

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: P640175

Luminaire Tested: GWS-SA5D-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640175
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-SA5D-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: 25235.6 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

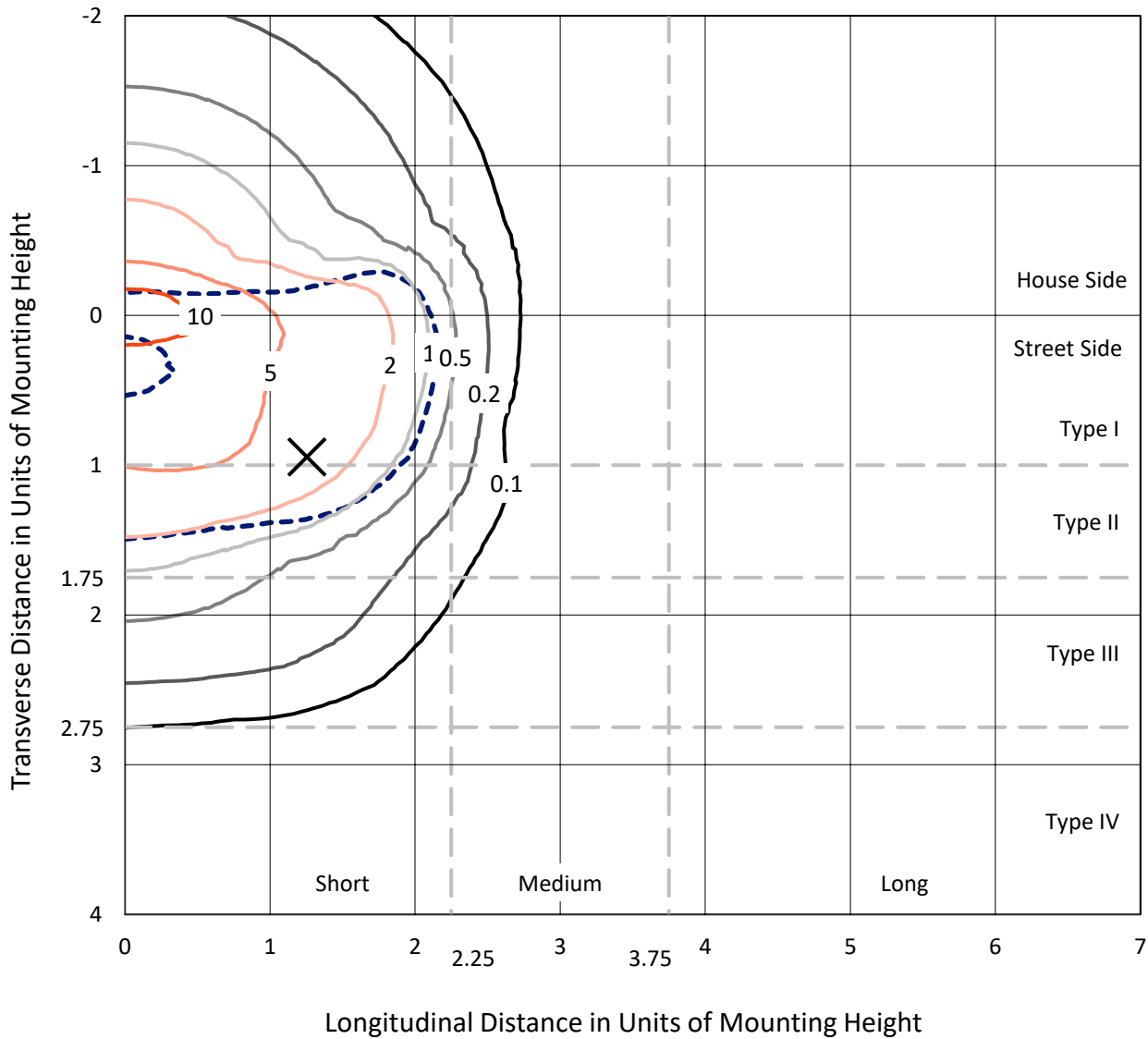
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

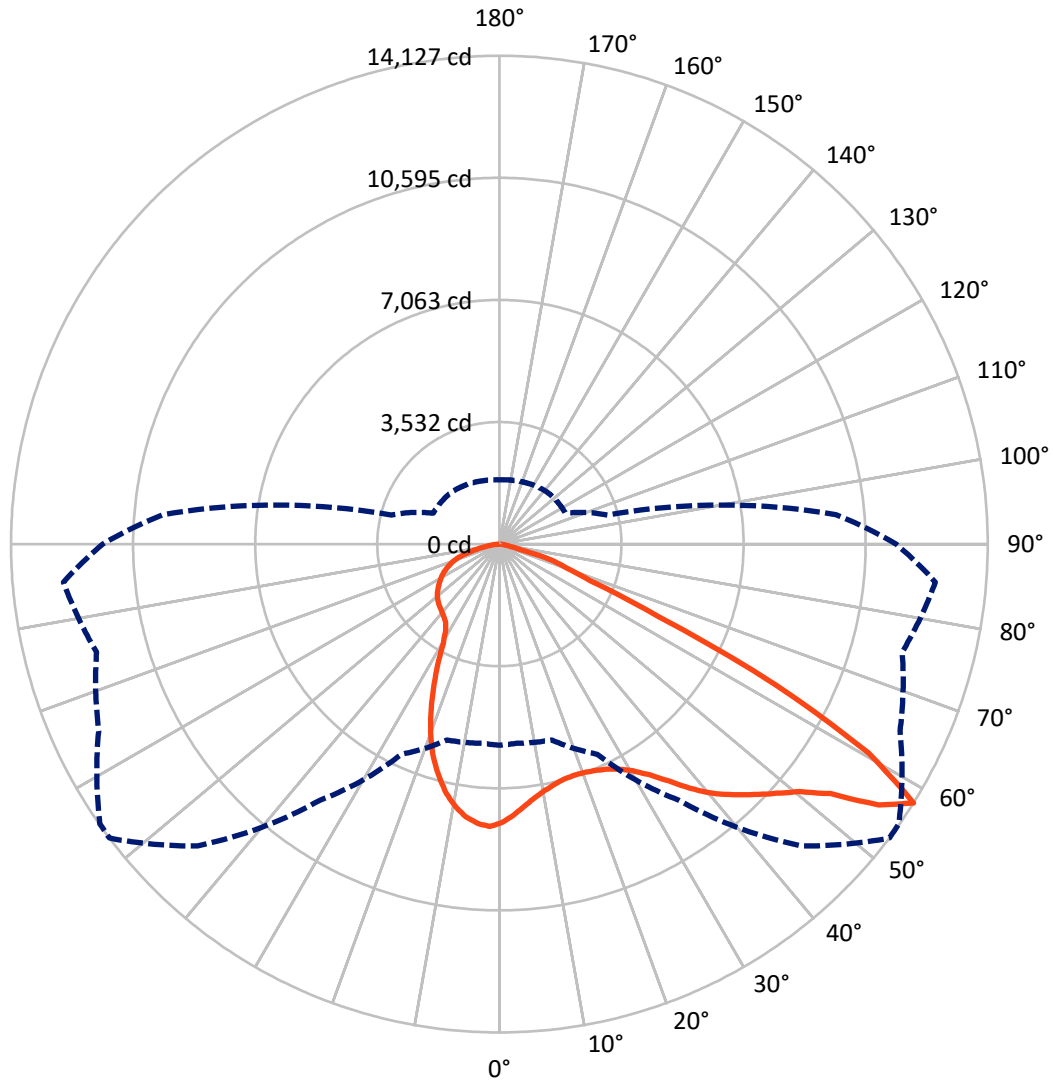
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	7890.2	0.0	7890.2
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	17345.4	0.0	17345.4
	% Fixture	68.7	0.0	68.7
Total	Lumens	25235.6	0.0	25235.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.7	2.9
10°-20°	1911.8	7.6
20°-30°	2816.8	11.2
30°-40°	3942.8	15.6
40°-50°	5183.1	20.5
50°-60°	6077.2	24.1
60°-70°	3580.1	14.2
70°-80°	890.6	3.5
80°-90°	104.5	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°	25235.6	100.0
0°-180°	25235.6	100.0

Coefficient of Utilization



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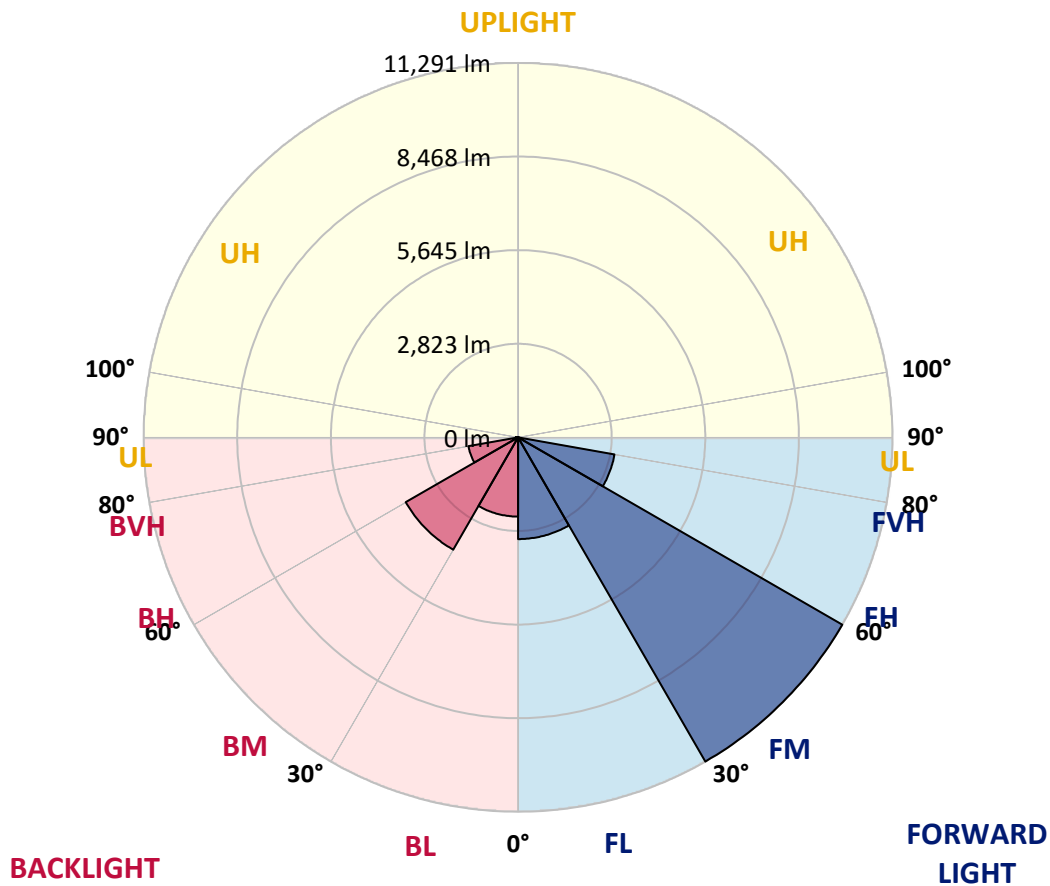
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3068.2	12.2			
FM (30°-60°)	11290.6	44.7			
FH (60°-80°)	2951.6	11.7			G2/5000
FVH (80°-90°)	35.0	0.1			G1/100
BL (0°-30°)	2389.2	9.5	B3/2500		
BM (30°-60°)	3912.4	15.5	B3/5000		
BH (60°-80°)	1519.1	6.0	B3/2500		G3/2500
BVH (80°-90°)	69.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4
2.5°	7595.4	7616.6	7620.9	7686.7	7691.0	7786.5	7850.3	7837.5	7903.4	7984.1	8047.8
5°	7232.2	7234.3	7255.5	7334.1	7376.6	7501.9	7608.1	7608.1	7735.6	7901.2	8043.5
7.5°	6932.7	6930.6	6949.7	7036.8	7106.9	7257.7	7402.1	7419.1	7597.5	7839.6	8071.2
10°	6654.5	6669.3	6690.6	6796.8	6886.0	7072.9	7244.9	7272.5	7497.7	7797.2	8109.4
12.5°	6476.0	6478.2	6510.0	6629.0	6743.7	6943.3	7123.9	7157.8	7417.0	7756.8	8137.0
15°	6361.3	6363.5	6397.5	6529.1	6662.9	6864.7	7049.5	7087.7	7370.2	7750.4	8190.1
17.5°	6310.4	6308.2	6340.1	6471.8	6618.3	6828.6	7026.2	7072.9	7391.5	7799.3	8283.6
20°	6310.4	6312.5	6329.5	6448.4	6597.1	6820.1	7049.5	7106.9	7474.3	7909.7	8428.0
22.5°	6399.6	6408.1	6416.6	6497.3	6614.1	6832.9	7111.1	7187.6	7652.7	8094.5	8617.0
25°	6573.7	6575.9	6584.4	6650.2	6703.3	6869.0	7213.1	7327.8	7931.0	8364.3	8854.9
27.5°	6807.4	6837.1	6845.6	6888.1	6888.1	6958.2	7372.4	7538.0	8306.9	8753.0	9158.6
30°	7134.5	7145.1	7160.0	7206.7	7155.7	7126.0	7606.0	7818.4	8742.3	9222.4	9524.0
32.5°	7421.2	7444.6	7525.3	7601.8	7510.4	7417.0	7950.1	8200.7	9160.8	9710.9	9912.7
35°	7665.5	7722.8	7877.9	8047.8	7984.1	7890.6	8406.7	8668.0	9504.8	10061.3	10256.7
37.5°	7960.7	8005.3	8217.7	8493.8	8551.2	8506.6	8963.2	9150.1	9734.2	10150.5	10443.6
40°	8260.2	8328.2	8602.1	8984.5	9203.2	9235.1	9477.2	9602.5	9812.8	9976.4	10407.5
42.5°	8566.0	8682.9	9058.8	9504.8	9893.5	9965.7	9910.5	9963.6	9787.3	9736.4	10239.7
45°	8939.9	9077.9	9502.7	10071.9	10583.8	10696.4	10335.3	10286.5	9783.1	9645.0	10135.7
47.5°	9381.7	9519.7	9925.4	10588.1	11242.3	11325.1	10770.7	10681.5	9931.8	9785.2	10275.9
50°	9772.5	9868.0	10231.2	10972.5	11856.1	11905.0	11250.8	11142.4	10301.3	10173.9	10713.4
52.5°	9375.3	9364.7	9747.0	10660.3	12174.7	12763.0	11989.9	11885.8	11015.0	10819.6	11390.9
55°	7954.3	7833.3	8175.2	9073.7	11284.7	13525.6	13315.3	13107.1	11966.5	11469.5	12026.0
57.5°	5815.5	5781.5	5864.3	6707.6	9039.7	12344.6	14126.6	14107.5	12788.5	12064.2	12659.0
60°	4547.5	4496.5	4275.6	4299.0	6161.7	9642.9	12259.7	12822.5	13298.3	12421.1	13100.8
62.5°	4037.7	3999.5	3884.8	3568.3	3670.3	6465.4	8986.6	9502.7	11620.3	10970.4	11252.9
65°	3343.2	3332.5	3428.1	3415.4	3075.5	3570.4	5072.1	5592.5	7306.5	7397.8	7306.5
67.5°	2429.8	2410.7	2652.9	3130.8	2960.8	2695.3	2827.0	3007.6	3746.7	3364.4	3028.8
70°	1580.2	1552.6	1692.8	2262.0	2650.7	2349.1	2036.9	2007.2	2060.3	1280.8	1384.8
72.5°	1059.9	1028.0	1025.9	1244.7	1601.5	1582.4	1578.1	1563.3	1395.5	1011.0	1121.5
75°	590.5	565.0	558.6	537.4	573.5	584.1	622.3	643.6	696.7	766.8	849.6
77.5°	99.8	97.7	123.2	157.2	216.6	278.2	344.1	363.2	448.2	531.0	584.1
80°	55.2	57.3	74.3	91.3	121.1	165.7	212.4	225.1	276.1	320.7	363.2
82.5°	29.7	29.7	38.2	48.9	65.8	87.1	114.7	125.3	159.3	186.9	216.6
85°	10.6	10.6	14.9	19.1	27.6	36.1	44.6	51.0	70.1	95.6	108.3
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	8.5	8.5	10.6	19.1	27.6
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°	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4	8058.4
2.5°	8100.9	8043.5	8122.1	8158.2	8171.0	8179.5	8124.3	8086.0	8073.3	8032.9	8009.6
5°	8130.6	8092.4	8166.7	8166.7	8113.6	8058.4	7945.8	7867.2	7812.0	7746.2	7735.6
7.5°	8181.6	8154.0	8194.3	8111.5	7977.7	7829.0	7633.6	7480.7	7357.5	7276.8	7278.9
10°	8249.6	8215.6	8183.7	7998.9	7754.7	7480.7	7181.2	6958.2	6754.3	6660.8	6609.8
12.5°	8294.2	8245.3	8111.5	7805.7	7446.7	7079.3	6656.6	6325.2	6030.0	5896.2	5885.6
15°	8349.4	8260.2	7992.6	7555.0	7055.9	6554.6	6010.9	5550.0	5150.7	4942.5	4931.9
17.5°	8421.6	8275.1	7850.3	7268.3	6643.8	5904.7	5220.8	4640.9	4216.1	4054.7	4082.3
20°	8523.6	8292.0	7688.8	6949.7	6132.0	5165.5	4313.8	3780.7	3617.2	3606.5	3585.3
22.5°	8638.3	8302.7	7510.4	6592.9	5511.7	4377.5	3564.1	3336.8	3334.7	3387.8	3400.5
25°	8767.8	8311.2	7308.6	6176.6	4840.6	3591.7	3152.0	3084.0	3137.1	3237.0	3249.7
27.5°	8933.5	8328.2	7064.4	5719.9	4126.9	3103.1	2924.7	2907.7	2971.5	3064.9	3060.7
30°	9177.8	8389.8	6805.3	5195.3	3394.1	2871.6	2786.7	2788.8	2814.3	2858.9	2865.3
32.5°	9426.3	8485.3	6552.5	4604.8	2973.6	2739.9	2701.7	2697.5	2697.5	2716.6	2720.8
35°	9662.0	8593.7	6278.5	3988.8	2769.7	2663.5	2638.0	2625.2	2618.9	2614.6	2608.3
37.5°	9793.7	8646.8	6010.9	3381.4	2661.4	2612.5	2587.0	2570.0	2546.7	2529.7	2525.4
40°	9736.4	8585.2	5700.8	2926.9	2595.5	2563.7	2533.9	2510.6	2478.7	2463.8	2455.3
42.5°	9545.2	8394.0	5363.1	2712.3	2542.4	2510.6	2474.4	2436.2	2415.0	2402.2	2400.1
45°	9343.4	8162.5	4955.3	2587.0	2491.4	2453.2	2410.7	2368.2	2344.9	2338.5	2336.4
47.5°	9337.0	8047.8	4522.0	2487.2	2429.8	2391.6	2338.5	2296.0	2270.5	2262.0	2253.6
50°	9617.4	8164.6	4033.5	2400.1	2366.1	2325.8	2266.3	2219.6	2187.7	2177.1	2175.0
52.5°	10199.4	8604.3	3595.9	2313.0	2281.2	2234.4	2185.6	2138.9	2100.6	2081.5	2079.4
55°	10828.1	9162.9	3324.0	2223.8	2181.3	2141.0	2096.4	2045.4	2002.9	1973.2	1968.9
57.5°	11478.0	9772.5	3241.2	2111.2	2079.4	2051.8	1998.7	1943.4	1894.6	1867.0	1860.6
60°	12013.3	10297.1	3396.3	1992.3	1975.3	1939.2	1890.3	1837.2	1803.3	1782.0	1777.8
62.5°	10057.1	8383.4	2742.1	1862.7	1862.7	1824.5	1769.3	1731.0	1707.7	1692.8	1688.6
65°	6382.6	5191.0	1871.2	1733.2	1731.0	1680.1	1633.3	1607.9	1597.2	1573.9	1569.6
67.5°	2780.3	2372.5	1599.4	1601.5	1593.0	1537.8	1491.0	1471.9	1450.7	1425.2	1423.1
70°	1442.2	1469.8	1431.6	1454.9	1440.1	1374.2	1329.6	1299.9	1255.3	1229.8	1231.9
72.5°	1163.9	1193.7	1236.2	1272.3	1240.4	1187.3	1117.2	1081.1	1023.8	996.2	998.3
75°	887.8	919.7	960.0	998.3	972.8	906.9	862.3	826.2	760.4	728.5	734.9
77.5°	611.7	628.7	677.6	675.4	666.9	647.8	582.0	539.5	471.5	433.3	437.5
80°	380.2	390.8	414.2	424.8	420.5	395.1	342.0	310.1	269.7	246.4	248.5
82.5°	229.4	235.8	257.0	259.1	257.0	237.9	197.5	174.2	148.7	135.9	135.9
85°	116.8	121.1	133.8	133.8	121.1	102.0	91.3	80.7	65.8	59.5	59.5
87.5°	31.9	31.9	40.4	34.0	27.6	25.5	12.7	10.6	4.2	2.1	2.1
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)