

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: P640141

Luminaire Tested: GWS-SA5D-730-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27141 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

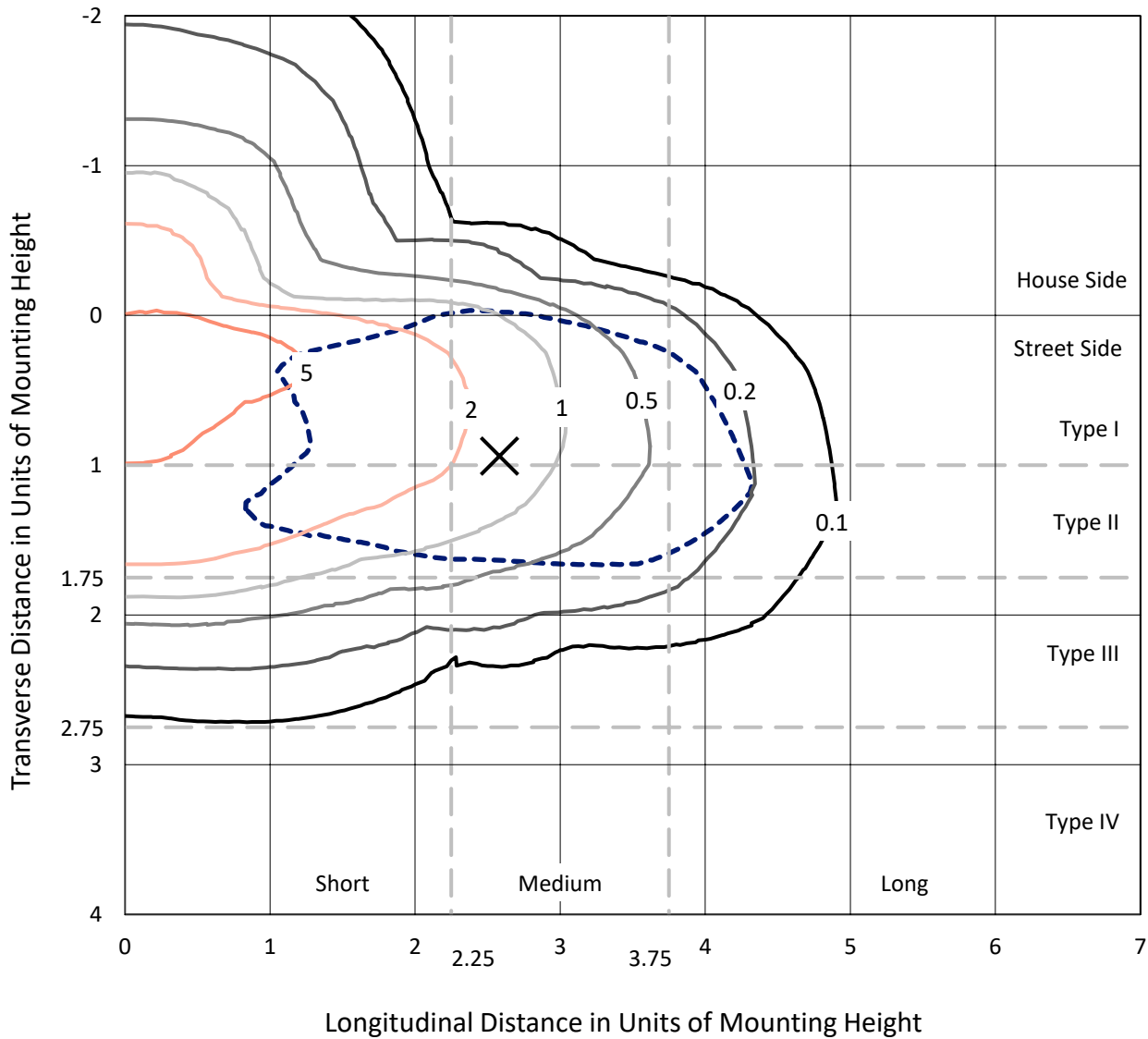
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

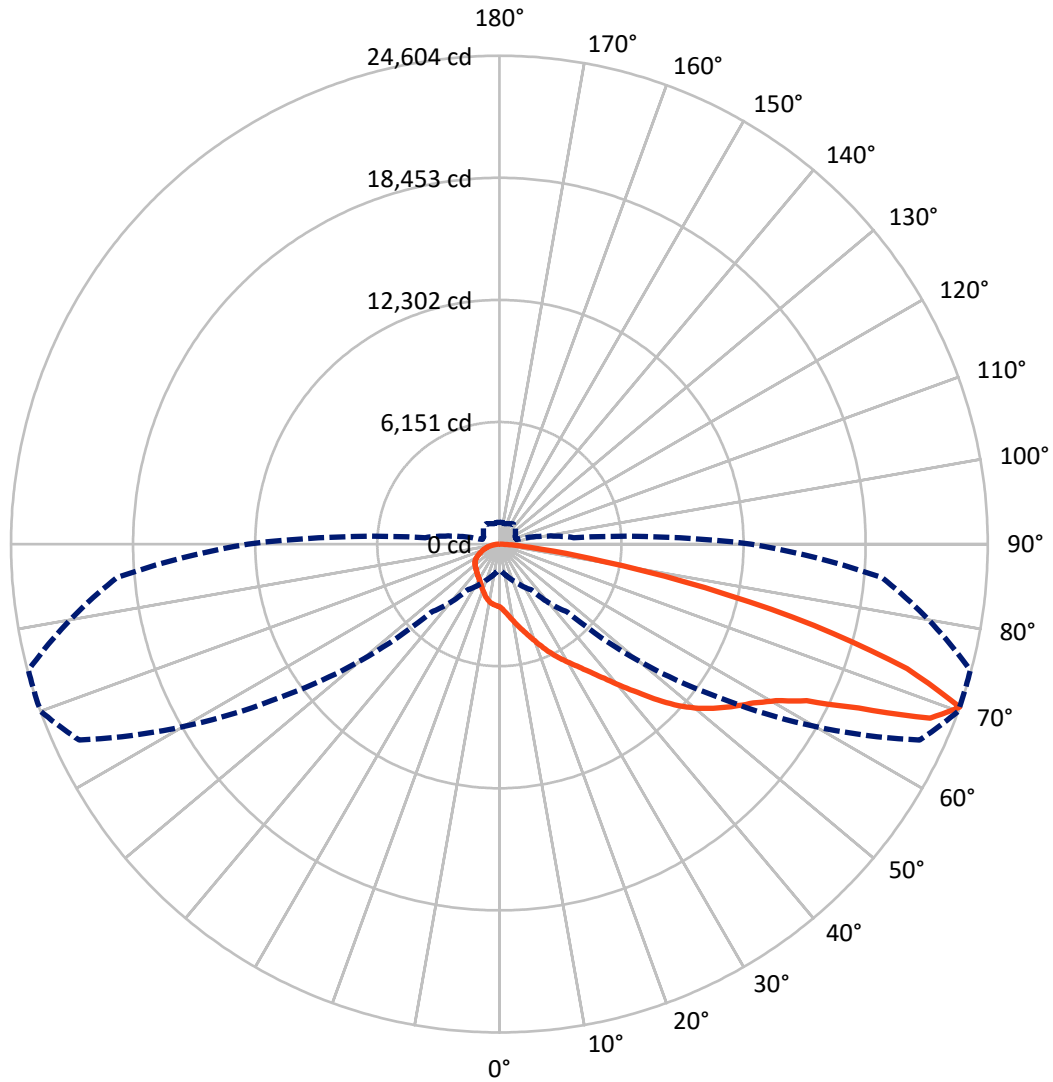
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4863.7	0.0	4863.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	22277.3	0.0	22277.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	27141.0	0.0	27141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	1.2
10°-20°	1046.5	3.9
20°-30°	1853.9	6.8
30°-40°	2790.2	10.3
40°-50°	4221.3	15.6
50°-60°	6047.2	22.3
60°-70°	6684.5	24.6
70°-80°	3772.2	13.9
80°-90°	403.5	1.5
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°	27141.0	100.0
0°-180°	27141.0	100.0

Coefficient of Utilization



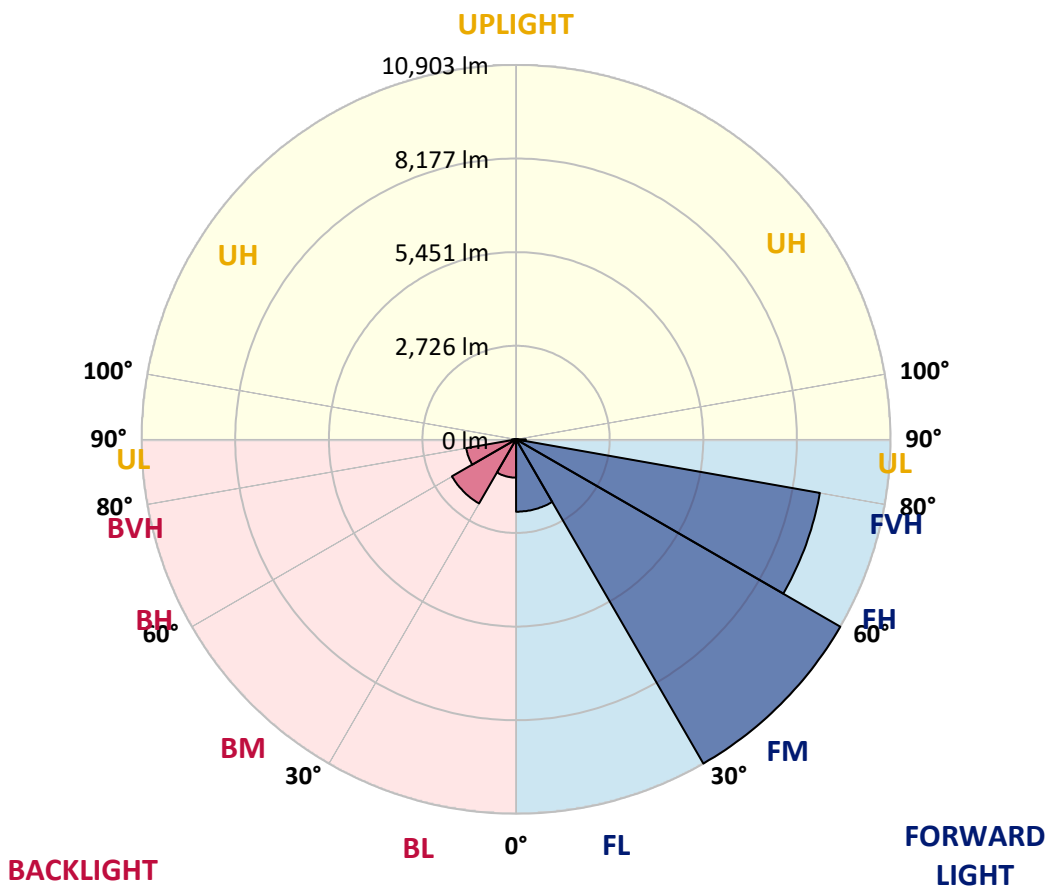
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.0	7.8			
FM (30°-60°)	10902.5	40.2			
FH (60°-80°)	8982.5	33.1			G4/12000
FVH (80°-90°)	285.2	1.1			G3/500
BL (0°-30°)	1115.2	4.1	B3/2500		
BM (30°-60°)	2156.1	7.9	B2/2500		
BH (60°-80°)	1474.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	118.3	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2
2.5°	3506.4	3500.5	3504.5	3500.5	3479.0	3426.0	3382.9	3328.0	3290.7	3269.1	3218.2
5°	3918.3	3912.4	3898.7	3879.0	3839.8	3767.3	3659.4	3539.8	3467.2	3412.3	3304.4
7.5°	4214.4	4214.4	4212.4	4188.9	4161.4	4085.0	3957.5	3800.6	3694.7	3600.6	3424.1
10°	4365.4	4375.2	4388.9	4422.3	4416.4	4375.2	4255.6	4086.9	3953.6	3843.7	3581.0
12.5°	4447.8	4453.6	4477.2	4545.8	4616.4	4626.2	4555.6	4379.1	4234.0	4086.9	3755.5
15°	4553.7	4555.6	4587.0	4669.4	4773.3	4877.2	4859.6	4683.1	4534.0	4371.3	3949.6
17.5°	4636.0	4649.7	4706.6	4802.7	4932.1	5075.3	5161.6	5051.8	4867.4	4681.1	4161.4
20°	4665.4	4675.2	4749.8	4896.8	5073.3	5275.3	5467.5	5438.1	5251.8	5032.2	4400.7
22.5°	4771.3	4771.3	4826.2	4949.8	5157.7	5451.8	5763.6	5840.1	5675.4	5418.5	4657.6
25°	5004.7	4996.9	5022.4	5073.3	5230.2	5593.0	6055.9	6285.3	6101.0	5812.7	4914.5
27.5°	5324.4	5320.4	5318.5	5326.3	5379.3	5716.6	6302.9	6701.1	6516.7	6191.2	5143.9
30°	5671.5	5659.7	5685.2	5661.7	5649.9	5863.7	6512.8	7073.7	6930.5	6565.7	5334.2
32.5°	6144.1	6122.5	6116.6	6040.2	5993.1	6093.1	6681.4	7497.3	7383.5	6969.7	5547.9
35°	6767.7	6748.1	6648.1	6526.5	6387.3	6434.3	6891.3	7911.0	7918.9	7475.7	5828.4
37.5°	7397.2	7401.2	7322.7	7036.4	6893.2	6865.8	7210.9	8415.0	8583.7	8079.7	6191.2
40°	7920.9	7944.4	7944.4	7642.4	7428.6	7403.1	7660.0	9013.2	9348.5	8821.0	6650.1
42.5°	8319.0	8340.5	8409.2	8191.5	7966.0	8054.2	8205.2	9613.3	10215.3	9736.8	7230.5
45°	8756.3	8773.9	8811.2	8685.7	8554.3	8789.6	8823.0	10331.0	11207.6	10764.4	7905.2
47.5°	9336.8	9321.1	9325.0	9232.8	9130.8	9511.3	9503.5	10935.0	12166.6	11890.1	8636.6
50°	10058.4	10087.9	10060.4	9878.0	9758.4	10105.5	10150.6	11603.8	13009.9	13004.0	9374.0
52.5°	10752.7	10764.4	10909.6	10917.4	10672.3	10599.7	10717.4	12278.4	13721.8	14023.8	10082.0
55°	10788.0	10833.1	11268.4	11582.2	11978.4	11395.9	11290.0	12921.6	14410.1	15022.0	10817.4
57.5°	10036.9	10109.4	10848.8	11525.3	12627.5	12762.8	12270.6	13753.1	15098.4	16004.5	11668.5
60°	8432.7	8583.7	9587.8	10623.2	12335.3	13745.3	14276.8	14882.7	16002.5	17008.6	12702.0
62.5°	5385.2	5444.0	6852.1	8585.7	11019.4	13649.2	16461.4	16873.2	17379.2	18316.6	14294.4
65°	2696.5	2884.8	3710.4	5124.3	7946.3	12027.4	17565.5	20518.9	19899.2	20556.2	16875.2
67.5°	1829.7	1890.5	2308.2	3078.9	4659.6	8520.9	16881.1	23590.0	23407.6	23515.5	19626.6
70°	1349.2	1388.5	1717.9	2180.7	2818.1	4838.0	13439.4	23358.6	24603.9	24564.6	19338.3
72.5°	984.5	1004.1	1253.1	1665.0	2088.6	2502.4	8207.2	18869.6	21477.9	22609.4	16912.5
75°	715.8	739.3	870.7	1245.3	1623.8	1561.0	4051.6	13629.6	16379.0	18555.9	13778.6
77.5°	533.4	562.8	623.6	780.5	1137.4	1117.8	1751.3	8850.4	10593.8	12119.5	8369.9
80°	384.4	390.3	425.6	500.1	721.7	655.0	833.5	4614.4	5291.0	5797.0	3280.9
82.5°	233.4	239.3	284.4	307.9	447.1	411.8	433.4	1494.4	2141.5	2272.9	1225.7
85°	68.6	72.6	129.4	141.2	186.3	176.5	174.5	607.9	725.6	927.6	482.4
87.5°	0.0	0.0	0.0	0.0	2.0	11.8	21.6	107.9	162.8	225.5	117.7
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°	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2	3165.2
2.5°	3198.5	3153.4	3129.9	3088.7	3059.3	3029.9	3000.5	2973.0	2961.2	2943.6	2947.5
5°	3255.4	3184.8	3114.2	3033.8	2965.2	2908.3	2857.3	2812.2	2792.6	2774.9	2782.8
7.5°	3341.7	3235.8	3100.5	2953.4	2845.5	2767.1	2714.2	2682.8	2673.0	2659.2	2659.2
10°	3451.5	3292.7	3055.4	2845.5	2716.1	2653.4	2629.8	2627.9	2637.7	2639.6	2635.7
12.5°	3573.1	3347.6	2988.7	2718.1	2608.3	2588.6	2606.3	2639.6	2673.0	2690.6	2686.7
15°	3698.6	3382.9	2875.0	2596.5	2529.8	2555.3	2612.2	2678.9	2743.6	2776.9	2774.9
17.5°	3816.3	3390.7	2727.9	2478.8	2461.2	2525.9	2623.9	2727.9	2816.1	2863.2	2865.2
20°	3947.7	3377.0	2576.9	2372.9	2392.5	2498.4	2627.9	2753.4	2857.3	2904.4	2916.1
22.5°	4067.3	3329.9	2429.8	2272.9	2333.7	2465.1	2596.5	2714.2	2806.3	2851.4	2867.1
25°	4175.2	3239.7	2269.0	2188.6	2288.6	2418.0	2518.0	2600.4	2665.1	2692.6	2714.2
27.5°	4234.0	3104.4	2147.4	2121.9	2245.5	2351.3	2406.3	2431.8	2453.3	2445.5	2461.2
30°	4245.8	2935.8	2041.5	2069.0	2180.7	2259.2	2270.9	2245.5	2208.2	2147.4	2161.1
32.5°	4234.0	2741.6	1953.2	2012.1	2108.2	2155.2	2139.6	2072.9	1982.7	1888.5	1894.4
35°	4237.9	2545.5	1880.7	1949.3	2023.8	2049.3	2010.1	1917.9	1821.9	1735.6	1731.6
37.5°	4281.1	2380.8	1819.9	1888.5	1941.5	1945.4	1902.3	1806.2	1757.1	1692.4	1684.6
40°	4400.7	2259.2	1765.0	1827.7	1861.1	1859.1	1810.1	1741.4	1774.8	1753.2	1747.3
42.5°	4596.8	2184.7	1719.9	1763.0	1786.6	1790.5	1751.3	1708.1	1780.7	1753.2	1743.4
45°	4912.5	2180.7	1688.5	1698.3	1735.6	1763.0	1735.6	1686.5	1714.0	1580.6	1555.1
47.5°	5287.1	2247.4	1665.0	1641.4	1706.2	1755.2	1712.0	1633.6	1576.7	1455.1	1437.5
50°	5738.2	2382.7	1643.4	1580.6	1663.0	1725.8	1682.6	1574.8	1488.5	1423.8	1413.9
52.5°	6273.5	2561.2	1615.9	1512.0	1598.3	1710.1	1682.6	1568.9	1455.1	1396.3	1386.5
55°	6834.4	2767.1	1584.6	1429.6	1525.7	1714.0	1696.3	1527.7	1429.6	1398.3	1390.4
57.5°	7530.6	3014.2	1527.7	1333.5	1461.0	1678.7	1641.4	1504.2	1412.0	1386.5	1378.6
60°	8434.7	3380.9	1419.8	1235.5	1386.5	1615.9	1592.4	1464.9	1364.9	1343.3	1337.5
62.5°	9866.3	4002.6	1288.4	1141.4	1298.2	1484.5	1519.8	1390.4	1306.1	1304.1	1302.2
65°	12200.0	4749.8	1133.5	1057.0	1206.1	1376.7	1423.8	1313.9	1245.3	1266.9	1264.9
67.5°	13835.5	4814.5	1006.0	968.8	1098.2	1259.0	1327.7	1235.5	1161.0	1202.1	1200.2
70°	12672.6	3755.5	896.2	876.6	982.5	1131.6	1223.7	1137.4	1062.9	1102.1	1094.3
72.5°	10688.0	2878.9	792.3	780.5	864.8	998.2	1090.4	1039.4	960.9	960.9	943.3
75°	8589.6	2374.9	682.5	676.6	733.4	862.9	966.8	880.5	808.0	804.0	792.3
77.5°	4926.3	1557.1	572.6	568.7	586.4	721.7	751.1	733.4	678.5	653.0	645.2
80°	1963.1	809.9	451.1	425.6	443.2	529.5	592.2	562.8	515.8	484.4	466.7
82.5°	760.9	405.9	317.7	278.5	304.0	382.4	429.5	419.7	388.3	317.7	298.1
85°	309.9	198.1	190.2	160.8	176.5	205.9	247.1	213.8	176.5	125.5	119.6
87.5°	82.4	72.6	70.6	43.1	33.3	9.8	2.0	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)