264.8	6328.7	6379.2
5°	5732.7	5734.4	5751.2	5813.5	5847.2	5946.5	6030.7	6030.7	6131.7	6263.1	6375.9
7.5°	5495.3	5493.7	5508.8	5577.8	5633.4	5752.9	5867.4	5880.9	6022.3	6214.2	6397.8
10°	5274.8	5286.6	5303.4	5387.6	5458.3	5606.5	5742.8	5764.7	5943.2	6180.6	6428.1
12.5°	5133.4	5135.0	5160.3	5254.6	5345.5	5503.8	5646.9	5673.8	5879.2	6148.6	6450.0
15°	5042.4	5044.1	5071.1	5175.5	5281.5	5441.5	5587.9	5618.2	5842.2	6143.5	6492.0
17.5°	5002.0	5000.4	5025.6	5130.0	5246.2	5412.8	5569.4	5606.5	5859.0	6182.3	6566.1
20°	5002.0	5003.7	5017.2	5111.5	5229.3	5406.1	5587.9	5633.4	5924.7	6269.8	6680.6
22.5°	5072.8	5079.5	5086.2	5150.2	5242.8	5416.2	5636.8	5697.4	6066.1	6416.3	6830.5
25°	5210.8	5212.5	5219.2	5271.4	5313.5	5444.8	5717.6	5808.5	6286.6	6630.1	7019.0
27.5°	5396.0	5419.6	5426.3	5460.0	5460.0	5515.5	5843.8	5975.2	6584.6	6938.2	7259.8
30°	5655.3	5663.7	5675.5	5712.5	5672.1	5648.5	6029.0	6197.4	6929.8	7310.3	7549.4
32.5°	5882.6	5901.1	5965.1	6025.7	5953.3	5879.2	6301.8	6500.5	7261.5	7697.5	7857.5
35°	6076.2	6121.6	6244.6	6379.2	6328.7	6254.7	6663.8	6870.9	7534.2	7975.3	8130.2
37.5°	6310.2	6345.6	6513.9	6732.8	6778.3	6742.9	7104.9	7253.0	7716.0	8046.0	8278.4
40°	6547.6	6601.5	6818.7	7121.7	7295.1	7320.4	7512.3	7611.7	7778.3	7908.0	8249.7
42.5°	6790.0	6882.6	7180.6	7534.2	7842.3	7899.5	7855.8	7897.9	7758.1	7717.7	8116.7
45°	7086.4	7195.8	7532.5	7983.7	8389.5	8478.7	8192.5	8153.8	7754.8	7645.3	8034.2
47.5°	7436.6	7546.0	7867.6	8392.9	8911.4	8977.1	8537.6	8466.9	7872.6	7756.4	8145.4
50°	7746.3	7822.1	8110.0	8697.6	9398.0	9436.7	8918.1	8832.3	8165.6	8064.5	8492.2
52.5°	7431.5	7423.1	7726.1	8450.1	9650.5	10116.9	9504.0	9421.5	8731.3	8576.4	9029.3
55°	6305.2	6209.2	6480.3	7192.4	8945.1	10721.3	10554.6	10389.6	9485.5	9091.6	9532.7
57.5°	4609.8	4582.8	4648.5	5316.9	7165.5	9785.2	11197.8	11182.6	10137.1	9563.0	10034.4
60°	3604.6	3564.2	3389.1	3407.6	4884.2	7643.6	9717.9	10164.0	10541.2	9845.8	10384.6
62.5°	3200.6	3170.3	3079.3	2828.5	2909.3	5124.9	7123.4	7532.5	9211.1	8695.9	8919.8
65°	2650.0	2641.6	2717.4	2707.3	2437.9	2830.2	4020.5	4433.0	5791.7	5864.1	5791.7
67.5°	1926.1	1910.9	2102.8	2481.7	2347.0	2136.5	2240.9	2384.0	2969.9	2666.9	2400.8
70°	1252.6	1230.7	1341.8	1793.1	2101.2	1862.1	1614.6	1591.0	1633.1	1015.2	1097.7
72.5°	840.1	814.9	813.2	986.6	1269.5	1254.3	1250.9	1239.1	1106.1	801.4	889.0
75°	468.0	447.8	442.8	426.0	454.6	463.0	493.3	510.1	552.2	607.8	673.4
77.5°	79.1	77.4	97.7	124.6	171.7	220.6	272.7	287.9	355.2	420.9	463.0
80°	43.8	45.5	58.9	72.4	96.0	131.3	168.4	178.5	218.9	254.2	287.9
82.5°	23.6	23.6	30.3	38.7	52.2	69.0	90.9	99.3	126.3	148.2	171.7
85°	8.4	8.4	11.8	15.2	21.9	28.6	35.4	40.4	55.6	75.8	85.9
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.7	6.7	8.4	15.2	21.9
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°	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7	6387.7
2.5°	6421.3	6375.9	6438.2	6466.8	6476.9	6483.6	6439.9	6409.5	6399.4	6367.5	6348.9
5°	6444.9	6414.6	6473.5	6473.5	6431.4	6387.7	6298.4	6236.1	6192.4	6140.2	6131.7
7.5°	6485.3	6463.4	6495.4	6429.7	6323.7	6205.8	6050.9	5929.7	5832.1	5768.1	5769.8
10°	6539.2	6512.2	6487.0	6340.5	6146.9	5929.7	5692.3	5515.5	5353.9	5279.8	5239.4
12.5°	6574.5	6535.8	6429.7	6187.3	5902.8	5611.5	5276.5	5013.8	4779.8	4673.7	4665.3
15°	6618.3	6547.6	6335.5	5988.6	5593.0	5195.7	4764.6	4399.3	4082.8	3917.8	3909.4
17.5°	6675.6	6559.4	6222.7	5761.4	5266.4	4680.5	4138.3	3678.7	3342.0	3214.0	3235.9
20°	6756.4	6572.9	6094.7	5508.8	4860.6	4094.6	3419.4	2996.8	2867.2	2858.8	2842.0
22.5°	6847.3	6581.3	5953.3	5226.0	4369.0	3469.9	2825.1	2645.0	2643.3	2685.4	2695.5
25°	6950.0	6588.0	5793.3	4896.0	3837.0	2847.0	2498.5	2444.6	2486.7	2565.8	2575.9
27.5°	7081.3	6601.5	5599.7	4534.0	3271.3	2459.8	2318.3	2304.9	2355.4	2429.5	2426.1
30°	7274.9	6650.3	5394.3	4118.1	2690.4	2276.3	2208.9	2210.6	2230.8	2266.2	2271.2
32.5°	7471.9	6726.1	5194.0	3650.1	2357.1	2171.9	2141.6	2138.2	2138.2	2153.4	2156.7
35°	7658.8	6811.9	4976.8	3161.8	2195.4	2111.3	2091.1	2081.0	2075.9	2072.5	2067.5
37.5°	7763.2	6854.0	4764.6	2680.3	2109.6	2070.9	2050.7	2037.2	2018.7	2005.2	2001.8
40°	7717.7	6805.2	4518.8	2320.0	2057.4	2032.1	2008.6	1990.0	1964.8	1953.0	1946.3
42.5°	7566.2	6653.7	4251.1	2150.0	2015.3	1990.0	1961.4	1931.1	1914.3	1904.2	1902.5
45°	7406.2	6470.2	3927.9	2050.7	1974.9	1944.6	1910.9	1877.2	1858.7	1853.7	1852.0
47.5°	7401.2	6379.2	3584.4	1971.5	1926.1	1895.8	1853.7	1820.0	1799.8	1793.1	1786.3
50°	7623.4	6471.8	3197.2	1902.5	1875.6	1843.6	1796.4	1759.4	1734.1	1725.7	1724.0
52.5°	8084.7	6820.3	2850.4	1833.5	1808.2	1771.2	1732.4	1695.4	1665.1	1649.9	1648.3
55°	8583.1	7263.1	2634.9	1762.8	1729.1	1697.1	1661.7	1621.3	1587.7	1564.1	1560.7
57.5°	9098.3	7746.3	2569.2	1673.5	1648.3	1626.4	1584.3	1540.5	1501.8	1479.9	1474.9
60°	9522.6	8162.2	2692.1	1579.2	1565.8	1537.1	1498.4	1456.3	1429.4	1412.6	1409.2
62.5°	7971.9	6645.3	2173.6	1476.5	1476.5	1446.2	1402.5	1372.2	1353.6	1341.8	1338.5
65°	5059.3	4114.8	1483.3	1373.8	1372.2	1331.7	1294.7	1274.5	1266.1	1247.6	1244.2
67.5°	2203.9	1880.6	1267.8	1269.5	1262.7	1218.9	1181.9	1166.7	1149.9	1129.7	1128.0
70°	1143.2	1165.1	1134.8	1153.3	1141.5	1089.3	1053.9	1030.4	995.0	974.8	976.5
72.5°	922.6	946.2	979.9	1008.5	983.2	941.1	885.6	857.0	811.5	789.6	791.3
75°	703.8	729.0	761.0	791.3	771.1	718.9	683.6	654.9	602.7	577.5	582.5
77.5°	484.9	498.4	537.1	535.4	528.7	513.5	461.3	427.6	373.8	343.5	346.8
80°	301.4	309.8	328.3	336.7	333.4	313.2	271.1	245.8	213.8	195.3	197.0
82.5°	181.8	186.9	203.7	205.4	203.7	188.6	156.6	138.1	117.9	107.8	107.8
85°	92.6	96.0	106.1	106.1	96.0	80.8	72.4	64.0	52.2	47.1	47.1
87.5°	25.3	25.3	32.0	26.9	21.9	20.2	10.1	8.4	3.4	1.7	1.7
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)