

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: P642700

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36477.8 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

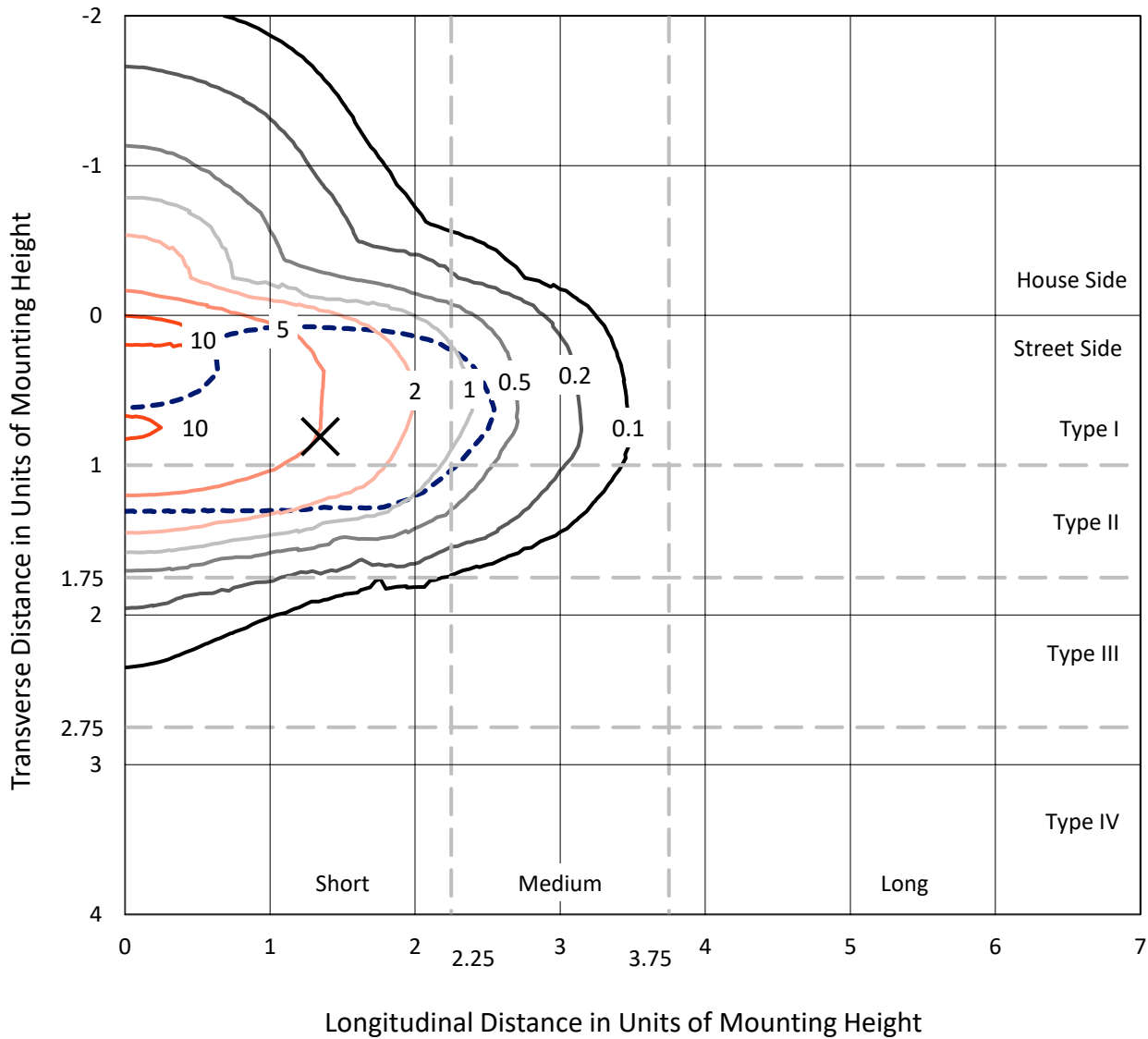
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

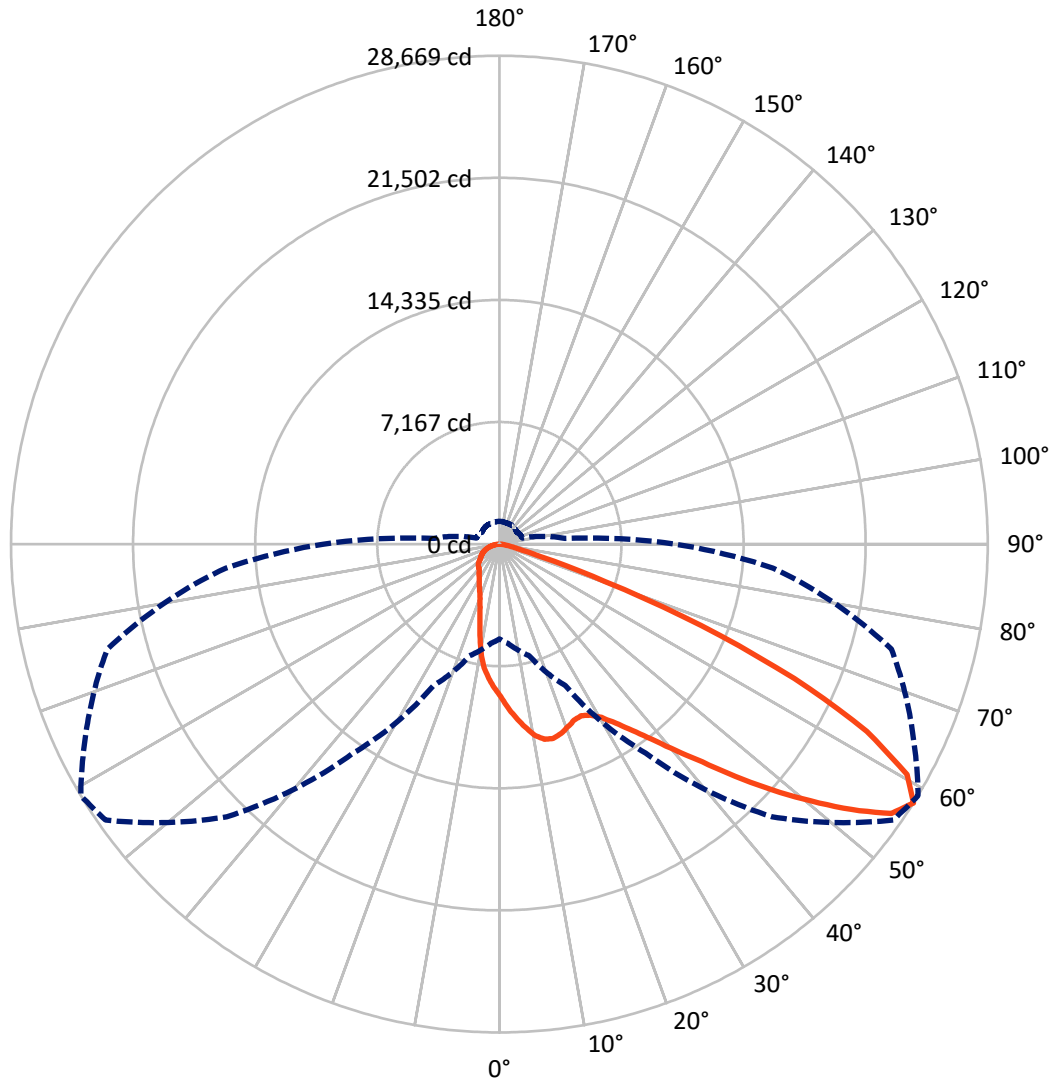
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5661.2	0.0	5661.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	30816.6	0.0	30816.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	36477.8	0.0	36477.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.5	2.3
10°-20°	2106.9	5.8
20°-30°	3415.3	9.4
30°-40°	5493.9	15.1
40°-50°	8531.6	23.4
50°-60°	9189.6	25.2
60°-70°	5333.3	14.6
70°-80°	1392.3	3.8
80°-90°	183.4	0.5
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°	36477.8	100.0
0°-180°	36477.8	100.0

Coefficient of Utilization



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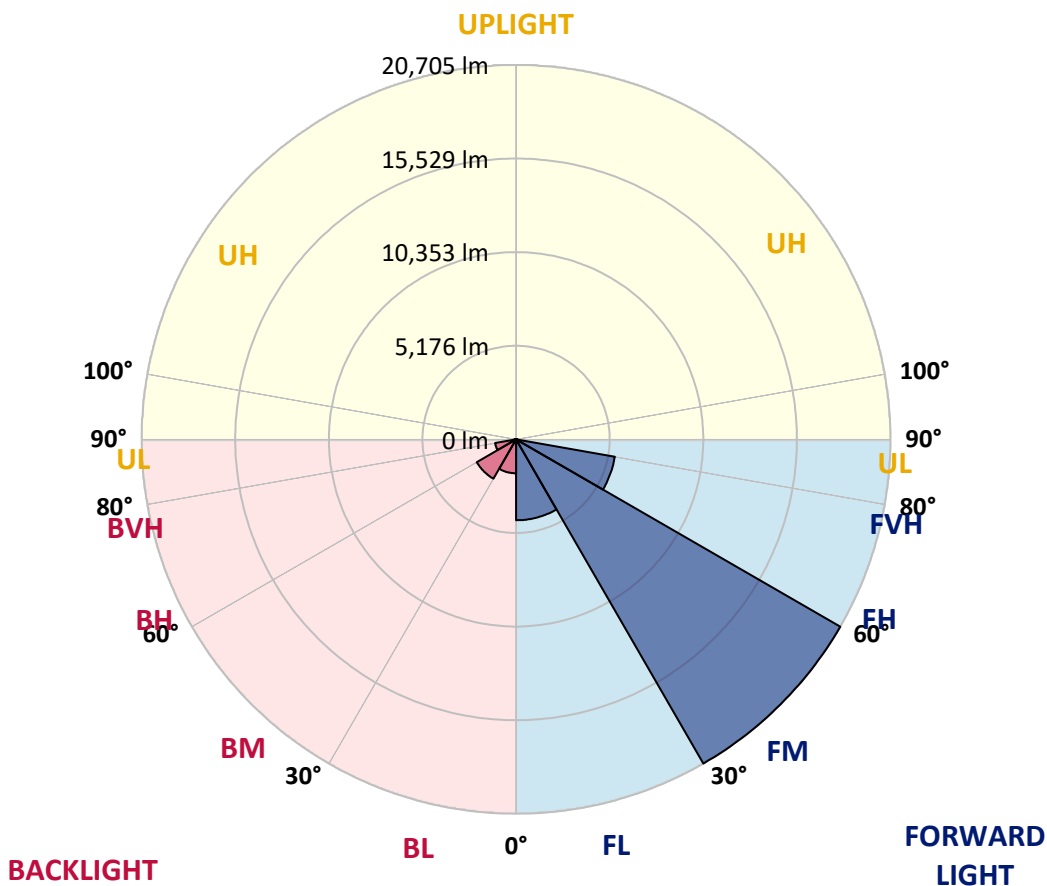
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4475.5	12.3			
FM (30°-60°)	20705.2	56.8			
FH (60°-80°)	5548.1	15.2			G3/7500
FVH (80°-90°)	87.8	0.2			G1/100
BL (0°-30°)	1878.2	5.1	B3/2500		
BM (30°-60°)	2509.9	6.9	B3/5000		
BH (60°-80°)	1177.5	3.2	B3/2500		G3/2500
BVH (80°-90°)	95.6	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°	55°	59°	65°	75°	85°
0°	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6
2.5°	10156.4	10071.6	10130.7	10025.4	9981.8	9866.2	9717.3	9617.1	9463.0	9262.7	9088.1
5°	11165.6	11106.5	11119.4	11006.4	10906.2	10713.6	10408.1	10238.6	9976.6	9573.5	9198.5
7.5°	11134.8	11204.1	11242.6	11340.2	11368.5	11350.5	11075.7	10839.5	10551.9	9945.8	9380.9
10°	9981.8	10112.7	10230.9	10564.7	10970.4	11484.0	11548.2	11407.0	11116.8	10420.9	9599.1
12.5°	8726.0	8826.2	8931.5	9332.1	9953.5	10980.7	11676.6	11763.9	11648.4	10890.8	9845.7
15°	8109.7	8155.9	8256.1	8520.6	9016.2	10156.4	11453.2	11835.9	12043.9	11389.0	10123.0
17.5°	8084.0	8104.6	8153.4	8294.6	8638.7	9519.5	11050.0	11692.0	12354.6	11915.5	10446.6
20°	8615.6	8561.7	8530.9	8528.3	8697.8	9306.4	10659.7	11460.9	12501.0	12454.7	10793.2
22.5°	9352.6	9370.6	9303.8	9139.5	9118.9	9457.9	10464.5	11227.2	12544.6	12932.4	11114.2
25°	10397.8	10487.7	10289.9	9976.6	9822.6	9897.0	10585.2	11155.3	12539.5	13330.4	11314.6
27.5°	11617.6	11686.9	11486.6	11075.7	10757.3	10577.5	10944.8	11368.5	12583.1	13674.5	11435.2
30°	13006.9	13030.0	12755.2	12323.8	11859.0	11473.8	11543.1	11807.6	12806.6	14126.5	11576.5
32.5°	14704.3	14801.9	14385.9	13702.8	13053.1	12560.0	12346.9	12516.4	13289.3	14660.6	11794.8
35°	16858.8	16892.2	16363.2	15384.8	14465.5	13782.4	13335.6	13425.4	14023.8	15407.9	12123.5
37.5°	18890.1	18923.5	18361.1	17452.0	16137.2	15202.5	14555.4	14514.3	14963.7	16463.4	12660.2
40°	20179.2	20274.3	20022.6	19452.5	18196.8	16935.9	16057.6	15916.4	16196.3	17755.1	13407.5
42.5°	20872.6	20913.7	20908.5	20983.0	20235.7	18982.6	17752.5	17470.0	17657.5	19149.5	14162.4
45°	20877.7	20980.5	21255.2	21971.7	22005.1	21224.4	19894.2	19452.5	19280.4	20554.2	14950.8
47.5°	19943.0	20053.4	20808.4	22218.2	23258.3	23435.4	22459.6	21573.7	20849.5	21763.7	15598.0
50°	17113.1	17390.4	18828.5	21322.0	23504.8	25207.4	24906.9	23705.1	22243.9	22698.4	16003.7
52.5°	14655.5	14645.2	15531.2	18790.0	22475.0	25988.0	27274.6	25898.1	23622.9	23291.6	16106.4
55°	10731.6	10790.7	11697.2	14370.5	19727.3	25233.0	28576.6	27916.6	25204.8	23607.5	16065.3
57.5°	5564.8	5857.6	6787.2	9170.3	14989.3	22634.2	28229.9	28669.0	26812.4	23830.9	16119.3
60°	2811.9	2755.5	3089.3	4378.4	8684.9	17678.0	26093.3	27492.9	27102.5	24005.5	16152.6
62.5°	1877.2	1861.8	1769.3	2028.7	3549.0	10469.7	22243.9	24205.8	25086.7	23594.7	15726.4
65°	1625.5	1594.7	1425.2	1415.0	1723.1	4342.5	16304.1	19028.8	20733.9	21768.8	14706.9
67.5°	1463.8	1417.5	1245.5	1160.7	1237.8	1908.0	9188.3	12762.9	15310.3	18409.9	12472.7
70°	1307.1	1284.0	1111.9	988.7	981.0	1163.3	3384.6	6586.9	9368.0	12560.0	9118.9
72.5°	1171.0	1129.9	983.5	865.4	806.3	824.3	1468.9	2537.2	4848.4	7834.9	5454.4
75°	1014.4	983.5	855.1	737.0	665.1	603.5	896.2	1173.6	2211.0	3723.6	2575.7
77.5°	783.2	762.7	675.4	585.5	544.4	449.4	544.4	739.6	1022.1	1569.0	1340.5
80°	454.5	467.4	503.3	457.1	400.6	321.0	354.4	426.3	613.7	850.0	760.1
82.5°	228.6	244.0	326.1	264.5	238.8	187.5	210.6	251.7	321.0	469.9	297.9
85°	18.0	18.0	59.1	66.8	82.2	66.8	84.7	102.7	146.4	187.5	100.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	12.8	23.1	43.7	28.2
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°	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6	8954.6
2.5°	8970.0	8839.0	8682.4	8554.0	8356.2	8250.9	8117.4	7953.1	7886.3	7855.5	7837.5
5°	8988.0	8756.8	8423.0	8114.8	7773.3	7503.7	7203.2	6889.9	6710.1	6666.5	6635.7
7.5°	9054.7	8731.2	8199.6	7691.1	7056.8	6468.8	5896.1	5328.6	5038.4	4928.0	4917.7
10°	9147.2	8720.9	7973.6	7128.7	6057.9	5128.3	4458.0	4013.8	3826.3	3764.7	3744.1
12.5°	9262.7	8713.2	7675.7	6348.1	4904.9	4026.6	3644.0	3572.1	3597.7	3592.6	3592.6
15°	9409.1	8723.5	7316.2	5464.7	3967.5	3495.0	3502.7	3587.5	3667.1	3679.9	3679.9
17.5°	9568.3	8713.2	6794.9	4578.7	3405.2	3369.2	3487.3	3605.5	3677.4	3687.6	3687.6
20°	9740.4	8664.4	6137.5	3744.1	3158.6	3289.6	3418.0	3510.4	3554.1	3564.4	3564.4
22.5°	9843.1	8525.7	5423.6	3168.9	3002.0	3163.8	3248.5	3343.5	3348.7	3266.5	3263.9
25°	9827.7	8266.4	4609.5	2799.1	2835.1	2976.3	3084.2	3017.4	2935.2	2889.0	2881.3
27.5°	9730.1	7876.0	3780.1	2519.2	2637.3	2796.5	2763.2	2706.7	2686.1	2634.8	2629.6
30°	9606.8	7395.8	3035.4	2300.9	2431.9	2578.3	2526.9	2521.8	2501.2	2444.7	2444.7
32.5°	9488.7	6900.2	2473.0	2139.1	2300.9	2311.2	2383.1	2388.2	2378.0	2280.4	2270.1
35°	9455.3	6404.6	2092.9	2010.7	2172.5	2167.4	2270.1	2267.5	2090.3	1954.2	1951.7
37.5°	9555.5	5901.2	1866.9	1905.4	1995.3	2062.1	2144.3	1995.3	1936.3	1854.1	1849.0
40°	9768.6	5436.4	1751.4	1843.8	1882.3	1979.9	1851.5	1861.8	1846.4	1784.8	1777.0
42.5°	10051.1	5041.0	1687.2	1823.3	1818.1	1843.8	1702.6	1743.7	1766.8	1720.6	1712.8
45°	10323.3	4696.8	1653.8	1746.2	1771.9	1623.0	1594.7	1633.2	1669.2	1651.2	1643.5
47.5°	10523.6	4399.0	1635.8	1640.9	1712.8	1548.5	1502.3	1520.2	1563.9	1571.6	1569.0
50°	10585.2	4144.7	1615.3	1553.6	1538.2	1474.0	1438.1	1432.9	1484.3	1520.2	1525.4
52.5°	10467.1	3918.7	1561.3	1476.6	1402.1	1412.4	1399.6	1373.9	1425.2	1474.0	1479.2
55°	10292.5	3790.3	1476.6	1402.1	1314.8	1355.9	1361.0	1337.9	1371.3	1404.7	1404.7
57.5°	10305.3	3864.8	1394.4	1332.8	1237.8	1291.7	1319.9	1309.7	1309.7	1335.4	1337.9
60°	10390.1	3972.7	1340.5	1245.5	1160.7	1217.2	1281.4	1271.2	1248.0	1281.4	1281.4
62.5°	10146.1	3828.9	1304.5	1160.7	1078.6	1145.3	1222.4	1217.2	1191.5	1245.5	1250.6
65°	9427.1	3443.7	1263.4	1055.4	996.4	1073.4	1140.2	1158.2	1135.1	1207.0	1219.8
67.5°	7901.7	2896.7	1183.8	955.3	914.2	986.1	1050.3	1076.0	1058.0	1142.8	1153.0
70°	5891.0	2344.6	1058.0	844.9	814.1	878.3	937.3	947.6	950.2	1050.3	1060.6
72.5°	3757.0	1823.3	891.1	721.6	698.5	747.3	790.9	832.0	850.0	945.0	942.5
75°	2095.5	1355.9	716.5	611.2	570.1	608.6	660.0	708.8	760.1	898.8	914.2
77.5°	1207.0	952.7	567.5	490.5	441.7	482.8	526.4	595.8	749.9	870.5	855.1
80°	680.5	618.9	428.9	359.5	328.7	359.5	392.9	523.9	590.6	642.0	649.7
82.5°	318.4	346.7	292.8	220.8	220.8	241.4	272.2	405.7	446.8	364.7	318.4
85°	115.6	156.6	143.8	113.0	100.2	97.6	169.5	231.1	143.8	128.4	110.4
87.5°	30.8	43.7	41.1	28.2	15.4	12.8	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)