

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: P641678

Luminaire Tested: GWS-SA6B-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 12404.1 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

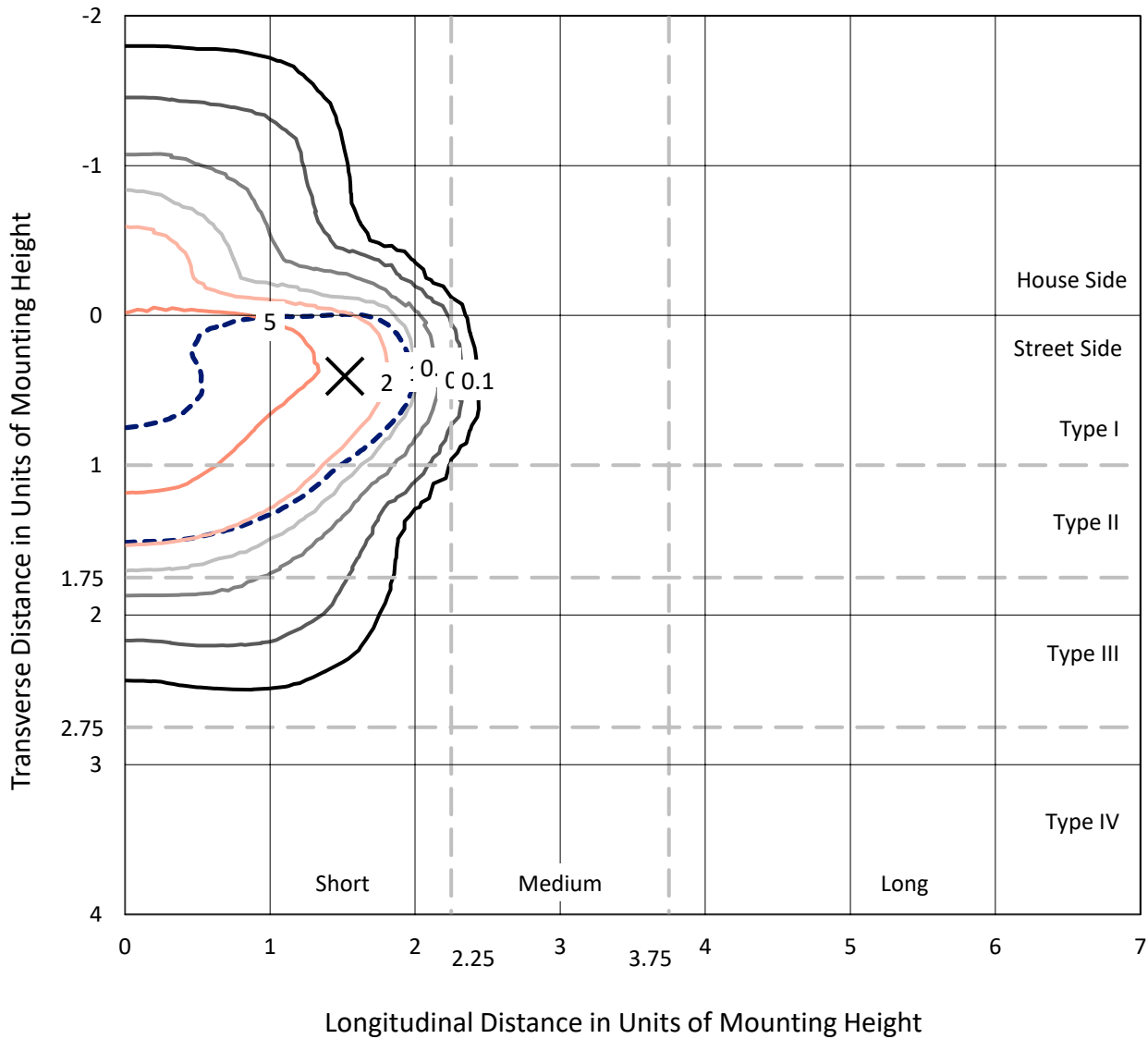
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641678
 CATALOG NUMBER: GWS-SA6B-735-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

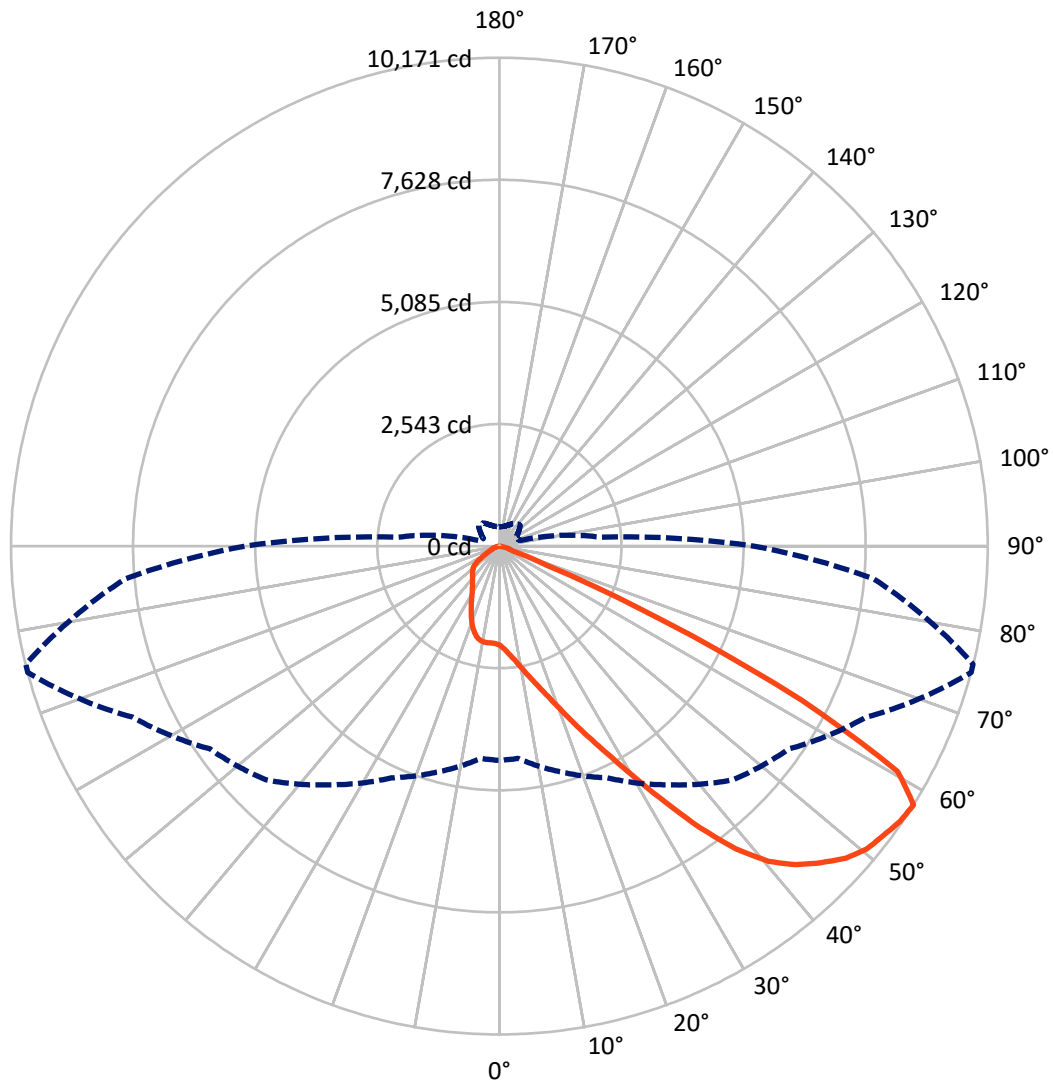
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P641678
CATALOG NUMBER: GWS-SA6B-735-U-T2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P641678
 CATALOG NUMBER: GWS-SA6B-735-U-T2-W-GRSBK

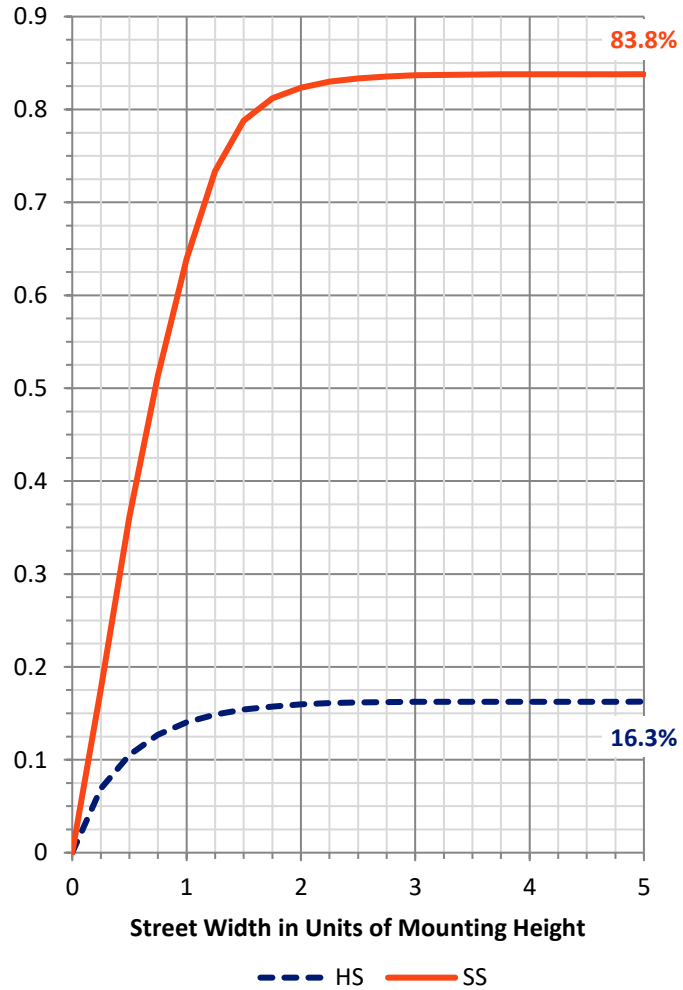
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2026.2	0.0	2026.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	10377.9	0.0	10377.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	12404.1	0.0	12404.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	1.7
10°-20°	683.9	5.5
20°-30°	1252.3	10.1
30°-40°	2077.7	16.8
40°-50°	3173.2	25.6
50°-60°	3565.6	28.7
60°-70°	1315.1	10.6
70°-80°	125.7	1.0
80°-90°	0.1	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°	12404.1	100.0
0°-180°	12404.1	100.0

Coefficient of Utilization



REPORT NUMBER: P641678

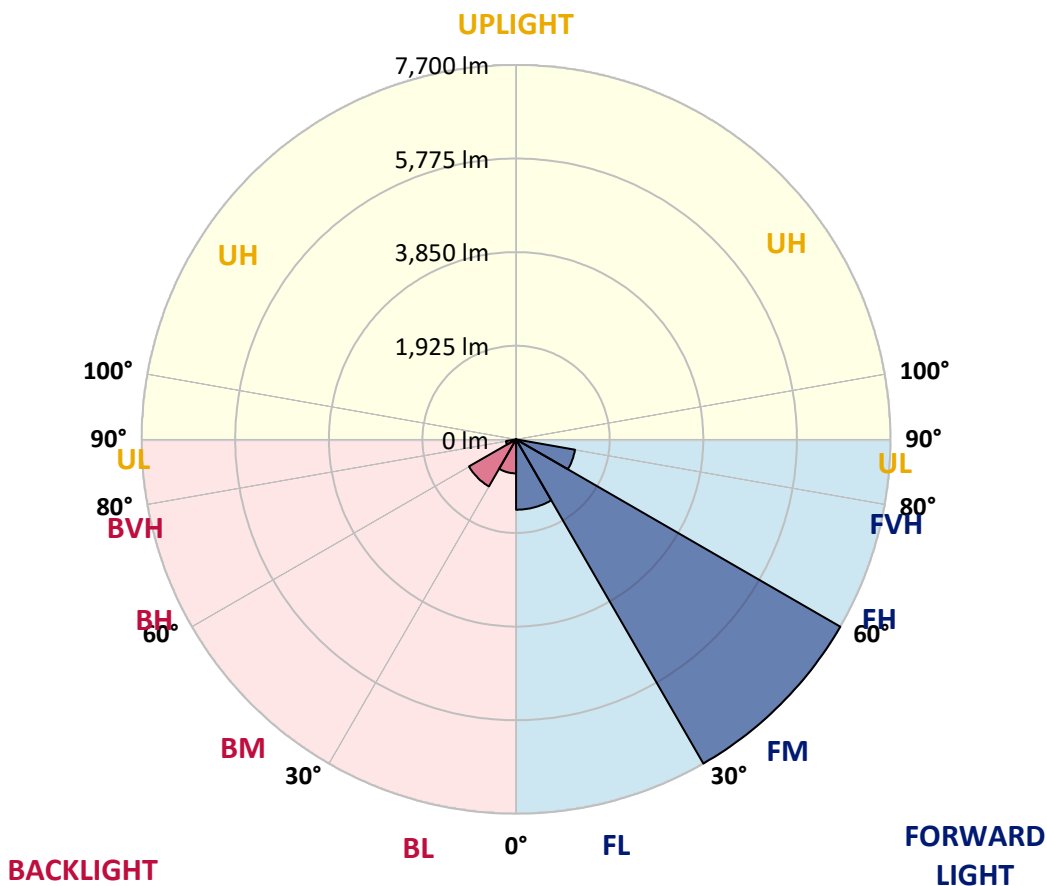
CATALOG NUMBER: GWS-SA6B-735-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.5	11.7			
FM (30°-60°)	7699.9	62.1			
FH (60°-80°)	1230.4	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	699.2	5.6	B2/1000		
BM (30°-60°)	1116.6	9.0	B2/2500		
BH (60°-80°)	210.4	1.7	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





REPORT NUMBER: P641678
 CATALOG NUMBER: GWS-SA6B-735-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8
2.5°	2311.3	2335.3	2327.8	2312.8	2303.9	2272.4	2253.0	2196.1	2155.7	2151.2	2113.7
5°	2603.3	2598.8	2592.8	2574.8	2559.8	2510.4	2452.1	2356.3	2270.9	2260.4	2181.1
7.5°	2763.4	2766.4	2769.4	2766.4	2755.9	2718.5	2654.2	2541.9	2411.6	2402.7	2276.9
10°	2829.3	2835.3	2850.3	2878.7	2904.1	2901.2	2863.7	2748.5	2588.3	2573.3	2404.2
12.5°	2860.7	2868.2	2892.2	2946.1	3014.9	3068.8	3074.8	2971.5	2794.9	2770.9	2555.4
15°	2904.1	2911.6	2941.6	3011.9	3112.2	3218.5	3287.4	3221.5	3023.9	2998.5	2721.5
17.5°	2923.6	2934.1	2977.5	3070.3	3200.6	3363.7	3519.4	3513.4	3294.9	3275.4	2914.6
20°	2961.0	2968.5	3007.4	3107.7	3264.9	3499.9	3761.9	3856.2	3625.7	3597.3	3148.2
22.5°	3079.3	3082.3	3100.3	3163.1	3309.8	3598.7	4008.9	4255.9	4016.4	3979.0	3410.1
25°	3272.4	3270.9	3278.4	3288.9	3396.7	3699.0	4246.9	4706.5	4464.0	4423.6	3706.5
27.5°	3517.9	3517.9	3535.9	3505.9	3549.3	3823.3	4482.0	5224.5	4985.0	4928.1	4031.4
30°	3806.8	3805.3	3847.2	3799.3	3812.8	4019.4	4735.0	5788.8	5613.7	5543.3	4405.6
32.5°	4199.0	4190.1	4238.0	4172.1	4127.2	4315.8	5043.3	6378.6	6366.7	6258.9	4875.7
35°	4694.5	4679.6	4694.5	4630.2	4549.3	4730.5	5447.5	6967.0	7202.0	7088.2	5435.5
37.5°	5187.0	5235.0	5251.4	5140.6	5074.8	5255.9	5934.0	7493.9	7999.9	7881.6	6017.9
40°	5767.9	5752.9	5809.8	5685.5	5643.6	5844.2	6410.1	7886.1	8631.6	8519.3	6535.8
42.5°	6196.0	6223.0	6293.3	6224.5	6191.5	6380.1	6809.8	8115.1	9070.2	8959.4	6905.6
45°	6709.5	6728.9	6755.9	6699.0	6664.6	6850.2	7098.7	8215.4	9404.1	9284.3	7154.1
47.5°	7264.9	7279.8	7279.8	7163.1	7052.3	7128.6	7291.8	8272.3	9710.9	9595.7	7338.2
50°	7663.1	7670.5	7736.4	7654.1	7413.1	7294.8	7380.1	8327.7	9914.5	9806.7	7398.1
52.5°	7309.8	7300.8	7517.9	7688.5	7752.9	7517.9	7532.8	8408.6	10013.3	9920.5	7446.0
55°	6155.6	6140.6	6446.0	6860.7	7428.0	7728.9	7716.9	8456.5	10122.6	10065.7	7619.6
57.5°	4462.5	4437.1	4862.2	5323.3	6067.3	6883.1	7362.2	8429.5	10170.5	10166.0	7821.7
60°	2682.6	2661.6	3062.8	3547.9	4122.7	4943.0	5737.9	7550.8	9529.8	9538.8	7296.3
62.5°	1651.2	1670.6	2032.9	2279.9	2494.0	2741.0	3200.6	5079.3	7059.8	7118.2	5127.2
65°	1110.8	1125.7	1461.1	1772.4	1772.4	1449.1	1244.0	2428.1	3766.4	3667.6	2425.1
67.5°	745.5	762.0	1026.9	1390.7	1443.1	1010.5	504.5	724.5	1049.4	1017.9	600.3
70°	438.6	456.6	684.1	953.6	1050.9	703.6	336.8	306.9	297.9	288.9	233.5
72.5°	196.1	203.6	348.8	485.0	443.1	296.4	238.0	245.5	232.0	227.5	190.1
75°	59.9	62.9	89.8	104.8	106.3	106.3	143.7	193.1	182.6	184.1	146.7
77.5°	15.0	15.0	24.0	22.5	12.0	10.5	26.9	43.4	44.9	40.4	29.9
80°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
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



REPORT NUMBER: P641678

CATALOG NUMBER: GWS-SA6B-735-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8
2.5°	2097.3	2058.4	2032.9	1997.0	1971.5	1944.6	1920.6	1901.2	1890.7	1887.7	1889.2
5°	2145.2	2083.8	2023.9	1955.1	1907.2	1862.2	1826.3	1797.9	1784.4	1779.9	1779.9
7.5°	2218.5	2133.2	2026.9	1919.1	1838.3	1767.9	1726.0	1694.6	1682.6	1679.6	1670.6
10°	2314.3	2197.6	2022.4	1854.8	1741.0	1667.6	1637.7	1628.7	1633.2	1634.7	1633.2
12.5°	2429.6	2264.9	1994.0	1760.5	1637.7	1592.8	1595.8	1619.7	1646.7	1660.2	1663.1
15°	2552.4	2326.3	1929.6	1648.2	1549.4	1547.9	1591.3	1646.7	1699.1	1721.5	1727.5
17.5°	2690.1	2375.7	1830.8	1528.4	1473.0	1516.4	1594.3	1679.6	1750.0	1787.4	1794.9
20°	2841.3	2416.1	1705.1	1416.1	1405.7	1483.5	1591.3	1696.1	1782.9	1824.8	1832.3
22.5°	2998.5	2444.6	1559.9	1312.9	1344.3	1446.1	1562.9	1664.6	1747.0	1794.9	1800.9
25°	3178.1	2447.6	1411.7	1226.0	1287.4	1395.2	1494.0	1577.8	1646.7	1688.6	1693.1
27.5°	3335.3	2411.6	1279.9	1155.7	1235.0	1332.3	1398.2	1444.6	1492.5	1516.4	1517.9
30°	3516.4	2348.8	1155.7	1098.8	1181.1	1254.5	1287.4	1297.9	1302.4	1306.9	1300.9
32.5°	3732.0	2272.4	1062.9	1043.4	1119.7	1169.1	1178.1	1157.2	1131.7	1095.8	1086.8
35°	3996.9	2203.6	986.5	989.5	1052.4	1082.3	1074.8	1029.9	980.5	937.1	929.6
37.5°	4284.4	2145.2	928.1	937.1	979.0	1000.0	977.5	928.1	905.7	868.3	869.7
40°	4538.9	2097.3	875.7	884.7	904.2	923.6	887.7	854.8	896.7	893.7	896.7
42.5°	4720.0	2056.9	830.8	826.3	839.8	853.3	826.3	809.9	880.2	860.8	871.2
45°	4826.3	2019.4	793.4	766.5	787.4	811.4	793.4	772.4	796.4	706.6	699.1
47.5°	4898.1	1998.5	760.5	708.1	745.5	787.4	750.0	699.1	664.7	586.8	580.8
50°	4905.6	1988.0	721.5	648.2	696.1	741.0	697.6	627.2	577.8	543.4	538.9
52.5°	4944.5	2009.0	667.7	571.8	624.2	696.1	666.2	595.8	528.4	498.5	492.5
55°	5118.2	2097.3	577.8	467.1	543.4	661.7	640.7	531.4	467.1	449.1	444.6
57.5°	5297.8	2115.2	455.1	369.8	473.0	612.3	585.3	489.5	426.6	405.7	401.2
60°	4844.2	1742.5	341.3	305.4	417.7	565.9	541.9	464.1	390.7	365.3	360.8
62.5°	3182.6	941.6	271.0	259.0	351.8	479.0	494.0	419.2	348.8	321.9	320.4
65°	1467.0	437.1	208.1	205.1	275.4	381.7	425.1	366.8	294.9	271.0	271.0
67.5°	399.7	217.1	163.2	151.2	187.1	256.0	309.9	273.9	209.6	181.1	179.6
70°	199.1	175.1	146.7	130.2	134.7	158.7	182.6	152.7	106.3	86.8	85.3
72.5°	163.2	143.7	124.2	110.8	101.8	97.3	94.3	76.3	49.4	37.4	35.9
75°	121.3	103.3	88.3	71.9	61.4	56.9	50.9	37.4	21.0	12.0	10.5
77.5°	26.9	25.4	24.0	18.0	16.5	13.5	10.5	7.5	3.0	0.0	0.0
80°	1.5	1.5	1.5	1.5	1.5	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)