

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: P642738

Luminaire Tested: GWS-SA6D-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36416.1 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 245.7
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

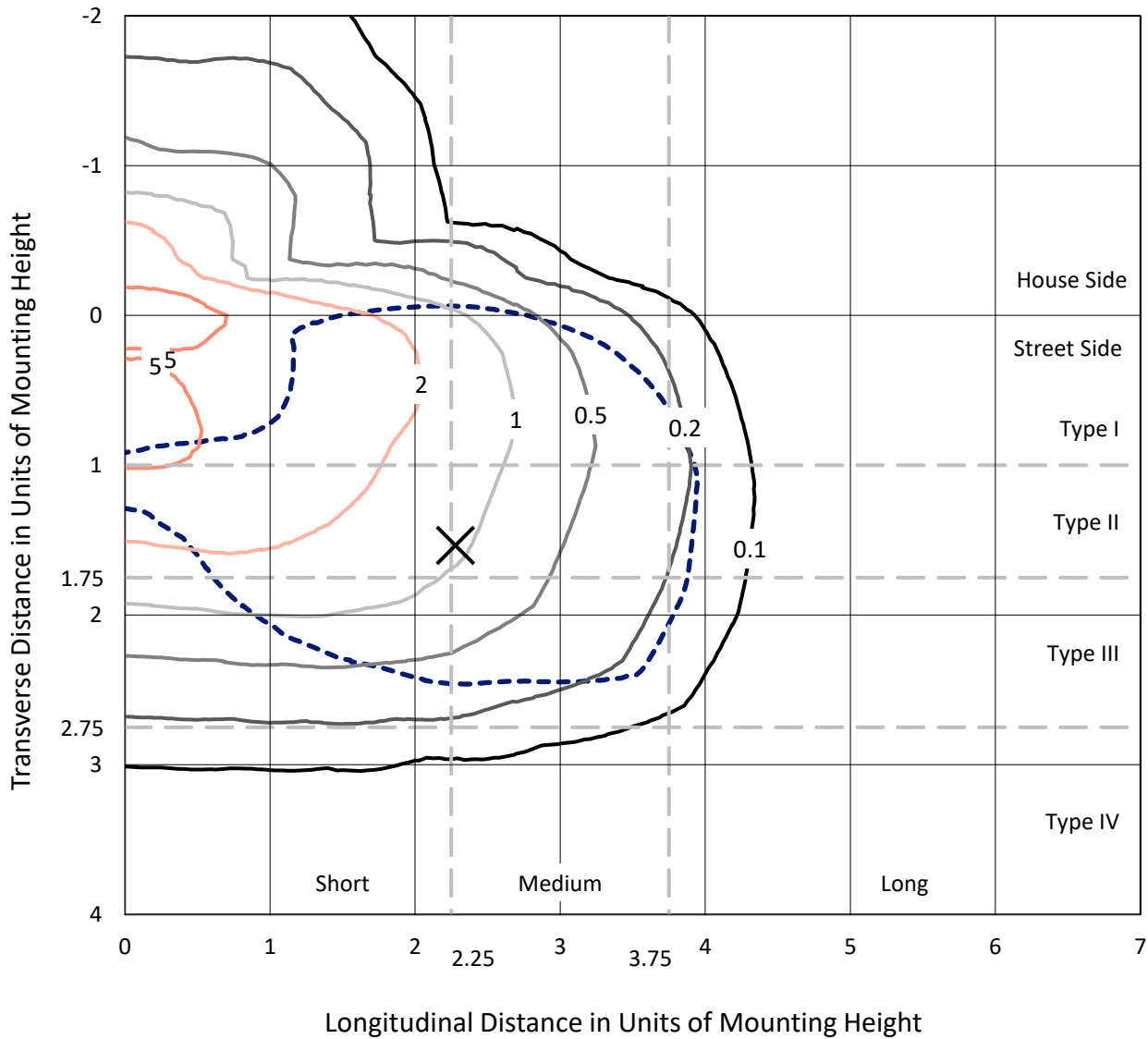


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Iso-Footcandle Lines of Horizontal Illumination

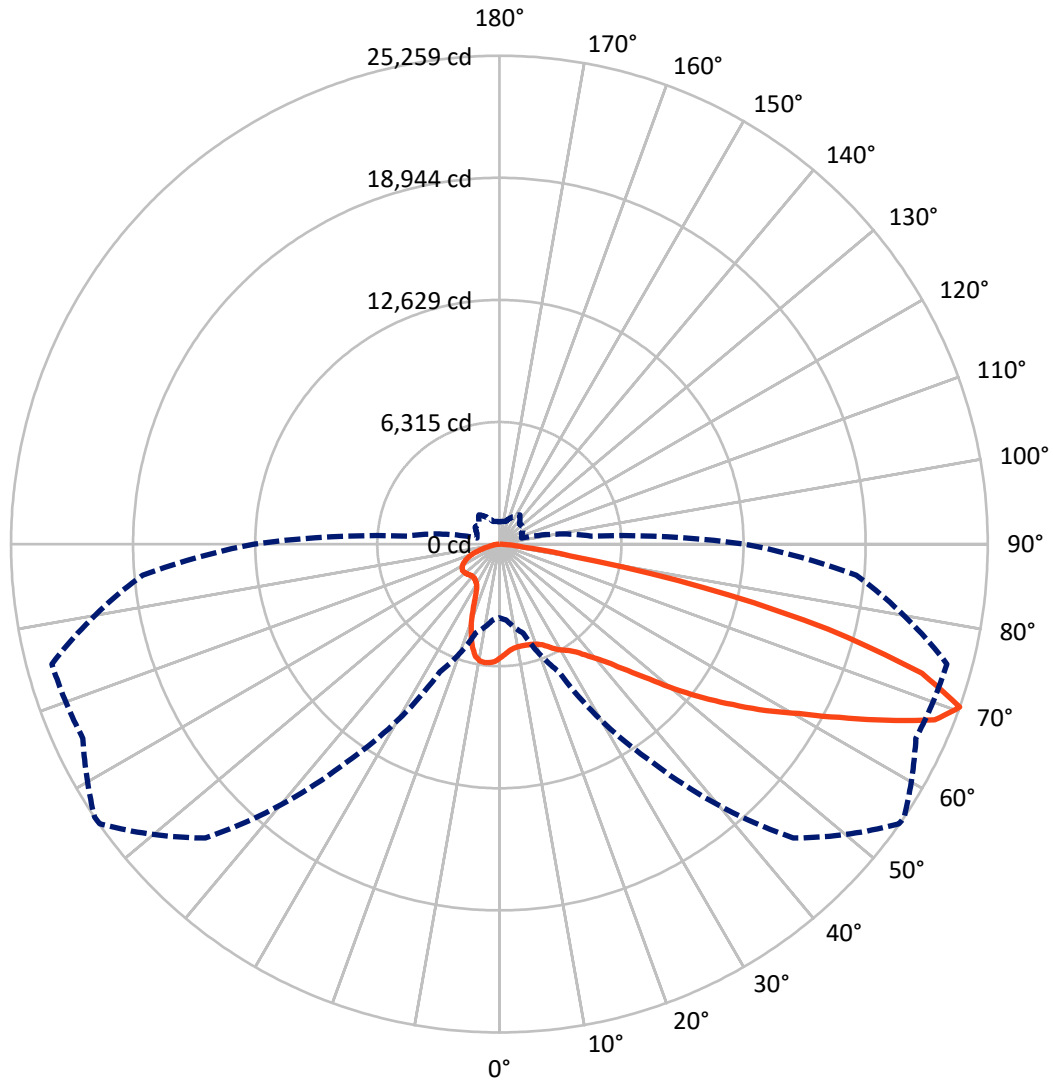
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7001.1	0.0	7001.1
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	29415.1	0.0	29415.1
	% Fixture	80.8	0.0	80.8
Total	Lumens	36416.1	0.0	36416.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.0	1.5
10°-20°	1473.9	4.0
20°-30°	2436.7	6.7
30°-40°	3643.2	10.0
40°-50°	5421.6	14.9
50°-60°	7707.9	21.2
60°-70°	9546.5	26.2
70°-80°	5271.3	14.5
80°-90°	371.2	1.0
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°	36416.1	100.0
0°-180°	36416.1	100.0

Coefficient of Utilization



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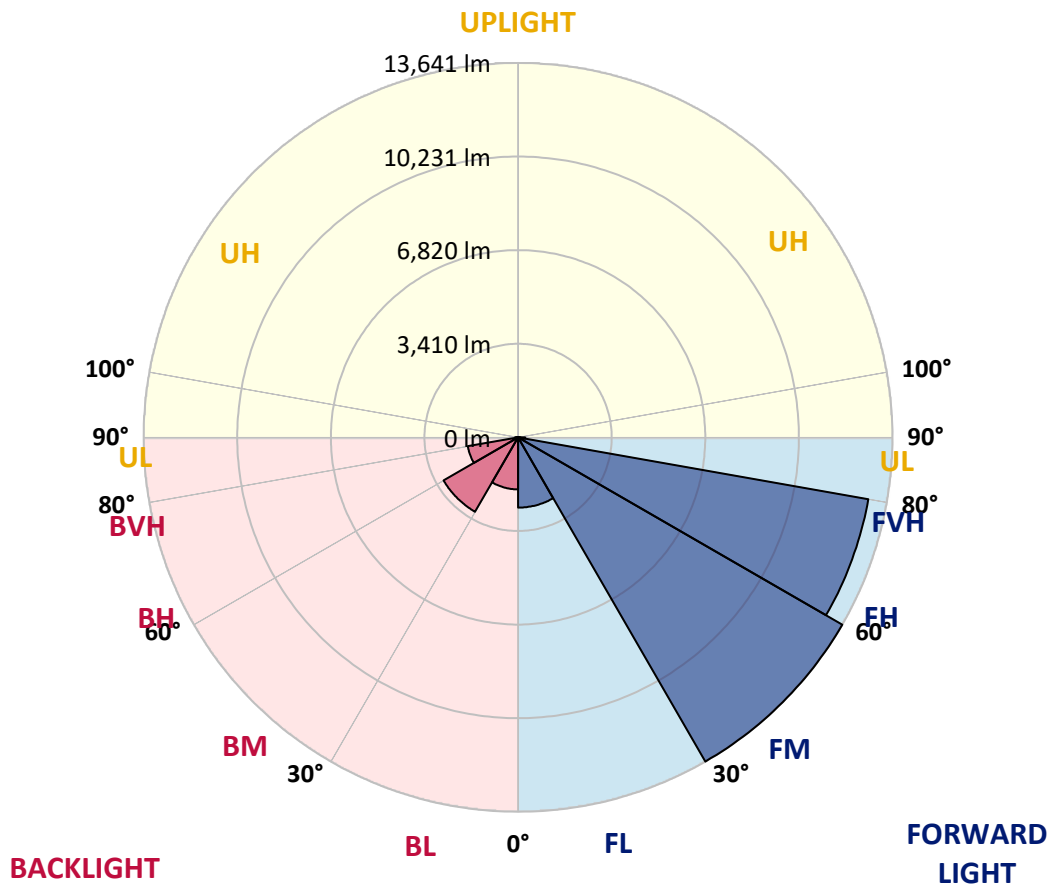
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.3	7.0			
FM (30°-60°)	13640.9	37.5			
FH (60°-80°)	12956.9	35.6			G5
FVH (80°-90°)	258.0	0.7			G3/500
BL (0°-30°)	1895.2	5.2	B3/2500		
BM (30°-60°)	3131.7	8.6	B3/5000		
BH (60°-80°)	1860.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	113.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1
2.5°	5500.6	5469.8	5505.8	5523.7	5570.0	5636.7	5695.8	5698.4	5729.2	5803.6	5875.6
5°	5251.5	5236.1	5246.4	5300.3	5349.1	5433.9	5523.7	5531.4	5618.8	5765.1	5908.9
7.5°	5058.9	5038.4	5076.9	5146.2	5207.9	5302.9	5421.0	5431.3	5554.6	5775.4	5996.2
10°	4781.6	4766.2	4838.1	4930.5	5064.1	5220.7	5377.4	5390.2	5552.0	5842.2	6150.3
12.5°	4660.9	4660.9	4691.7	4779.0	4925.4	5133.4	5369.7	5390.2	5593.1	5944.9	6348.1
15°	4848.4	4861.2	4835.5	4830.4	4889.4	5087.2	5379.9	5410.7	5670.1	6050.2	6543.2
17.5°	5225.9	5238.7	5171.9	5066.6	5007.6	5130.8	5418.4	5451.8	5752.3	6165.7	6753.8
20°	5754.9	5770.3	5623.9	5462.1	5259.2	5256.7	5492.9	5523.7	5857.6	6291.6	6977.2
22.5°	6373.7	6384.0	6199.1	5942.3	5631.6	5490.4	5621.3	5652.1	5993.7	6466.2	7218.6
25°	7090.2	7121.0	6897.6	6525.3	6104.1	5811.4	5834.5	5870.4	6237.6	6699.9	7503.7
27.5°	7855.5	7894.0	7637.2	7226.3	6645.9	6165.7	6109.2	6140.1	6497.0	6843.7	7655.2
30°	8638.7	8667.0	8410.2	7940.2	7228.9	6566.3	6340.4	6358.3	6610.0	6913.0	7809.2
32.5°	9509.3	9486.1	9239.6	8697.8	7901.7	7046.6	6556.1	6550.9	6735.8	7051.7	8030.1
35°	10325.9	10359.3	10097.3	9499.0	8641.3	7639.8	6879.6	6859.1	7002.9	7277.7	8340.8
37.5°	11314.5	11304.3	10991.0	10343.8	9383.4	8207.3	7334.2	7298.2	7349.6	7629.5	8774.8
40°	12020.7	12092.6	11889.8	11286.3	10251.4	8905.8	7865.7	7786.1	7799.0	8063.5	9355.2
42.5°	12598.5	12665.3	12685.8	12300.7	11245.2	9768.6	8528.3	8448.7	8456.4	8831.3	10069.1
45°	13042.8	13132.7	13422.9	13309.9	12364.8	10765.0	9424.5	9342.3	9347.5	9763.5	10931.9
47.5°	13225.1	13322.7	13910.8	14180.4	13553.8	11956.5	10539.0	10418.3	10436.3	10896.0	11918.0
50°	13166.1	13297.0	14093.1	14850.7	14550.2	13168.6	11871.8	11787.1	11717.7	12385.4	12988.9
52.5°	12657.6	12801.4	14075.1	15276.9	15364.3	14314.0	13248.2	13199.4	13184.0	13967.3	14185.6
55°	11160.5	11401.9	13456.2	15389.9	16001.1	15392.5	14740.2	14658.1	14737.7	15662.1	15395.1
57.5°	10331.0	10510.8	12244.2	15264.1	16522.4	16419.7	16229.7	16237.4	16327.3	17503.4	16861.4
60°	9858.5	10069.1	11571.3	14920.0	17023.2	17667.7	17788.4	17788.4	17950.2	19488.4	18350.8
62.5°	9231.9	9445.1	10942.2	14257.5	17485.4	19136.6	19747.8	19740.1	19804.3	21617.3	19806.9
65°	7960.8	8158.5	9678.7	13212.3	17711.4	20754.5	21974.3	21951.1	21822.7	23512.5	20769.9
67.5°	5780.5	5968.0	7413.8	11224.7	16897.3	22059.0	24267.5	24277.7	23509.9	24706.6	20821.2
70°	3810.9	3939.3	4766.2	7290.5	13741.3	21496.6	25227.9	25258.7	23769.3	23961.9	18530.6
72.5°	2378.0	2467.8	2976.3	4347.6	8120.0	17015.5	22762.6	22847.4	21383.6	21057.5	15225.6
75°	1579.3	1640.9	1979.9	2534.6	3757.0	9208.8	17303.1	17575.3	17138.7	16507.0	10608.3
77.5°	950.2	1001.5	1260.9	1610.1	1664.1	3597.7	10099.9	10803.5	10865.1	8618.2	4442.6
80°	434.0	493.1	695.9	919.3	886.0	1253.2	3561.8	3726.1	4396.4	2737.5	1402.1
82.5°	256.8	282.5	462.2	457.1	377.5	608.6	1281.4	1314.8	1117.1	1001.5	598.3
85°	102.7	120.7	195.2	172.1	138.7	197.7	482.8	505.9	485.3	436.6	220.8
87.5°	0.0	0.0	0.0	0.0	2.6	5.1	43.7	46.2	66.8	120.7	66.8
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°	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1	5878.1
2.5°	5921.8	5906.4	5983.4	6042.5	6068.1	6093.8	6070.7	6063.0	6063.0	6011.7	5986.0
5°	5986.0	5993.7	6099.0	6147.8	6147.8	6127.2	6065.6	6021.9	6006.5	5939.8	5921.8
7.5°	6106.7	6140.1	6237.6	6235.1	6163.2	6050.2	5896.1	5778.0	5670.1	5623.9	5595.6
10°	6304.4	6348.1	6414.8	6307.0	6106.7	5808.8	5482.6	5225.9	5071.8	4948.5	4948.5
12.5°	6530.4	6571.5	6558.6	6309.5	5896.1	5338.8	4868.9	4573.6	4357.9	4244.9	4244.9
15°	6756.4	6789.8	6651.1	6191.4	5457.0	4714.8	4201.2	3846.8	3659.4	3554.1	3554.1
17.5°	6984.9	6982.4	6689.6	5919.2	4884.3	4024.0	3520.7	3245.9	3181.7	3163.8	3161.2
20°	7205.8	7146.7	6640.8	5464.7	4219.2	3328.1	3009.7	3027.7	3122.7	3163.8	3168.9
22.5°	7454.9	7308.5	6497.0	4884.3	3464.2	2845.3	2865.9	3014.8	3153.5	3215.1	3222.8
25°	7709.1	7447.2	6255.6	4203.8	2832.5	2668.1	2827.4	2994.3	3150.9	3230.5	3238.2
27.5°	7811.8	7447.2	5844.7	3415.4	2496.1	2593.7	2768.3	2930.1	3094.4	3186.9	3204.8
30°	7896.6	7383.0	5269.5	2704.1	2357.4	2521.8	2673.3	2822.2	2984.0	3097.0	3117.5
32.5°	8014.7	7326.5	4573.6	2272.7	2293.2	2452.4	2557.7	2683.5	2829.9	2904.4	2896.7
35°	8153.4	7239.2	3733.9	2067.2	2239.3	2393.4	2467.8	2542.3	2475.5	2473.0	2480.7
37.5°	8351.1	7162.1	3002.0	1974.8	2203.3	2352.3	2413.9	2254.7	2162.2	2123.7	2108.3
40°	8636.1	7131.3	2367.7	1920.9	2198.2	2349.7	2306.1	2059.5	1933.7	1800.2	1797.6
42.5°	8995.7	7108.2	1956.8	1895.2	2216.2	2408.8	2157.1	1931.1	1671.8	1612.7	1607.6
45°	9457.9	7072.2	1751.4	1890.0	2259.8	2455.0	2141.7	1753.9	1576.7	1551.1	1551.1
47.5°	10015.1	7015.7	1658.9	1890.0	2308.6	2434.5	2095.5	1715.4	1533.1	1561.3	1579.3
50°	10654.6	6943.8	1610.1	1884.9	2357.4	2434.5	1997.9	1707.7	1522.8	1669.2	1728.3
52.5°	11337.7	6861.7	1576.7	1864.4	2390.8	2437.0	2003.0	1733.4	1533.1	1694.9	1743.7
55°	12092.6	6848.8	1530.5	1820.7	2401.1	2370.3	2015.9	1789.9	1548.5	1535.7	1538.2
57.5°	13045.4	7002.9	1497.1	1756.5	2360.0	2234.1	2041.5	1831.0	1530.5	1533.1	1551.1
60°	14041.7	7293.1	1525.4	1694.9	2275.2	2105.7	2059.5	1810.4	1443.2	1402.1	1407.3
62.5°	14889.2	7513.9	1548.5	1666.6	2152.0	1992.8	2041.5	1764.2	1394.4	1384.1	1407.3
65°	15243.6	7331.6	1492.0	1607.6	1972.2	1854.1	2003.0	1705.1	1353.3	1314.8	1317.4
67.5°	14850.7	6476.5	1381.6	1476.6	1769.3	1676.9	1941.4	1628.1	1296.8	1250.6	1240.3
70°	12685.8	4758.5	1191.5	1268.6	1522.8	1468.9	1846.4	1528.0	1207.0	1173.6	1150.5
72.5°	10223.2	3369.2	988.7	1009.2	1194.1	1237.8	1682.0	1402.1	1104.2	1009.2	975.8
75°	7115.9	2116.0	824.3	803.8	862.8	945.0	1312.2	1163.3	952.7	852.6	821.8
77.5°	3061.0	1086.3	644.6	634.3	575.2	654.8	1006.7	970.7	798.6	683.1	665.1
80°	1024.6	629.2	464.8	446.8	382.6	459.7	708.8	775.5	626.6	505.9	475.1
82.5°	513.6	364.7	295.3	267.1	256.8	290.2	418.6	482.8	434.0	349.2	295.3
85°	251.7	208.0	161.8	159.2	133.5	125.8	174.6	205.4	195.2	143.8	136.1
87.5°	92.4	82.2	51.4	41.1	25.7	18.0	10.3	10.3	7.7	7.7	7.7
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)