

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: P642620

Luminaire Tested: GWS-SA6D-730-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642620
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-SA6D-730-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33261.7 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

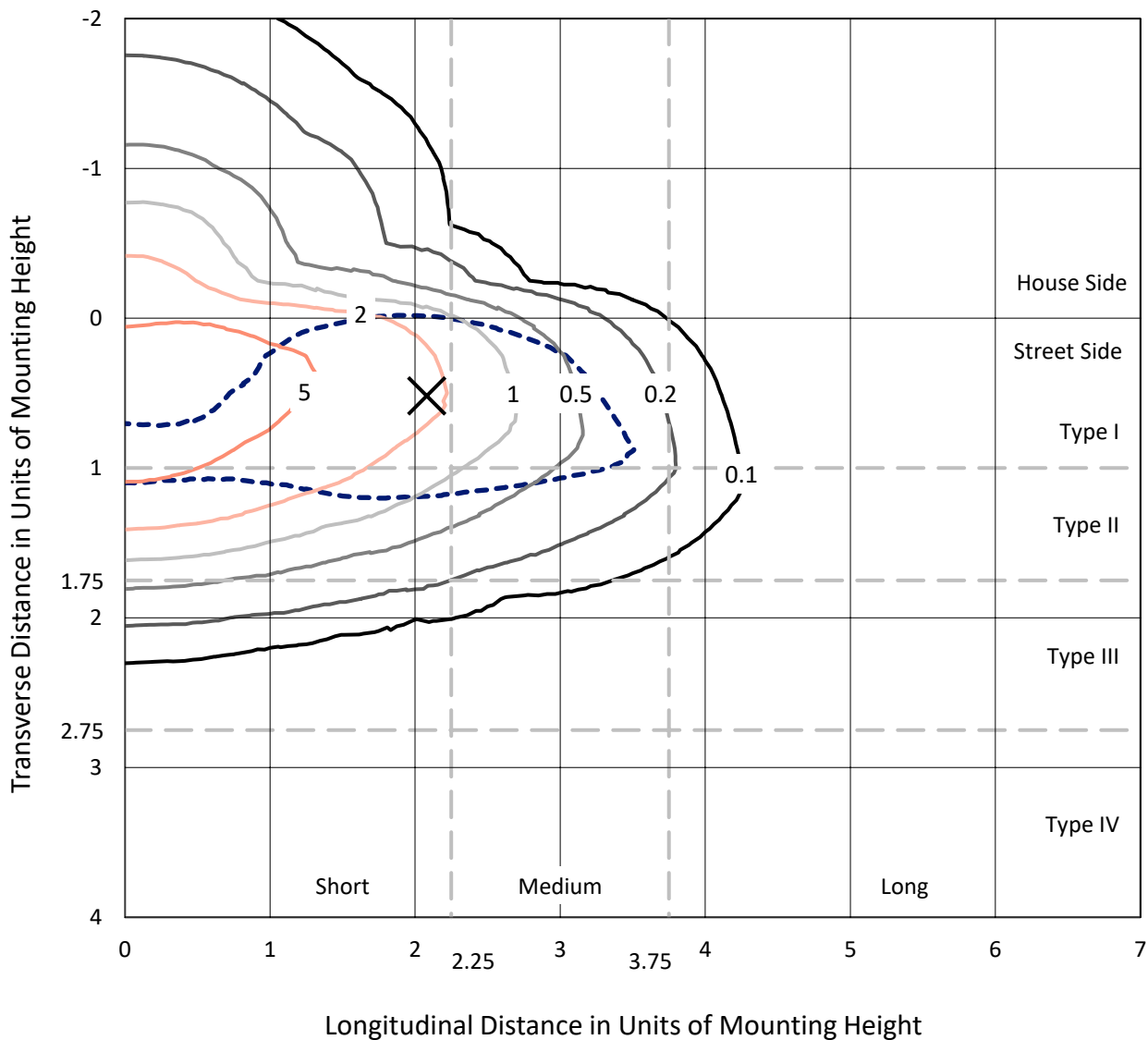
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

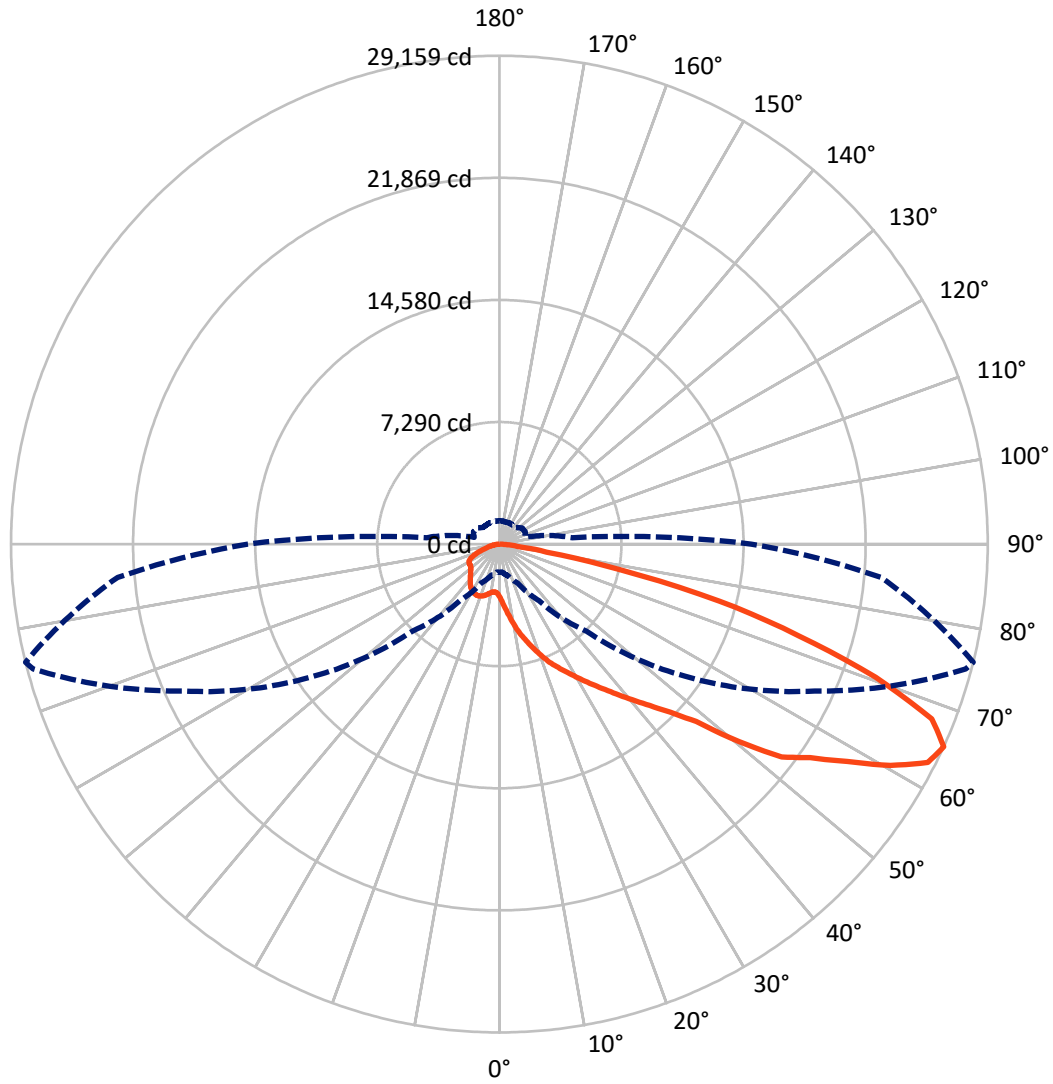
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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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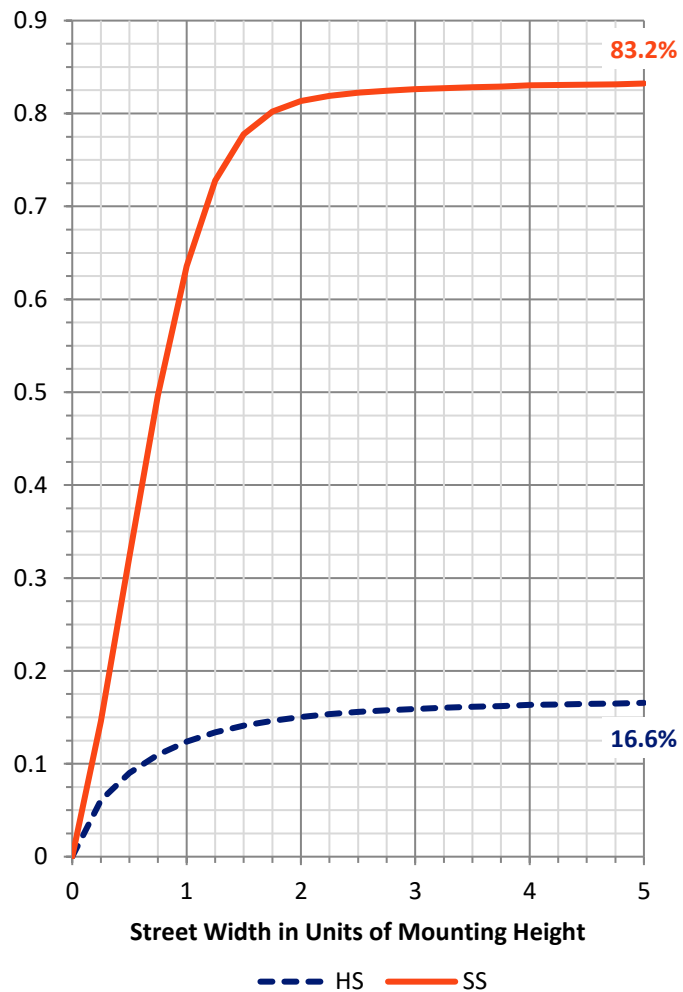
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5559.7	0.0	5559.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	27702.0	0.0	27702.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	33261.7	0.0	33261.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	1.1
10°-20°	1425.3	4.3
20°-30°	2777.8	8.4
30°-40°	4645.6	14.0
40°-50°	6651.6	20.0
50°-60°	7874.6	23.7
60°-70°	6547.8	19.7
70°-80°	2679.5	8.1
80°-90°	285.3	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°	33261.7	100.0
0°-180°	33261.7	100.0

Coefficient of Utilization



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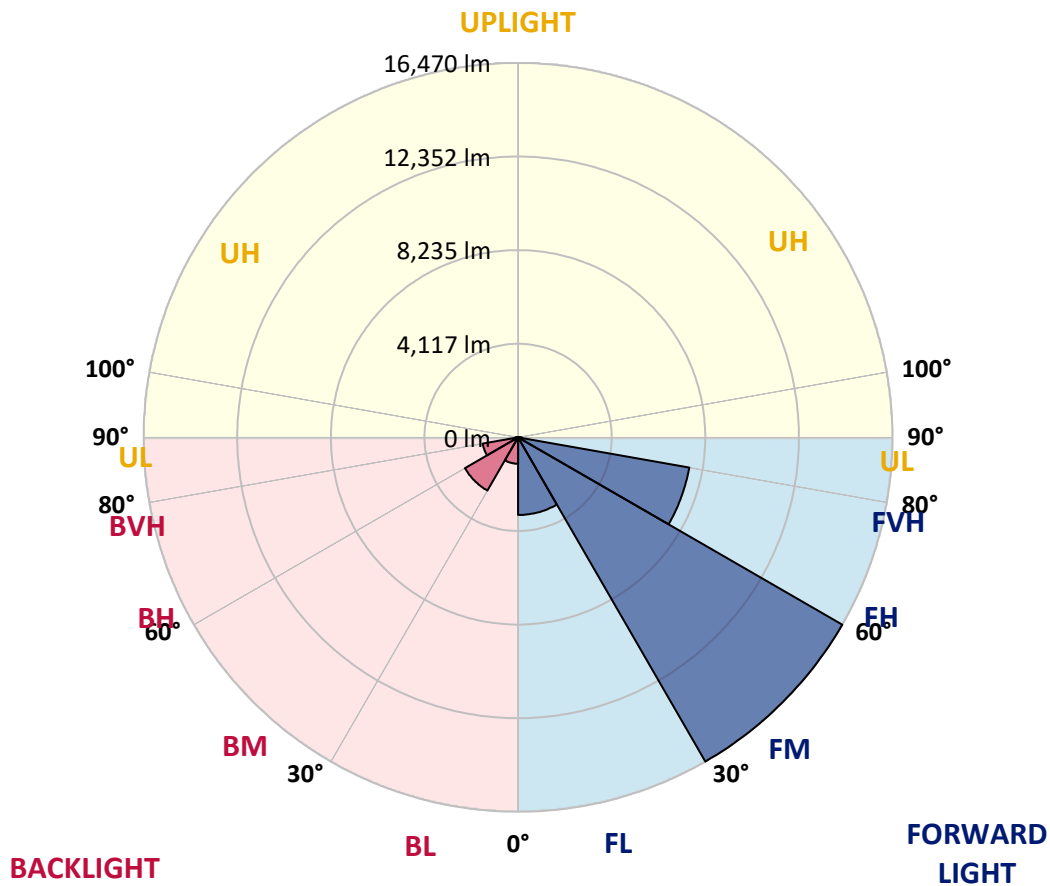
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3414.2	10.3			
FM (30°-60°)	16469.9	49.5			
FH (60°-80°)	7647.7	23.0			G4/12000
FVH (80°-90°)	170.1	0.5			G2/225
BL (0°-30°)	1163.1	3.5	B3/2500		
BM (30°-60°)	2701.9	8.1	B3/5000		
BH (60°-80°)	1579.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	115.1	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°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	4414.8	4431.2	4377.4	4358.7	4232.4	4061.7	3919.1	3703.9	3505.2	3474.8	3297.1
5°	5607.4	5537.2	5476.4	5436.7	5261.3	5067.2	4765.6	4361.0	3937.8	3886.3	3502.9
7.5°	6315.9	6304.2	6229.4	6206.0	6070.4	5876.3	5565.3	5062.5	4447.5	4363.4	3781.1
10°	6884.1	6877.1	6839.7	6860.7	6736.8	6547.4	6245.7	5726.6	5006.4	4922.2	4092.1
12.5°	7379.8	7391.5	7384.5	7461.7	7398.5	7251.2	6937.9	6367.3	5565.3	5474.1	4470.9
15°	7742.3	7751.6	7786.7	7955.1	7990.1	7959.7	7641.7	6996.3	6117.1	5986.2	4861.4
17.5°	7845.2	7863.9	7948.1	8219.3	8408.7	8535.0	8298.8	7637.1	6659.6	6517.0	5259.0
20°	7983.1	8004.2	8088.4	8371.3	8649.6	8937.2	8895.1	8287.1	7206.8	7089.9	5661.2
22.5°	8621.5	8605.1	8567.7	8703.3	8902.1	9259.9	9365.1	8911.5	7772.7	7660.4	6105.4
25°	9851.5	9821.1	9582.6	9458.6	9393.2	9610.6	9797.7	9479.7	8324.5	8156.2	6519.3
27.5°	11207.7	11191.4	10887.4	10592.7	10190.5	10097.0	10206.9	9975.4	8860.0	8689.3	6879.4
30°	12491.5	12442.4	12124.4	11754.9	11217.1	10814.9	10653.5	10461.8	9446.9	9269.2	7300.3
32.5°	13639.6	13576.5	13202.3	12793.1	12229.6	11754.9	11273.2	10978.6	10111.0	9905.3	7730.6
35°	14582.0	14518.8	14135.3	13700.4	13080.7	12730.0	12070.6	11539.8	10786.8	10578.7	8238.0
37.5°	15311.5	15253.1	14853.2	14425.3	13885.1	13606.9	13034.0	12171.1	11565.5	11348.0	8775.8
40°	15720.7	15678.6	15358.3	15019.2	14565.6	14324.7	14067.5	12968.5	12437.7	12220.2	9409.5
42.5°	15844.7	15816.6	15592.1	15416.8	15110.4	14928.0	15075.4	13906.2	13368.4	13179.0	10122.7
45°	15533.7	15533.7	15468.2	15557.1	15571.1	15568.7	16085.5	14965.5	14511.8	14303.7	11128.2
47.5°	14738.6	14790.1	14885.9	15323.2	15783.9	16169.7	17266.4	16377.8	15982.6	15811.9	12552.3
50°	13284.2	13424.5	13751.8	14605.3	15585.1	16567.2	18384.1	18466.0	18842.4	18540.8	14647.4
52.5°	11153.9	11132.9	11967.7	13183.6	14677.8	16583.6	18999.1	20308.6	21321.1	21113.0	16204.8
55°	8864.7	8829.6	9608.3	11284.9	13286.5	15956.9	19368.6	21152.7	22696.0	22509.0	17605.5
57.5°	6788.2	6743.8	7436.0	8948.9	11322.3	14626.4	19298.4	22158.2	24587.8	24491.9	19508.9
60°	4672.0	4618.2	5266.0	6589.5	8998.0	12592.0	18522.1	22675.0	26802.2	26834.9	21545.6
62.5°	2806.0	2775.6	3245.6	4272.2	6472.6	10071.3	16705.2	22361.7	28565.3	28712.6	22855.1
65°	1693.0	1671.9	1947.8	2548.8	4106.1	7349.4	13903.8	20759.9	28820.2	29159.2	22885.5
67.5°	1232.3	1234.6	1314.2	1552.7	2394.5	4746.9	10433.7	17888.4	27492.0	27842.8	21442.7
70°	1071.0	1075.6	1117.7	1171.5	1447.4	2717.2	6783.6	14121.3	23565.9	23837.2	17984.3
72.5°	951.7	951.7	979.8	1007.8	1131.8	1655.6	3633.8	9870.2	18599.3	18671.7	13726.1
75°	837.1	830.1	844.1	858.2	982.1	1157.5	1767.8	6877.1	13737.8	13569.5	8871.7
77.5°	666.4	659.4	661.8	675.8	788.0	827.8	895.6	4295.6	7742.3	7307.3	3919.1
80°	474.7	470.0	495.7	530.8	582.2	507.4	561.2	2078.8	3070.3	2857.5	1519.9
82.5°	282.9	292.3	332.0	360.1	402.2	318.0	362.4	694.5	1087.3	1059.3	617.3
85°	39.8	42.1	119.3	138.0	173.0	123.9	191.7	313.3	434.9	465.3	217.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	16.4	56.1	123.9	126.3	53.8
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°	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8	3149.8
2.5°	3205.9	3096.0	2939.3	2808.4	2698.5	2609.6	2534.8	2478.7	2462.3	2438.9	2438.9
5°	3322.8	3124.0	2843.4	2644.7	2530.1	2462.3	2415.5	2392.1	2380.4	2366.4	2359.4
7.5°	3484.1	3205.9	2827.1	2626.0	2537.1	2495.0	2464.6	2450.6	2441.2	2427.2	2427.2
10°	3706.3	3327.5	2878.5	2691.4	2621.3	2579.2	2544.1	2520.7	2499.7	2478.7	2474.0
12.5°	3947.1	3486.5	2972.0	2780.3	2705.5	2654.0	2604.9	2569.8	2544.1	2518.4	2511.4
15°	4213.7	3650.2	3072.6	2866.8	2773.3	2703.1	2644.7	2590.9	2555.8	2518.4	2513.7
17.5°	4475.6	3816.2	3156.8	2925.3	2806.0	2719.5	2635.3	2565.2	2520.7	2478.7	2467.0
20°	4788.9	3982.2	3215.2	2941.6	2799.0	2684.4	2583.9	2495.0	2445.9	2396.8	2389.8
22.5°	5076.6	4136.5	3243.3	2918.3	2745.2	2609.6	2492.7	2396.8	2343.0	2293.9	2284.6
25°	5354.8	4272.2	3231.6	2862.1	2663.4	2506.7	2385.1	2289.2	2237.8	2186.4	2172.3
27.5°	5623.7	4363.4	3184.8	2775.6	2560.5	2392.1	2275.2	2188.7	2144.3	2099.8	2081.1
30°	5888.0	4447.5	3112.3	2663.4	2429.5	2272.9	2177.0	2116.2	2071.8	2025.0	2011.0
32.5°	6154.5	4508.3	3002.4	2532.4	2296.3	2167.7	2109.2	2064.8	2018.0	1971.2	1957.2
35°	6423.5	4534.1	2869.2	2382.8	2184.0	2099.8	2078.8	2027.4	1964.2	1908.1	1889.4
37.5°	6743.8	4557.4	2703.1	2235.5	2085.8	2067.1	2062.4	1985.3	1910.4	1833.3	1812.2
40°	7129.6	4587.8	2532.4	2102.2	2006.3	2055.4	2036.7	1931.5	1781.8	1707.0	1683.6
42.5°	7602.0	4644.0	2354.7	1980.6	1947.8	2011.0	1989.9	1800.5	1700.0	1657.9	1646.2
45°	8296.5	4849.7	2177.0	1884.7	1903.4	1947.8	1915.1	1723.4	1683.6	1655.6	1641.5
47.5°	9533.5	5165.4	2022.7	1812.2	1868.3	1891.7	1765.5	1702.3	1671.9	1634.5	1618.1
50°	10819.6	5303.4	1898.7	1767.8	1828.6	1840.3	1683.6	1674.3	1653.2	1613.5	1597.1
52.5°	11689.4	5284.7	1823.9	1751.4	1795.9	1751.4	1646.2	1643.9	1629.8	1583.1	1564.4
55°	12671.5	5317.4	1791.2	1756.1	1781.8	1601.8	1599.4	1606.4	1599.4	1548.0	1538.6
57.5°	13997.4	5418.0	1774.8	1772.5	1772.5	1529.3	1555.0	1564.4	1550.3	1526.9	1519.9
60°	15271.8	5425.0	1744.4	1791.2	1765.5	1484.9	1503.6	1512.9	1496.5	1491.9	1489.5
62.5°	15751.1	5088.3	1676.6	1777.1	1737.4	1435.7	1449.8	1454.5	1438.1	1449.8	1447.4
65°	15037.9	4372.7	1564.4	1709.3	1650.9	1391.3	1382.0	1393.7	1365.6	1396.0	1398.3
67.5°	13352.0	3474.8	1393.7	1580.7	1529.3	1342.2	1323.5	1323.5	1276.7	1323.5	1321.2
70°	10765.8	2455.3	1143.5	1375.0	1396.0	1283.8	1274.4	1220.6	1145.8	1215.9	1208.9
72.5°	8160.8	1763.1	900.3	1087.3	1201.9	1201.9	1204.3	1113.1	1026.5	1059.3	1031.2
75°	5170.1	1241.7	720.2	832.5	942.4	1054.6	1108.4	940.0	862.9	848.8	834.8
77.5°	2329.0	816.1	561.2	638.4	668.8	832.5	1012.5	809.1	703.8	673.4	664.1
80°	975.1	507.4	399.9	451.3	411.5	699.2	893.3	629.0	516.8	474.7	444.3
82.5°	427.9	301.6	254.9	243.2	257.2	519.1	666.4	418.6	322.7	437.3	441.9
85°	180.1	159.0	130.9	119.3	105.2	198.8	313.3	163.7	201.1	114.6	93.5
87.5°	42.1	46.8	35.1	23.4	14.0	2.3	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)