

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: P640860

Luminaire Tested: GWS-SA5E-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38619.9 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

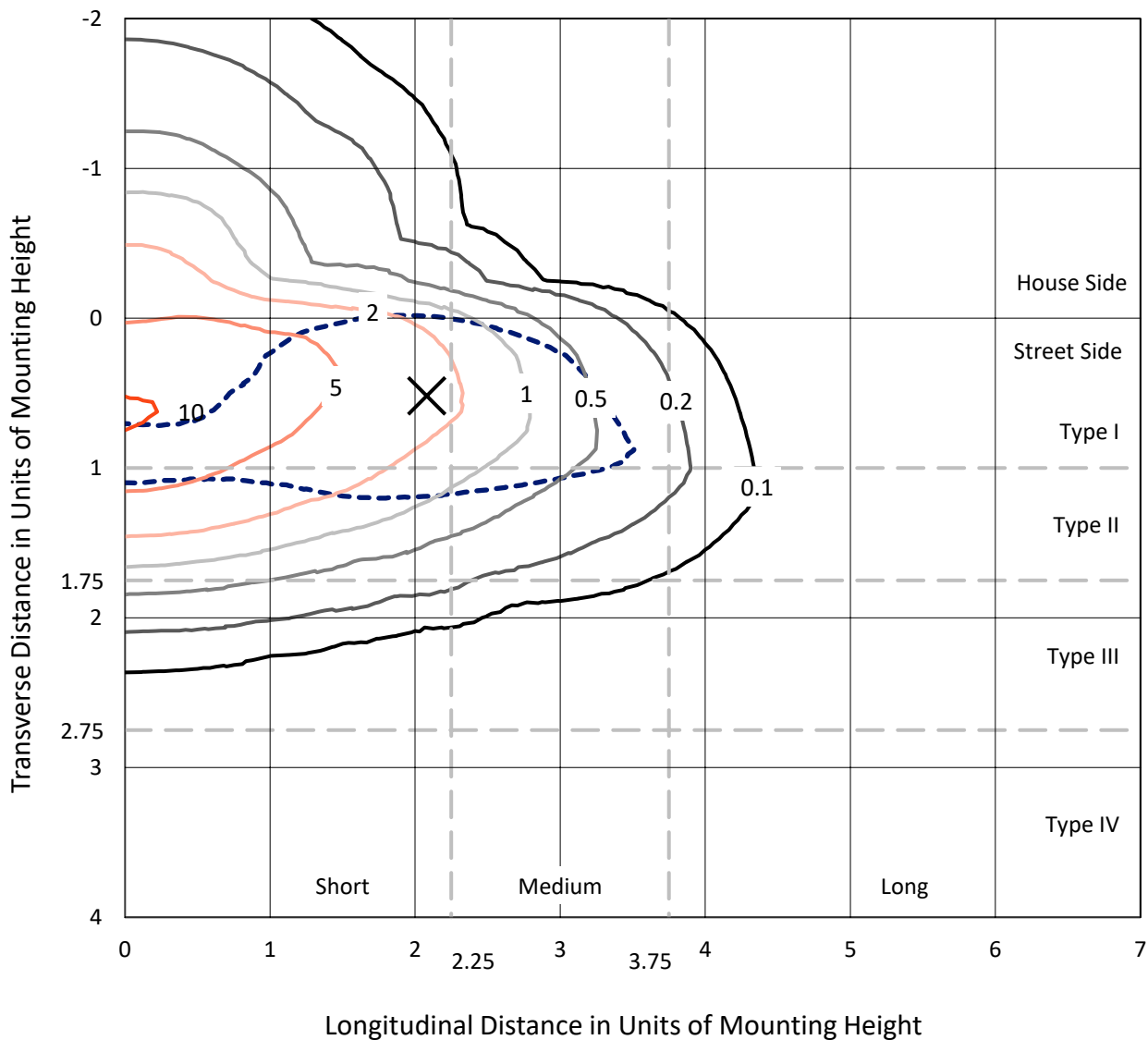


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Iso-Footcandle Lines of Horizontal Illumination

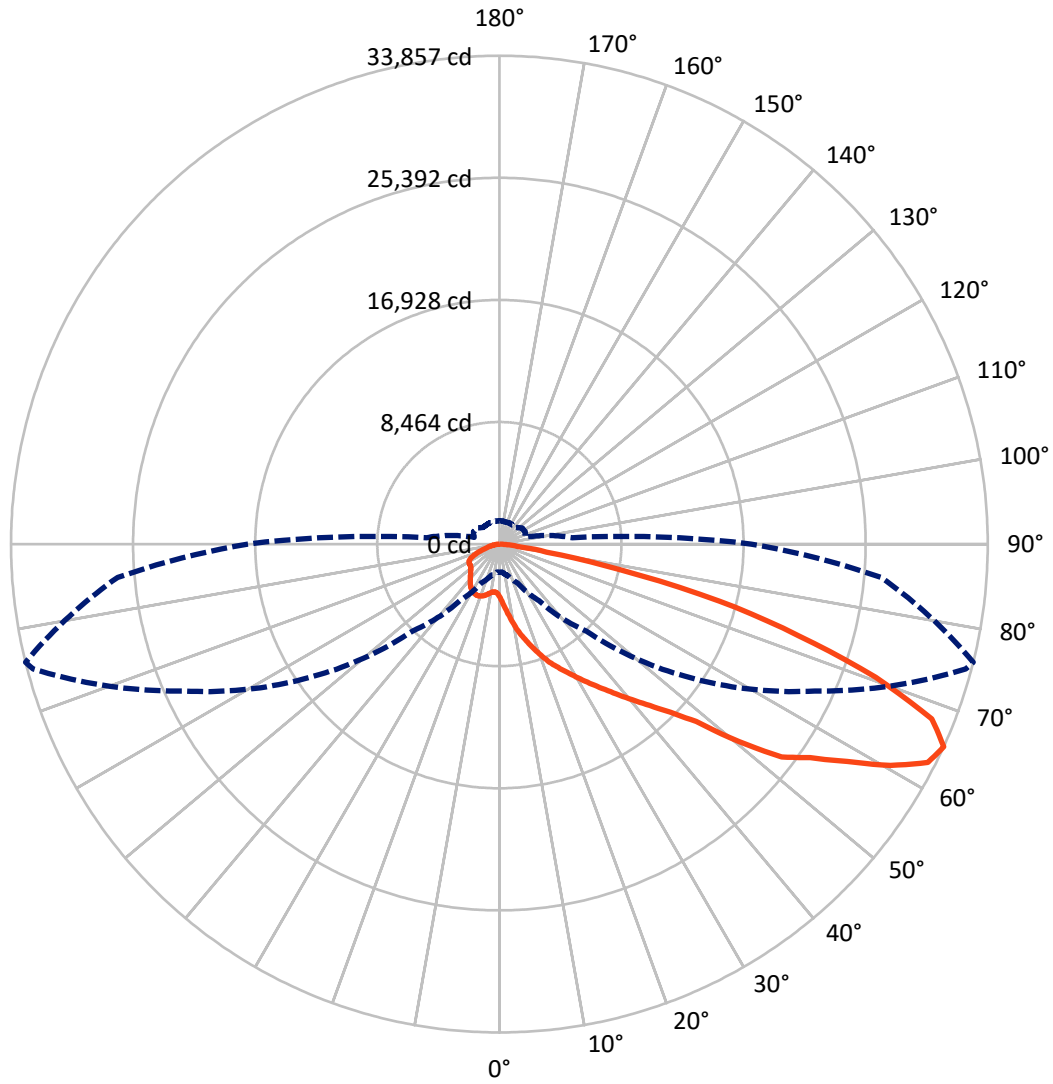
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6455.4	0.0	6455.4
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	32164.5	0.0	32164.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	38619.9	0.0	38619.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	1.1
10°-20°	1654.9	4.3
20°-30°	3225.2	8.4
30°-40°	5394.0	14.0
40°-50°	7723.1	20.0
50°-60°	9143.1	23.7
60°-70°	7602.6	19.7
70°-80°	3111.2	8.1
80°-90°	331.2	0.9
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°	38619.9	100.0
0°-180°	38619.9	100.0

Coefficient of Utilization



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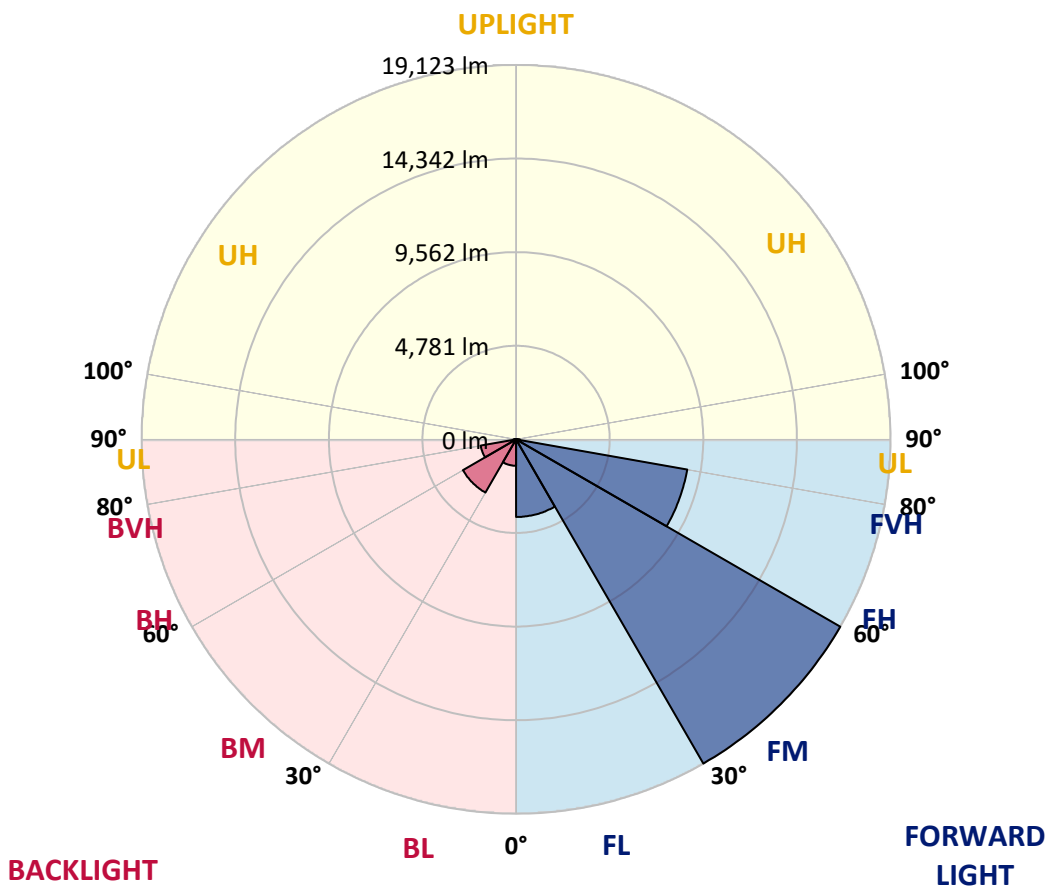
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3964.2	10.3			
FM (30°-60°)	19123.1	49.5			
FH (60°-80°)	8879.7	23.0			G4/12000
FVH (80°-90°)	197.5	0.5			G2/225
BL (0°-30°)	1350.5	3.5	B3/2500		
BM (30°-60°)	3137.2	8.1	B3/5000		
BH (60°-80°)	1834.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	133.7	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2
2.5°	5126.0	5145.0	5082.6	5060.8	4914.2	4716.0	4550.4	4300.6	4069.8	4034.6	3828.2
5°	6510.7	6429.2	6358.6	6312.5	6108.8	5883.5	5533.3	5063.6	4572.1	4512.4	4067.1
7.5°	7333.3	7319.8	7232.9	7205.7	7048.2	6822.9	6461.8	5878.1	5164.0	5066.3	4390.2
10°	7993.1	7984.9	7941.5	7965.9	7822.0	7602.1	7251.9	6649.1	5812.9	5715.2	4751.3
12.5°	8568.7	8582.2	8574.1	8663.7	8590.4	8419.3	8055.5	7393.1	6461.8	6355.9	5191.2
15°	8989.5	9000.4	9041.1	9236.6	9277.3	9242.0	8872.8	8123.4	7102.6	6950.5	5644.6
17.5°	9109.0	9130.7	9228.4	9543.4	9763.3	9909.9	9635.7	8867.3	7732.4	7566.8	6106.1
20°	9269.2	9293.6	9391.3	9719.9	10042.9	10376.9	10328.0	9622.1	8367.8	8232.0	6573.1
22.5°	10010.4	9991.4	9947.9	10105.4	10336.2	10751.6	10873.7	10347.0	9024.8	8894.5	7089.0
25°	11438.5	11403.2	11126.2	10982.3	10906.3	11158.8	11376.0	11006.8	9665.6	9470.1	7569.5
27.5°	13013.2	12994.2	12641.2	12299.1	11832.2	11723.6	11851.2	11582.4	10287.3	10089.1	7987.7
30°	14503.8	14446.7	14077.5	13648.5	13024.1	12557.1	12369.7	12147.1	10968.8	10762.4	8476.4
32.5°	15836.8	15763.5	15329.1	14854.0	14199.7	13648.5	13089.2	12747.1	11739.8	11500.9	8975.9
35°	16931.0	16857.7	16412.4	15907.4	15187.9	14780.7	14015.0	13398.7	12524.5	12282.9	9565.1
37.5°	17778.1	17710.2	17245.9	16749.1	16121.9	15798.8	15133.6	14131.8	13428.6	13176.1	10189.6
40°	18253.2	18204.4	17832.4	17438.7	16912.0	16632.3	16333.7	15057.6	14441.3	14188.8	10925.3
42.5°	18397.1	18364.5	18103.9	17900.3	17544.6	17332.8	17503.9	16146.4	15521.9	15302.0	11753.4
45°	18036.0	18036.0	17960.0	18063.2	18079.5	18076.8	18676.8	17376.3	16849.6	16607.9	12920.9
47.5°	17112.9	17172.6	17284.0	17791.7	18326.5	18774.5	20047.9	19016.2	18557.3	18359.1	14574.3
50°	15424.2	15587.1	15967.2	16958.2	18095.8	19236.1	21345.7	21440.7	21877.8	21527.6	17007.0
52.5°	12950.8	12926.3	13895.6	15307.4	17042.3	19255.1	22059.7	23580.1	24755.8	24514.1	18815.2
55°	10292.7	10252.0	11156.1	13102.8	15426.9	18527.4	22488.7	24560.3	26352.2	26135.0	20441.6
57.5°	7881.8	7830.2	8633.8	10390.5	13146.2	16982.6	22407.2	25727.7	28548.7	28437.4	22651.6
60°	5424.7	5362.2	6114.3	7651.0	10447.5	14620.5	21505.8	26327.8	31119.8	31157.8	25016.4
62.5°	3258.1	3222.8	3768.5	4960.4	7515.2	11693.7	19396.3	25963.9	33167.0	33338.0	26536.8
65°	1965.7	1941.3	2261.6	2959.4	4767.6	8533.4	16143.6	24104.1	33462.9	33856.6	26572.1
67.5°	1430.8	1433.5	1525.9	1802.8	2780.2	5511.5	12114.5	20770.1	31920.8	32328.0	24896.9
70°	1243.5	1248.9	1297.8	1360.2	1680.6	3154.9	7876.3	16396.1	27362.2	27677.1	20881.4
72.5°	1105.0	1105.0	1137.6	1170.2	1314.1	1922.2	4219.2	11460.2	21595.4	21679.6	15937.3
75°	972.0	963.8	980.1	996.4	1140.3	1343.9	2052.6	7984.9	15950.9	15755.4	10300.9
77.5°	773.8	765.6	768.4	784.6	915.0	961.1	1039.9	4987.5	8989.5	8484.5	4550.4
80°	551.2	545.7	575.6	616.3	676.0	589.2	651.6	2413.7	3564.9	3317.8	1764.8
82.5°	328.5	339.4	385.5	418.1	467.0	369.2	420.8	806.4	1262.5	1229.9	716.8
85°	46.2	48.9	138.5	160.2	200.9	143.9	222.6	363.8	505.0	540.3	252.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	19.0	65.2	143.9	146.6	62.4
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°	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2
2.5°	3722.3	3594.7	3412.8	3260.8	3133.2	3030.0	2943.1	2877.9	2858.9	2831.8	2831.8
5°	3858.1	3627.3	3301.5	3070.7	2937.7	2858.9	2804.6	2777.5	2763.9	2747.6	2739.5
7.5°	4045.4	3722.3	3282.5	3049.0	2945.8	2896.9	2861.7	2845.4	2834.5	2818.2	2818.2
10°	4303.3	3863.5	3342.2	3125.0	3043.6	2994.7	2954.0	2926.8	2902.4	2877.9	2872.5
12.5°	4583.0	4048.1	3450.8	3228.2	3141.3	3081.6	3024.6	2983.8	2954.0	2924.1	2916.0
15°	4892.5	4238.2	3567.6	3328.6	3220.0	3138.6	3070.7	3008.3	2967.5	2924.1	2918.7
17.5°	5196.6	4430.9	3665.3	3396.5	3258.1	3157.6	3059.9	2978.4	2926.8	2877.9	2864.4
20°	5560.4	4623.7	3733.2	3415.5	3249.9	3116.9	3000.1	2896.9	2839.9	2782.9	2774.8
22.5°	5894.4	4802.9	3765.8	3388.4	3187.5	3030.0	2894.2	2782.9	2720.5	2663.5	2652.6
25°	6217.4	4960.4	3752.2	3323.2	3092.4	2910.5	2769.3	2658.0	2598.3	2538.6	2522.3
27.5°	6529.7	5066.3	3697.9	3222.8	2973.0	2777.5	2641.7	2541.3	2489.7	2438.1	2416.4
30°	6836.5	5164.0	3613.7	3092.4	2820.9	2639.0	2527.7	2457.1	2405.5	2351.2	2334.9
32.5°	7146.0	5234.6	3486.1	2940.4	2666.2	2516.8	2449.0	2397.4	2343.1	2288.8	2272.5
35°	7458.2	5264.5	3331.4	2766.6	2535.8	2438.1	2413.7	2353.9	2280.6	2215.5	2193.8
37.5°	7830.2	5291.6	3138.6	2595.6	2421.8	2400.1	2394.7	2305.1	2218.2	2128.6	2104.2
40°	8278.2	5326.9	2940.4	2440.8	2329.5	2386.5	2364.8	2242.6	2068.9	1982.0	1954.8
42.5°	8826.6	5392.1	2734.0	2299.6	2261.6	2334.9	2310.5	2090.6	1973.8	1925.0	1911.4
45°	9633.0	5631.0	2527.7	2188.3	2210.0	2261.6	2223.6	2001.0	1954.8	1922.2	1906.0
47.5°	11069.2	5997.5	2348.5	2104.2	2169.3	2196.5	2049.9	1976.6	1941.3	1897.8	1878.8
50°	12562.5	6157.7	2204.6	2052.6	2123.2	2136.7	1954.8	1944.0	1919.5	1873.4	1854.4
52.5°	13572.5	6136.0	2117.7	2033.6	2085.2	2033.6	1911.4	1908.7	1892.4	1838.1	1816.4
55°	14712.8	6174.0	2079.7	2039.0	2068.9	1859.8	1857.1	1865.2	1857.1	1797.4	1786.5
57.5°	16252.2	6290.8	2060.7	2058.0	2058.0	1775.6	1805.5	1816.4	1800.1	1772.9	1764.8
60°	17731.9	6298.9	2025.4	2079.7	2049.9	1724.1	1745.8	1756.6	1737.6	1732.2	1729.5
62.5°	18288.5	5907.9	1946.7	2063.4	2017.3	1667.0	1683.3	1688.8	1669.8	1683.3	1680.6
65°	17460.4	5077.1	1816.4	1984.7	1916.8	1615.5	1604.6	1618.2	1585.6	1620.9	1623.6
67.5°	15502.9	4034.6	1618.2	1835.4	1775.6	1558.4	1536.7	1536.7	1482.4	1536.7	1534.0
70°	12500.1	2850.8	1327.7	1596.4	1620.9	1490.6	1479.7	1417.3	1330.4	1411.8	1403.7
72.5°	9475.5	2047.1	1045.3	1262.5	1395.5	1395.5	1398.2	1292.4	1191.9	1229.9	1197.3
75°	6003.0	1441.7	836.2	966.6	1094.2	1224.5	1286.9	1091.4	1001.9	985.6	969.3
77.5°	2704.2	947.5	651.6	741.2	776.5	966.6	1175.6	939.4	817.2	781.9	771.1
80°	1132.2	589.2	464.3	524.0	477.8	811.8	1037.1	730.3	600.0	551.2	515.9
82.5°	496.9	350.2	295.9	282.4	298.7	602.7	773.8	486.0	374.7	507.7	513.1
85°	209.1	184.6	152.0	138.5	122.2	230.8	363.8	190.1	233.5	133.0	108.6
87.5°	48.9	54.3	40.7	27.2	16.3	2.7	0.0	0.0	0.0	0.0	0.0
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)