

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: P640678

Luminaire Tested: GWS-SA5E-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35559.6 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 269.6
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

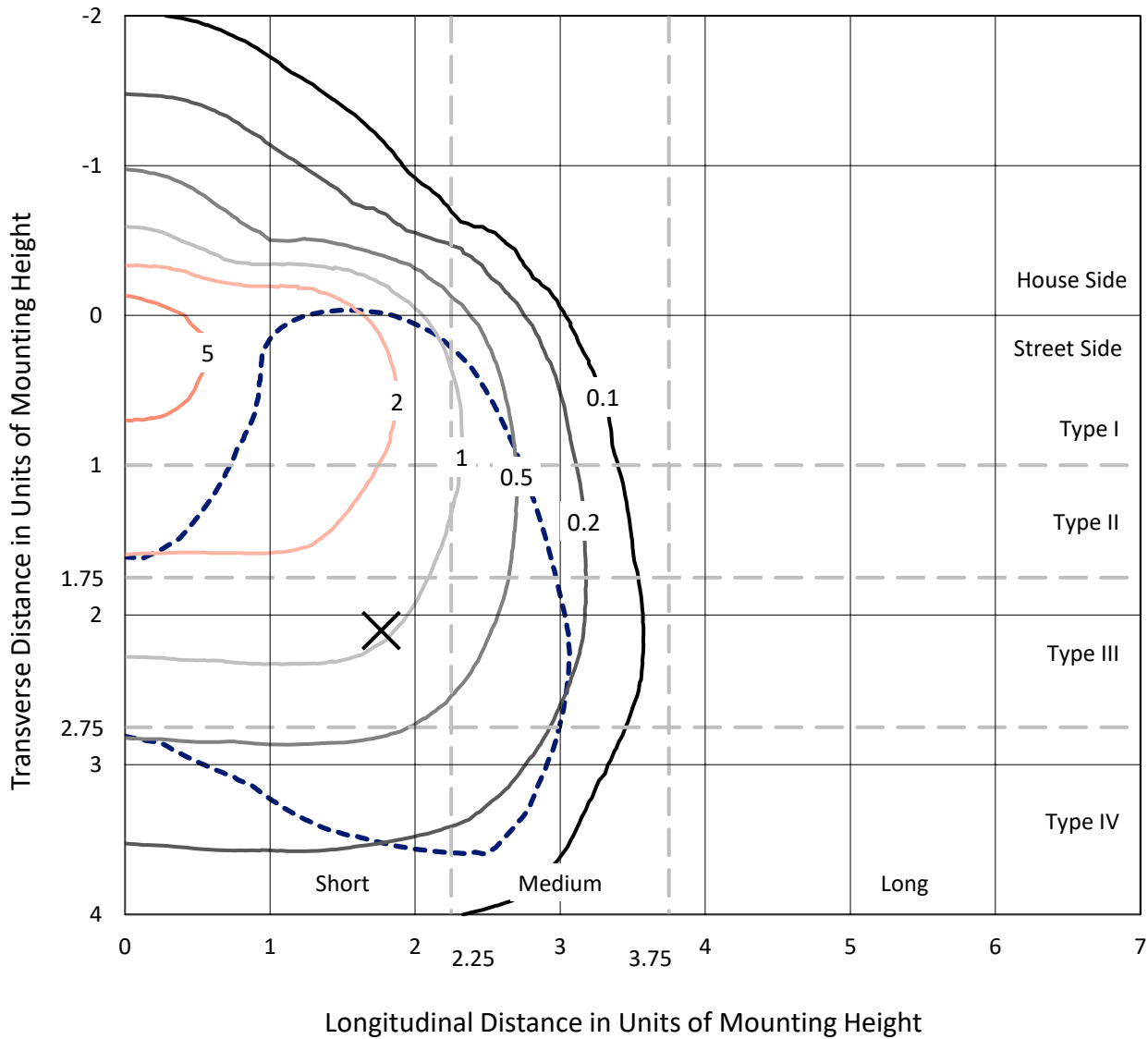


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Iso-Footcandle Lines of Horizontal Illumination

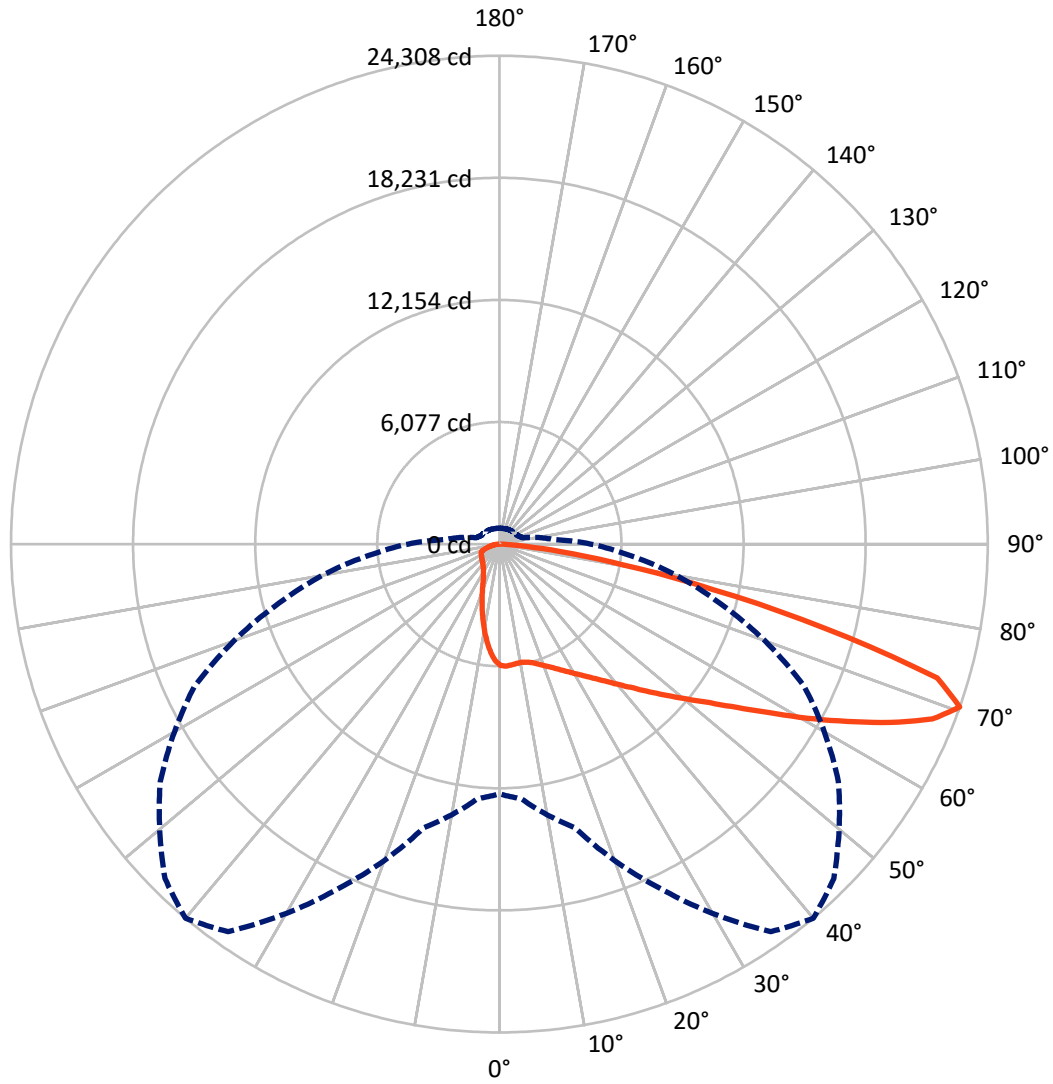
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5477.1	0.0	5477.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	30082.5	0.0	30082.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	35559.6	0.0	35559.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.4	1.5
10°-20°	1390.5	3.9
20°-30°	2183.3	6.1
30°-40°	3282.6	9.2
40°-50°	5066.8	14.2
50°-60°	7524.6	21.2
60°-70°	9484.7	26.7
70°-80°	5484.9	15.4
80°-90°	608.7	1.7
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°	35559.6	100.0
0°-180°	35559.6	100.0

Coefficient of Utilization



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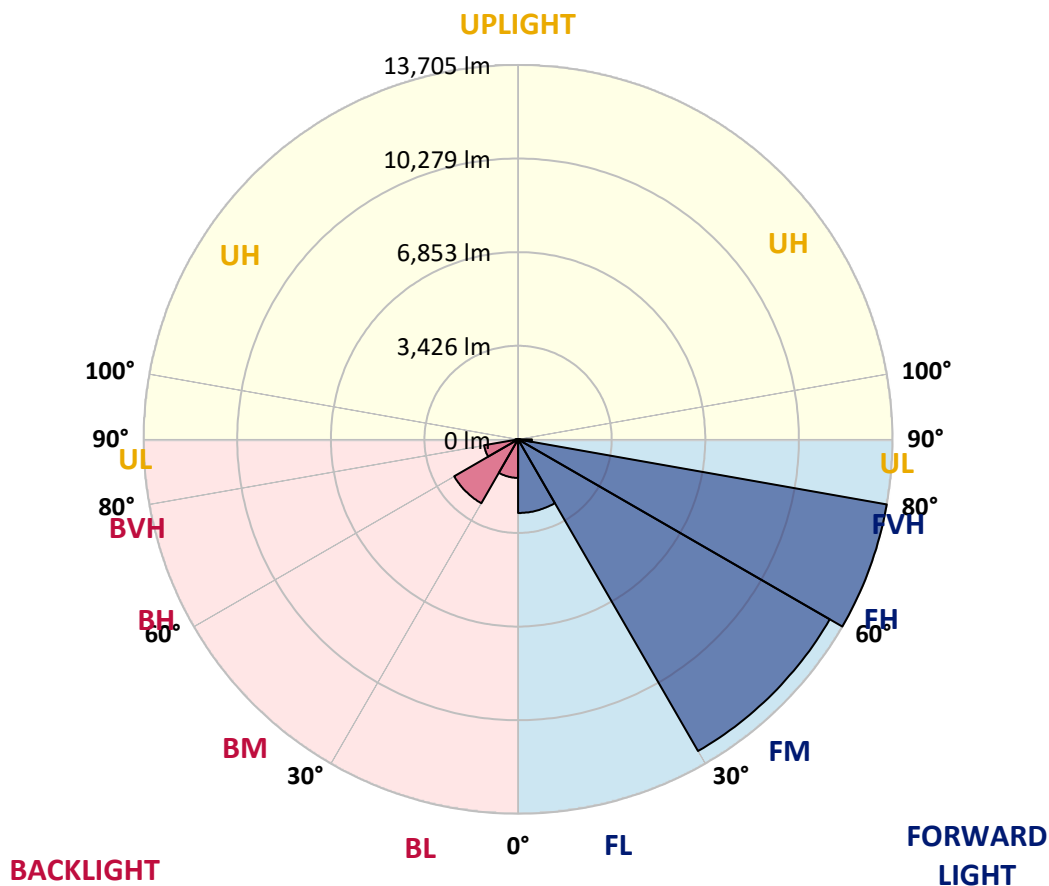
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2695.7	7.6			
FM (30°-60°)	13174.4	37.0			
FH (60°-80°)	13705.5	38.5			G5
FVH (80°-90°)	507.0	1.4			G4/750
BL (0°-30°)	1411.5	4.0	B3/2500		
BM (30°-60°)	2699.7	7.6	B3/5000		
BH (60°-80°)	1264.1	3.6	B3/2500		G3/2500
BVH (80°-90°)	101.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4
2.5°	6075.6	6086.2	6094.2	6104.8	6099.5	6083.6	6096.8	6096.8	6067.6	6035.8	6006.6
5°	6083.6	6096.8	6094.2	6091.5	6070.3	6043.7	6043.7	6027.8	5977.4	5926.9	5879.2
7.5°	6067.6	6065.0	6062.3	6054.4	6030.5	6001.3	5996.0	5964.1	5897.8	5828.7	5759.7
10°	5996.0	5993.3	6001.3	6019.8	6014.5	5988.0	5988.0	5958.8	5881.8	5796.9	5706.6
12.5°	5937.6	5937.6	5969.4	6019.8	6038.4	6027.8	6030.5	6009.2	5921.6	5820.8	5714.6
15°	5945.5	5948.2	6017.2	6099.5	6134.0	6126.0	6128.7	6104.8	6006.6	5905.7	5762.4
17.5°	5998.6	6011.9	6131.3	6245.5	6290.6	6280.0	6261.4	6221.6	6110.1	5996.0	5820.8
20°	6110.1	6131.3	6285.3	6428.6	6481.7	6457.8	6425.9	6346.3	6224.2	6099.5	5884.5
22.5°	6330.4	6343.7	6513.5	6654.2	6696.7	6667.5	6603.8	6489.7	6349.0	6218.9	5961.5
25°	6640.9	6656.9	6818.8	6948.8	6938.2	6903.7	6816.1	6675.4	6508.2	6370.2	6072.9
27.5°	7009.9	7036.4	7195.7	7299.2	7230.2	7179.8	7081.5	6911.7	6723.2	6598.5	6242.8
30°	7413.3	7423.9	7559.3	7662.8	7556.7	7487.7	7368.2	7185.1	7015.2	6922.3	6497.6
32.5°	7803.5	7814.1	7930.9	7989.3	7877.8	7827.4	7723.9	7530.1	7410.7	7360.2	6877.2
35°	8214.9	8212.3	8307.8	8358.2	8244.1	8222.9	8116.7	7968.1	7946.8	8013.2	7431.9
37.5°	8626.3	8602.4	8652.9	8719.2	8655.5	8676.8	8607.7	8557.3	8639.6	8812.1	8169.8
40°	8955.5	8955.5	9008.5	9090.8	9112.1	9205.0	9165.1	9231.5	9496.9	9908.3	9082.9
42.5°	9247.4	9250.1	9361.6	9489.0	9642.9	9786.2	9818.1	9990.6	10540.0	11185.0	10229.5
45°	9552.7	9555.3	9706.6	9892.4	10218.9	10492.3	10556.0	10943.5	11729.1	12514.8	11474.3
47.5°	9905.7	9876.5	10086.2	10396.7	10861.2	11254.0	11418.6	11968.0	12960.7	13926.9	12647.5
50°	10303.8	10242.8	10476.3	11012.5	11585.8	12124.6	12400.7	13029.7	14282.5	15230.1	13751.7
52.5°	10752.4	10717.9	10962.1	11615.0	12490.9	13112.0	13486.3	14311.7	15567.2	16528.0	14627.6
55°	11309.8	11227.5	11580.5	12411.3	13552.6	14343.6	14786.8	15580.5	16971.3	17706.5	15296.5
57.5°	11920.3	11830.0	12302.5	13406.6	14932.8	15800.8	16355.5	17008.5	18293.1	18609.0	15689.3
60°	12578.5	12549.3	13109.4	14574.5	16578.5	17587.1	17987.9	18579.8	19442.4	19131.9	15591.1
62.5°	13181.0	13170.4	13985.3	15840.6	18322.3	19431.8	19750.3	19906.9	20270.5	19097.4	14810.7
65°	13815.4	13905.6	15007.2	17308.4	20321.0	21409.2	21541.9	21143.8	20549.2	18192.3	13212.9
67.5°	13895.0	14070.2	15649.5	18683.3	22216.1	23243.3	23137.1	21613.6	19726.4	15673.4	10356.9
70°	12427.2	12732.5	14624.9	18893.0	23551.2	24307.7	23540.6	20602.3	16740.4	11354.9	6513.5
72.5°	10383.4	10646.2	12318.4	16111.3	21828.6	22792.1	21754.3	17438.4	11830.0	6513.5	3317.8
75°	8082.2	8387.4	9929.6	12806.8	16342.2	16727.1	16206.9	12161.8	6502.9	2686.1	1507.6
77.5°	4931.6	5151.9	6351.6	8676.8	11434.5	10858.6	9202.3	6818.8	2853.3	1287.3	931.6
80°	2181.8	2317.2	3129.4	4660.9	6606.4	6245.5	4923.6	2911.7	1560.7	817.5	650.3
82.5°	1170.5	1258.1	1542.1	1844.7	2901.1	3033.8	2460.5	1677.5	838.7	467.1	371.6
85°	514.9	565.4	700.7	668.9	952.9	937.0	944.9	1151.9	400.8	215.0	241.5
87.5°	0.0	0.0	0.0	0.0	2.7	2.7	29.2	153.9	39.8	63.7	55.7
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°	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4	6038.4
2.5°	5974.7	5926.9	5913.7	5897.8	5868.6	5818.1	5781.0	5738.5	5719.9	5698.7	5701.3
5°	5826.1	5767.7	5712.0	5640.3	5550.0	5449.2	5380.2	5300.5	5258.1	5218.3	5228.9
7.5°	5698.7	5608.4	5494.3	5343.0	5181.1	5000.6	4854.6	4740.5	4663.5	4610.4	4637.0
10°	5619.1	5512.9	5313.8	5067.0	4793.6	4517.5	4307.9	4111.4	3989.3	3893.8	3888.5
12.5°	5603.1	5465.1	5175.8	4817.5	4422.0	4053.0	3745.2	3479.7	3317.8	3198.4	3243.5
15°	5619.1	5443.9	5056.4	4586.6	4087.6	3588.6	3206.3	2901.1	2707.3	2598.5	2590.6
17.5°	5637.6	5422.6	4921.0	4337.1	3737.2	3166.5	2723.3	2399.4	2200.4	2091.6	2094.2
20°	5653.6	5390.8	4761.7	4063.7	3381.5	2773.7	2314.5	2006.6	1828.8	1749.2	1762.4
22.5°	5680.1	5358.9	4591.9	3771.7	3017.9	2394.1	1990.7	1741.2	1635.0	1581.9	1584.6
25°	5730.5	5340.4	4416.7	3453.2	2659.6	2091.6	1767.7	1600.5	1534.2	1502.3	1499.7
27.5°	5834.1	5356.3	4233.5	3145.3	2335.7	1860.6	1624.4	1515.6	1470.5	1449.2	1446.6
30°	6006.6	5420.0	4074.3	2832.1	2057.0	1680.1	1526.2	1459.8	1433.3	1414.7	1412.1
32.5°	6269.3	5539.4	3901.8	2540.1	1831.4	1547.4	1449.2	1414.7	1396.1	1385.5	1385.5
35°	6667.5	5757.1	3731.9	2285.3	1656.3	1443.9	1388.2	1374.9	1359.0	1353.7	1359.0
37.5°	7240.8	6104.8	3577.9	2062.4	1531.5	1364.3	1321.8	1327.1	1313.9	1321.8	1329.8
40°	7968.1	6569.3	3447.9	1879.2	1438.6	1305.9	1263.4	1282.0	1274.0	1282.0	1295.3
42.5°	8889.1	7145.3	3349.7	1735.9	1372.2	1258.1	1218.3	1236.9	1231.6	1242.2	1255.5
45°	9916.3	7904.4	3304.5	1635.0	1324.5	1223.6	1181.1	1194.4	1189.1	1197.1	1210.3
47.5°	10901.0	8594.5	3344.4	1576.6	1284.7	1194.4	1149.3	1154.6	1151.9	1149.3	1157.3
50°	11750.4	9143.9	3458.5	1558.0	1258.1	1165.2	1122.7	1125.4	1117.4	1101.5	1106.8
52.5°	12443.1	9584.5	3527.5	1558.0	1244.8	1133.4	1093.6	1096.2	1080.3	1059.0	1061.7
55°	12899.7	9762.3	3471.8	1555.4	1239.5	1106.8	1064.4	1067.0	1051.1	1024.5	1027.2
57.5°	13029.7	9589.8	3238.2	1526.2	1234.2	1085.6	1035.2	1040.5	1029.9	1000.7	1000.7
60°	12666.1	8958.1	2810.9	1459.8	1221.0	1072.3	1013.9	1021.9	1016.6	987.4	987.4
62.5°	11713.2	7835.4	2301.2	1359.0	1183.8	1056.4	995.3	1011.3	1024.5	1008.6	1006.0
65°	9929.6	6277.3	1871.2	1247.5	1136.0	1029.9	968.8	1008.6	1037.8	1059.0	1059.0
67.5°	7450.5	4493.7	1526.2	1130.7	1064.4	976.8	934.3	971.5	992.7	1006.0	1013.9
70°	4541.4	2643.6	1202.4	995.3	960.8	897.1	865.3	828.1	798.9	793.6	796.3
72.5°	2221.6	1512.9	976.8	846.7	820.2	761.8	690.1	674.2	660.9	652.9	650.3
75°	1223.6	1053.7	806.9	703.4	655.6	583.9	568.0	541.5	536.2	525.5	528.2
77.5°	865.3	830.8	666.2	570.7	499.0	461.8	469.8	451.2	451.2	443.3	440.6
80°	650.3	652.9	512.3	416.7	368.9	355.7	363.6	363.6	358.3	355.7	353.0
82.5°	411.4	464.5	345.1	268.1	262.8	265.4	262.8	260.1	265.4	257.5	254.8
85°	284.0	334.4	209.7	159.3	159.3	156.6	161.9	159.3	164.6	156.6	156.6
87.5°	63.7	148.6	77.0	47.8	50.4	47.8	50.4	53.1	58.4	61.0	61.0
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)