

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: P642177

Luminaire Tested: GWS-SA6C-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18773.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

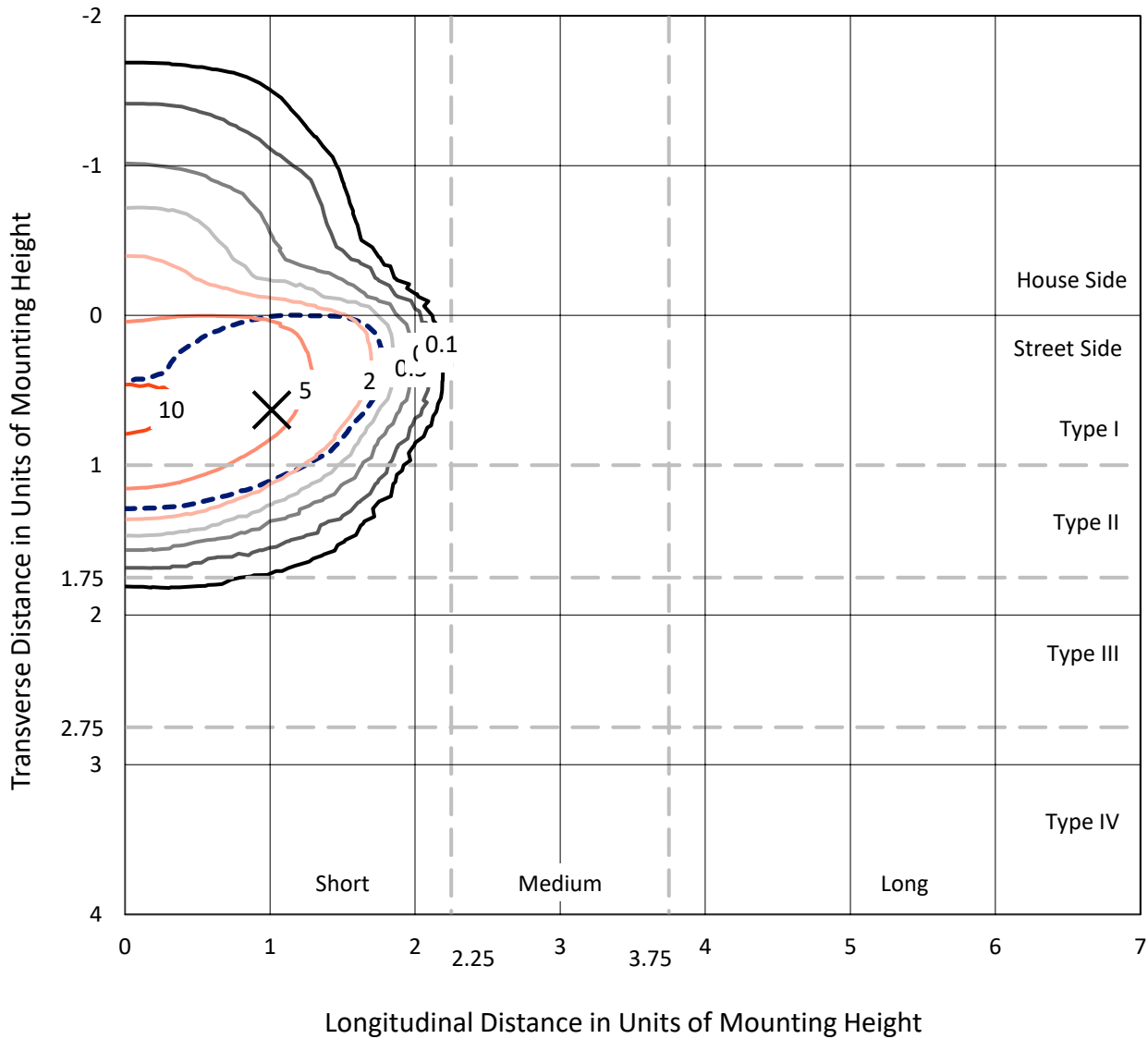
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

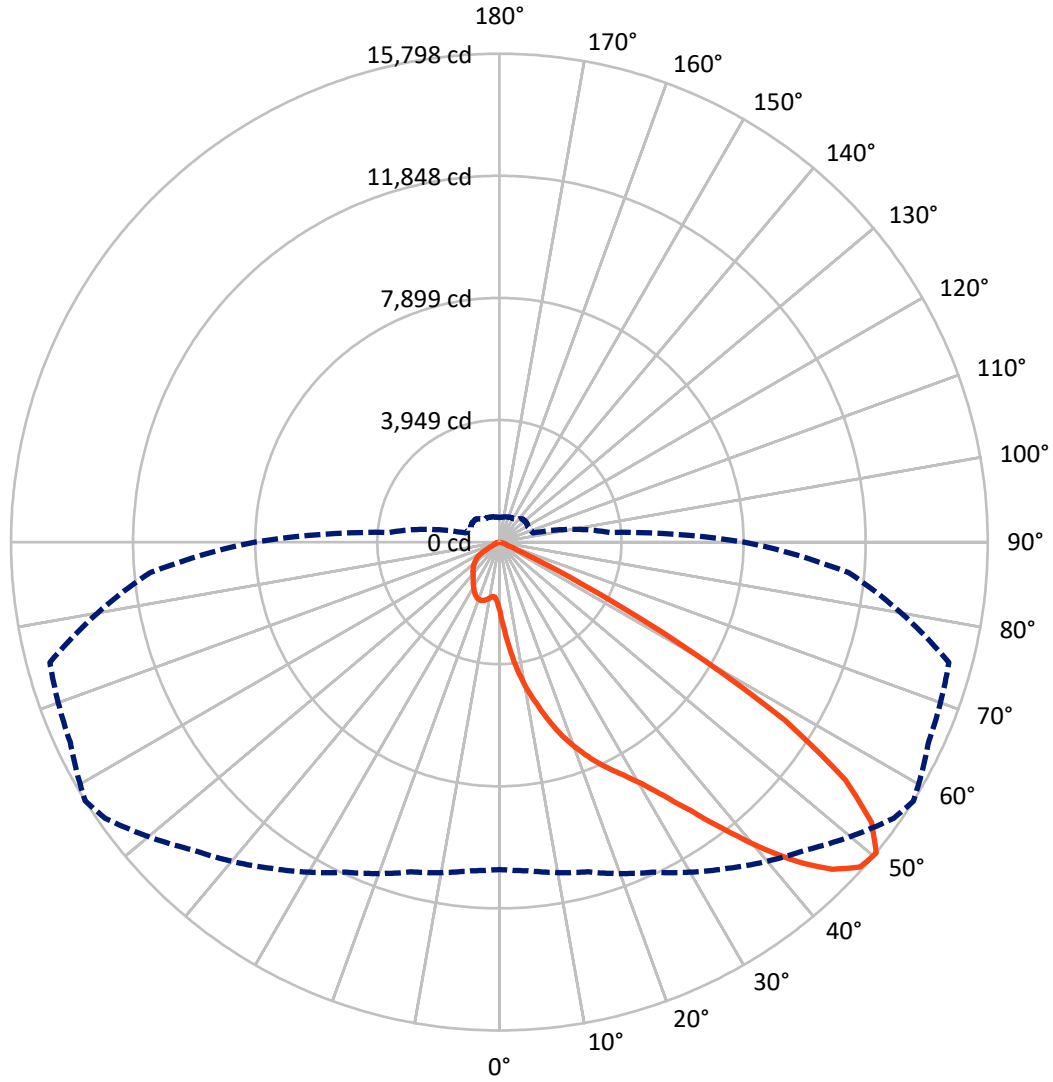
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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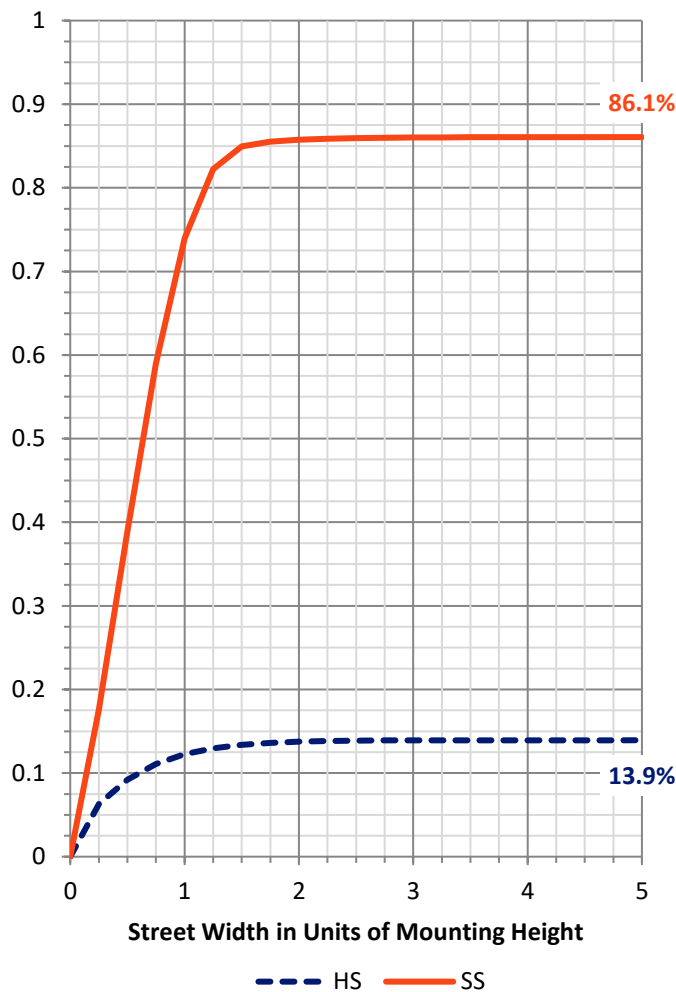
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2629.5	0.0	2629.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16143.9	0.0	16143.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	18773.4	0.0	18773.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	1.5
10°-20°	1099.8	5.9
20°-30°	2225.4	11.9
30°-40°	3937.0	21.0
40°-50°	5739.2	30.6
50°-60°	4600.1	24.5
60°-70°	828.8	4.4
70°-80°	65.3	0.3
80°-90°	0.0	0.0
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°	18773.4	100.0
0°-180°	18773.4	100.0

Coefficient of Utilization



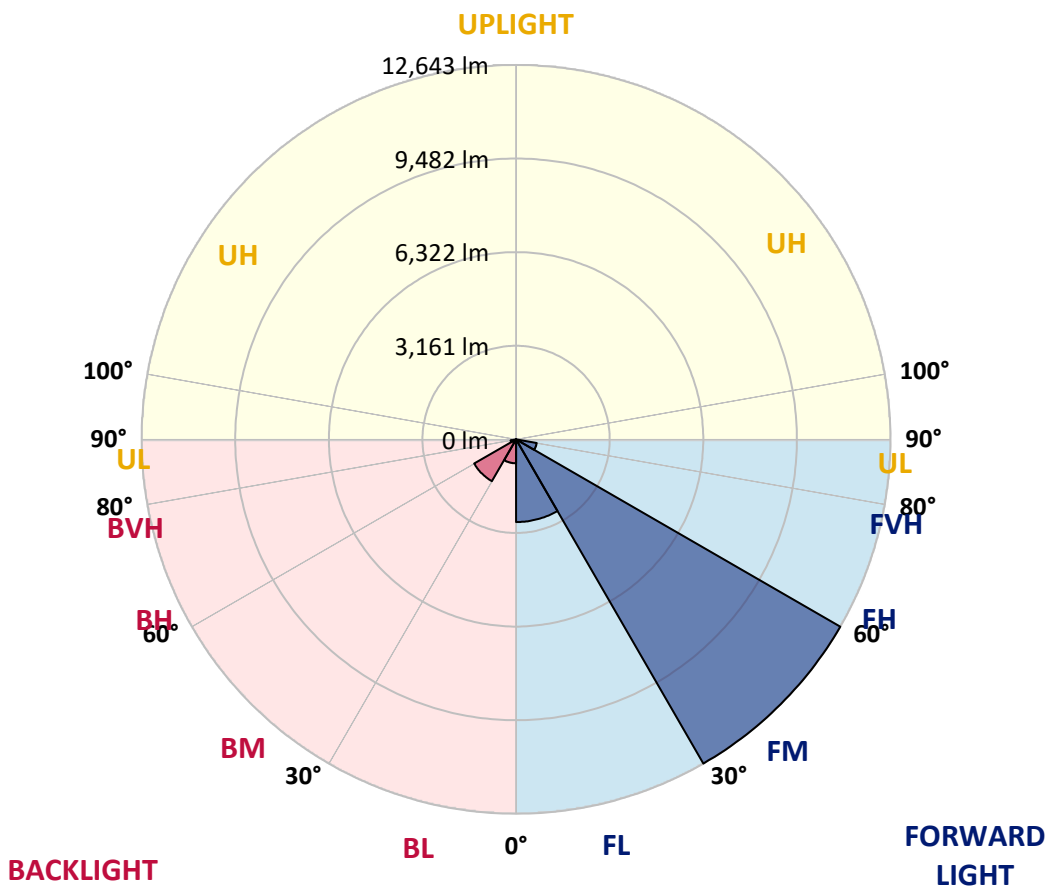
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.4	14.9			
FM (30°-60°)	12643.3	67.3			
FH (60°-80°)	707.2	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	809.5	4.3	B2/1000		
BM (30°-60°)	1633.0	8.7	B2/2500		
BH (60°-80°)	186.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5
2.5°	3318.5	3266.3	3236.2	3212.1	3105.7	2937.1	2826.7	2768.4	2672.1	2509.5	2368.9
5°	4330.3	4292.2	4221.9	4173.7	4037.2	3798.3	3551.4	3453.0	3234.2	2866.8	2537.6
7.5°	5000.8	4972.7	4946.6	4882.4	4753.9	4537.1	4264.1	4161.7	3824.4	3302.4	2762.4
10°	5516.8	5494.7	5464.6	5462.6	5362.2	5167.5	4900.5	4794.1	4428.7	3776.2	3027.4
12.5°	5970.5	5952.4	5946.4	6002.6	5938.4	5793.8	5504.7	5372.2	4984.8	4260.1	3320.5
15°	6281.7	6277.7	6303.8	6414.2	6450.3	6384.1	6141.1	5998.6	5552.9	4745.9	3643.7
17.5°	6424.2	6436.3	6486.4	6677.2	6837.8	6894.0	6707.3	6586.8	6117.1	5237.7	3989.0
20°	6667.1	6663.1	6693.2	6873.9	7070.6	7271.4	7215.2	7112.8	6687.2	5757.7	4372.5
22.5°	7351.7	7293.5	7229.2	7257.3	7327.6	7562.5	7666.9	7614.7	7275.4	6291.7	4768.0
25°	8403.7	8343.4	8136.7	7935.9	7803.4	7909.8	8052.3	8078.4	7859.6	6839.8	5181.5
27.5°	9519.9	9465.7	9232.8	8931.7	8552.2	8367.5	8473.9	8526.1	8433.8	7492.2	5621.2
30°	10565.8	10493.5	10238.6	9865.2	9425.5	9142.5	9022.0	9058.1	9112.3	8265.1	6137.1
32.5°	11473.2	11419.0	11113.9	10720.4	10296.8	10001.7	9720.6	9780.9	9913.4	9210.7	6797.6
35°	12242.1	12214.0	11890.8	11499.3	11051.6	10901.1	10660.2	10672.2	10804.7	10353.0	7602.6
37.5°	12910.7	12862.5	12569.4	12206.0	11850.7	11826.6	11760.3	11766.3	11834.6	11684.0	8528.1
40°	13332.2	13288.1	13079.3	12854.4	12601.5	12605.5	12948.8	12974.9	12896.6	12991.0	9505.8
42.5°	13490.8	13458.7	13346.3	13348.3	13322.2	13440.6	14085.1	14133.3	13852.2	14016.8	10341.0
45°	13215.8	13201.7	13209.8	13498.9	13812.0	14177.4	15014.6	15098.9	14701.4	14697.4	10993.4
47.5°	12328.5	12300.4	12535.2	13027.1	13751.8	14462.5	15576.7	15707.2	15295.6	15086.9	11403.0
50°	10589.9	10670.2	11041.6	11780.4	12882.5	14071.0	15570.7	15797.5	15317.7	15052.7	11334.7
52.5°	7670.9	7654.8	8467.9	9483.7	10824.8	12818.3	14743.6	15074.8	14781.7	14717.5	11182.1
55°	4173.7	4320.3	4868.3	6213.4	7887.7	10447.4	12854.4	13577.2	13916.4	14595.0	11457.2
57.5°	1533.8	1598.0	1941.3	2892.9	4175.7	6496.5	9819.0	10909.1	11957.1	14253.7	11411.0
60°	618.3	630.4	766.9	1064.0	1754.6	3306.5	5890.2	6857.8	7845.6	10911.1	8757.0
62.5°	449.7	465.8	520.0	622.3	887.3	1445.4	2539.6	2953.1	3228.2	5404.4	4314.3
65°	363.4	375.4	419.6	465.8	586.2	776.9	819.1	789.0	785.0	1397.3	989.7
67.5°	301.1	313.2	345.3	377.4	421.6	387.5	281.1	295.1	240.9	238.9	194.7
70°	220.8	234.9	267.0	301.1	253.0	104.4	162.6	240.9	182.7	152.6	148.6
72.5°	166.6	176.7	206.8	196.7	74.3	40.2	108.4	174.7	140.5	112.4	110.4
75°	124.5	130.5	104.4	32.1	8.0	10.0	40.2	72.3	78.3	64.2	64.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.0	6.0	8.0	10.0	12.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5	2242.5
2.5°	2288.6	2204.3	2083.9	1983.5	1907.2	1832.9	1776.7	1720.5	1718.5	1690.4	1684.3
5°	2385.0	2232.4	2011.6	1853.0	1756.6	1698.4	1658.2	1638.2	1628.1	1618.1	1614.1
7.5°	2523.5	2304.7	1999.5	1830.9	1750.6	1712.5	1684.3	1672.3	1666.3	1658.2	1656.2
10°	2694.2	2409.1	2043.7	1873.1	1802.8	1766.7	1736.5	1718.5	1708.4	1694.4	1690.4
12.5°	2898.9	2537.6	2114.0	1943.3	1869.0	1820.9	1780.7	1754.6	1740.6	1722.5	1718.5
15°	3119.8	2676.1	2192.3	2007.6	1919.2	1857.0	1806.8	1766.7	1740.6	1718.5	1712.5
17.5°	3348.6	2816.6	2262.5	2051.7	1943.3	1869.0	1796.8	1742.6	1710.4	1682.3	1674.3
20°	3605.6	2961.2	2308.7	2059.8	1935.3	1836.9	1752.6	1684.3	1652.2	1614.1	1606.1
22.5°	3874.6	3095.7	2328.8	2041.7	1891.1	1776.7	1686.4	1616.1	1569.9	1529.8	1517.7
25°	4135.6	3216.1	2318.7	1991.5	1824.9	1692.4	1600.0	1527.8	1477.6	1437.4	1427.4
27.5°	4412.6	3316.5	2282.6	1917.2	1734.5	1600.0	1511.7	1449.5	1403.3	1359.1	1349.1
30°	4723.8	3408.8	2224.4	1826.9	1628.1	1505.7	1437.4	1395.3	1345.1	1298.9	1284.8
32.5°	5099.2	3491.2	2140.1	1718.5	1533.8	1423.4	1385.2	1353.1	1294.9	1246.7	1236.7
35°	5528.8	3559.4	2033.7	1606.1	1441.4	1371.2	1363.1	1321.0	1244.7	1188.5	1176.4
37.5°	6026.7	3625.7	1907.2	1495.6	1373.2	1347.1	1349.1	1276.8	1184.5	1116.2	1108.2
40°	6562.7	3691.9	1766.7	1399.3	1310.9	1333.0	1315.0	1212.6	1062.0	995.8	987.7
42.5°	7120.8	3764.2	1624.1	1308.9	1258.7	1278.8	1252.7	1084.1	975.7	941.5	937.5
45°	7624.7	3850.5	1469.5	1218.6	1206.5	1200.5	1156.4	981.7	935.5	911.4	909.4
47.5°	7988.1	3836.5	1304.9	1132.3	1150.3	1130.3	995.8	933.5	895.4	863.3	855.2
50°	7921.9	3591.5	1134.3	1035.9	1078.1	1060.0	895.4	877.3	843.2	809.0	797.0
52.5°	7753.2	3258.3	985.7	933.5	999.8	957.6	827.1	809.0	778.9	734.8	720.7
55°	7843.6	2945.1	869.3	851.2	919.5	793.0	750.8	722.7	690.6	642.4	636.4
57.5°	7552.5	2403.1	698.6	710.7	813.1	676.5	658.5	614.3	560.1	528.0	524.0
60°	5227.7	1290.9	437.6	451.7	588.2	568.1	590.2	550.1	483.8	453.7	447.7
62.5°	2401.0	518.0	238.9	228.9	309.2	385.5	505.9	501.9	419.6	371.4	367.4
65°	582.2	236.9	170.6	160.6	174.7	230.9	329.2	395.5	339.3	283.1	277.0
67.5°	188.7	192.7	156.6	146.6	154.6	172.7	196.7	218.8	216.8	198.7	194.7
70°	150.6	174.7	144.5	132.5	132.5	138.5	132.5	106.4	92.3	100.4	104.4
72.5°	112.4	132.5	114.4	102.4	98.4	96.4	82.3	60.2	42.2	38.1	36.1
75°	66.2	74.3	70.3	60.2	56.2	50.2	40.2	26.1	14.1	10.0	6.0
77.5°	12.0	14.1	16.1	12.0	10.0	8.0	6.0	2.0	0.0	0.0	0.0
80°	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)