

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: P642232

Luminaire Tested: GWS-SA6C-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642232
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19034.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

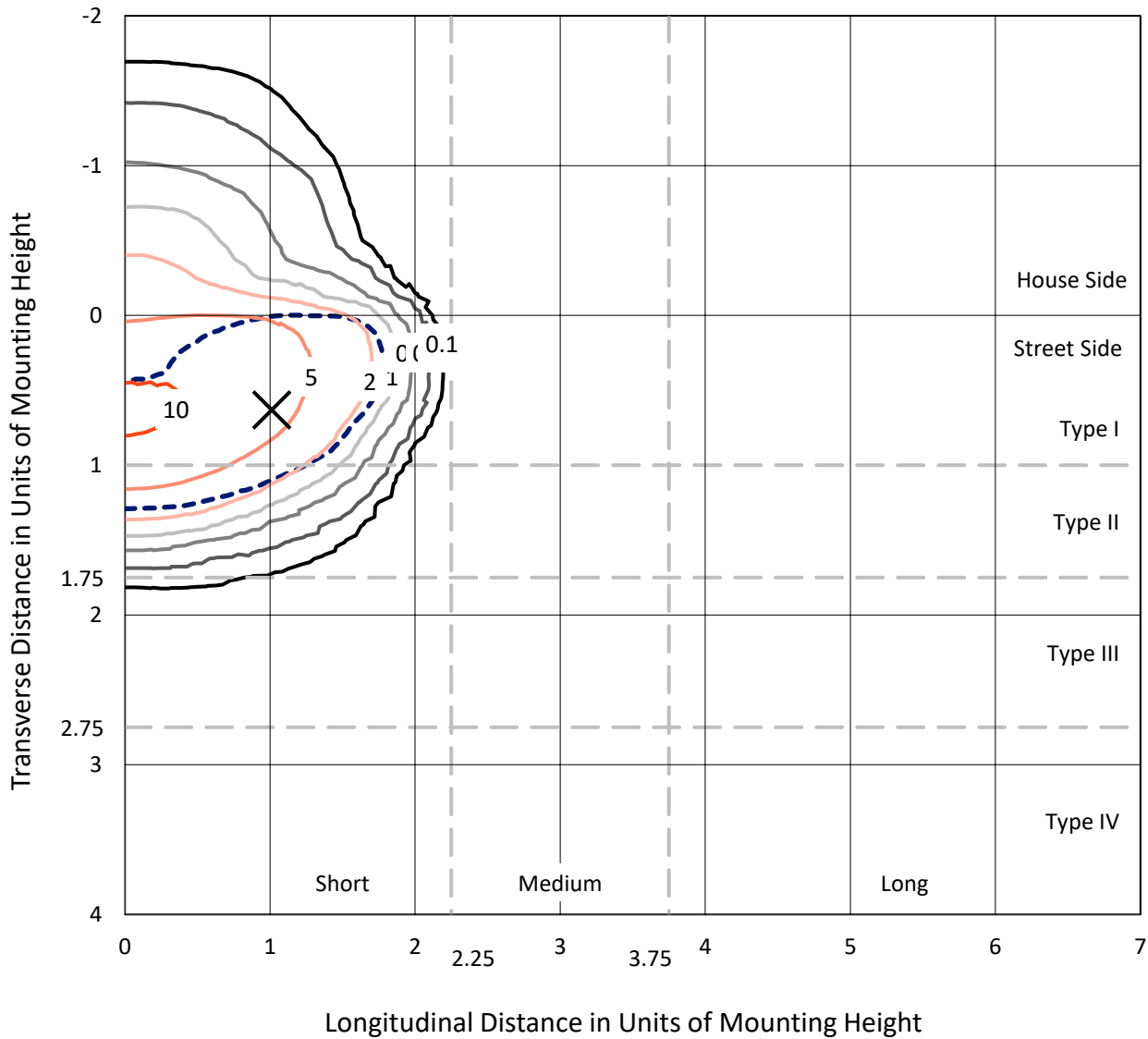
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642232
 CATALOG NUMBER: GWS-SA6C-740-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

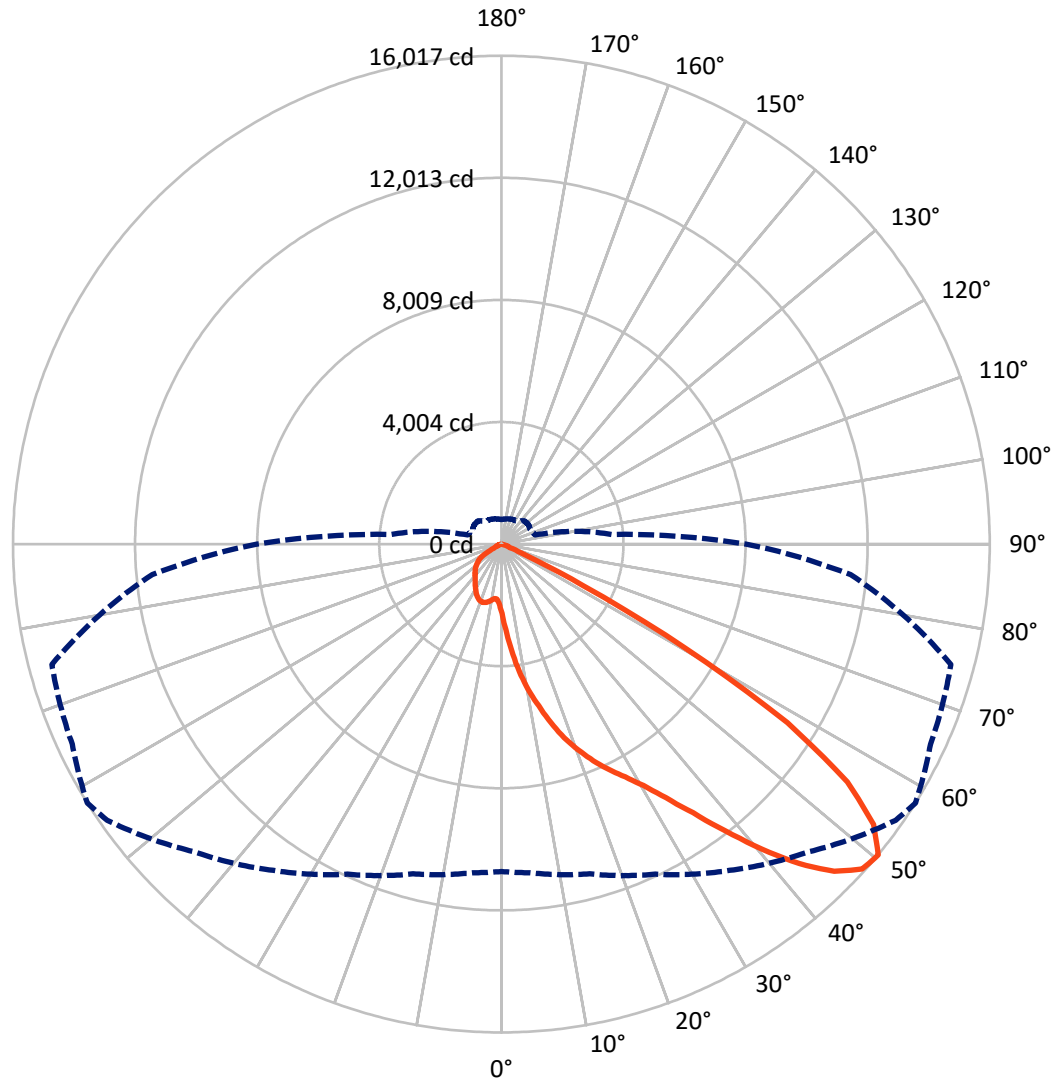
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P642232
CATALOG NUMBER: GWS-SA6C-740-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P642232

CATALOG NUMBER: GWS-SA6C-740-U-T2R-W-GRSBK

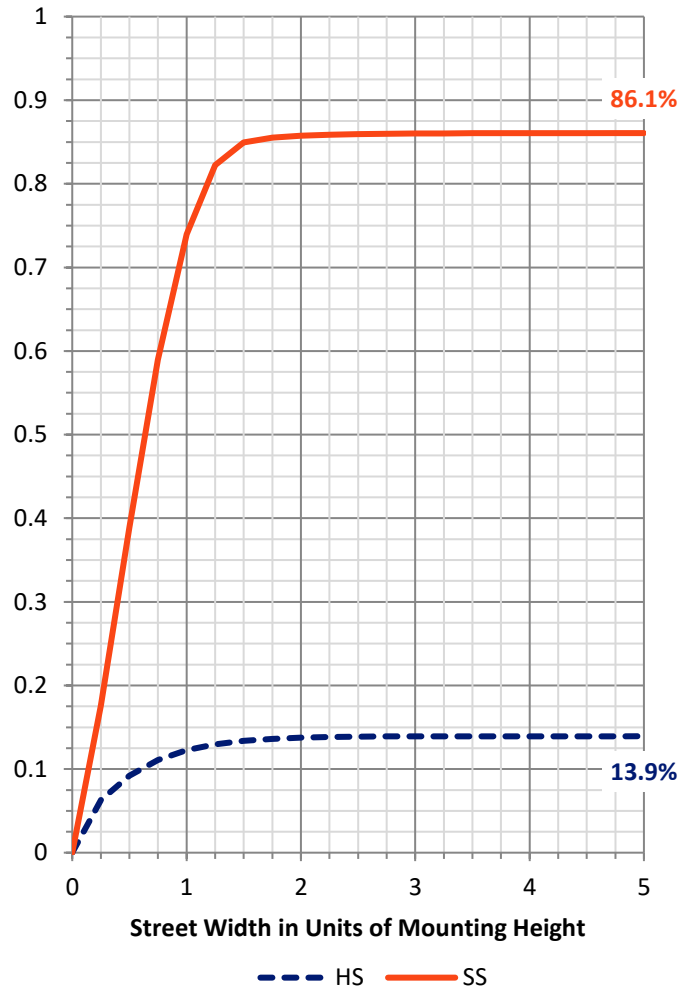
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2666.0	0.0	2666.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16368.3	0.0	16368.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	19034.3	0.0	19034.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.7	1.5
10°-20°	1115.0	5.9
20°-30°	2256.3	11.9
30°-40°	3991.7	21.0
40°-50°	5819.0	30.6
50°-60°	4664.1	24.5
60°-70°	840.3	4.4
70°-80°	66.2	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°	19034.3	100.0
0°-180°	19034.3	100.0

Coefficient of Utilization



REPORT NUMBER: P642232

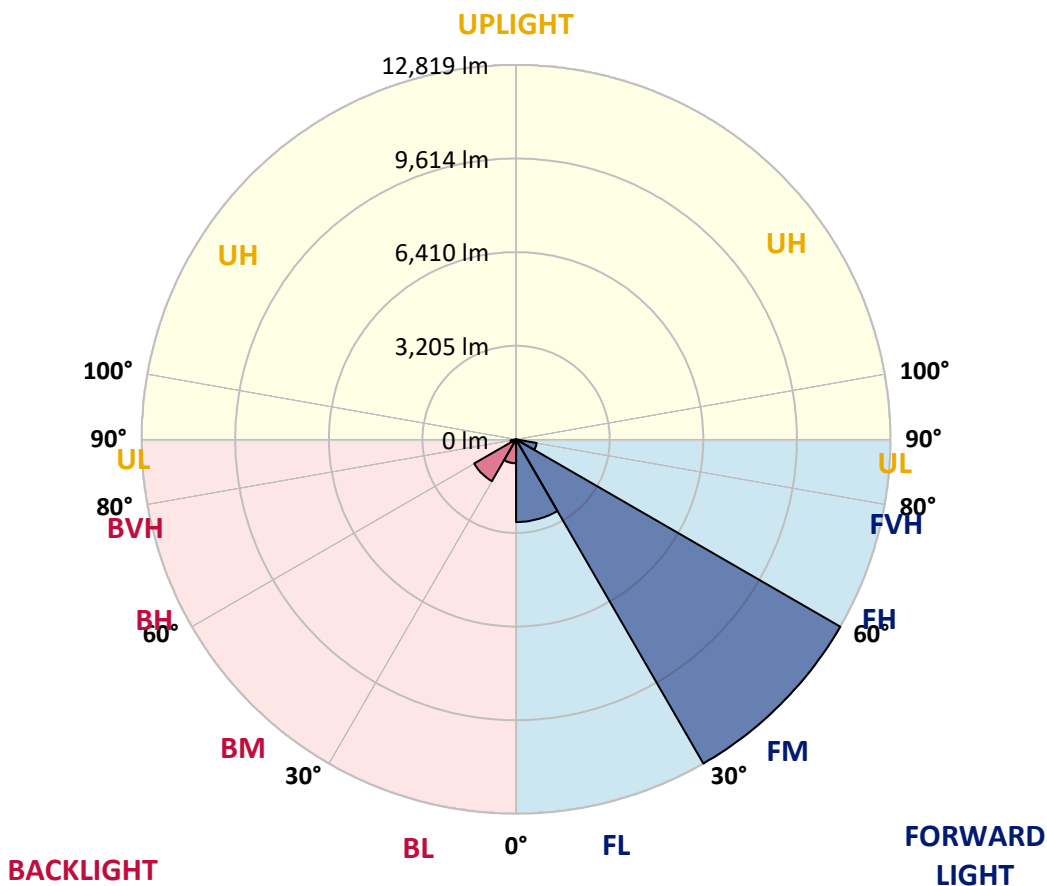
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2832.2	14.9			
FM (30°-60°)	12819.0	67.3			
FH (60°-80°)	717.0	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	820.8	4.3	B2/1000		
BM (30°-60°)	1655.7	8.7	B2/2500		
BH (60°-80°)	189.5	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





REPORT NUMBER: P642232

CATALOG NUMBER: GWS-SA6C-740-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6
2.5°	3364.6	3311.7	3281.2	3256.7	3148.9	2977.9	2865.9	2806.9	2709.2	2544.3	2401.8
5°	4390.5	4351.8	4280.6	4231.7	4093.3	3851.1	3600.7	3501.0	3279.1	2906.6	2572.8
7.5°	5070.3	5041.8	5015.4	4950.3	4820.0	4600.2	4323.3	4219.5	3877.6	3348.3	2800.8
10°	5593.5	5571.1	5540.5	5538.5	5436.7	5239.3	4968.6	4860.7	4490.2	3828.7	3069.5
12.5°	6053.5	6035.2	6029.0	6086.0	6020.9	5874.4	5581.2	5446.9	5054.1	4319.3	3366.7
15°	6369.0	6364.9	6391.4	6503.3	6539.9	6472.8	6226.5	6082.0	5630.1	4811.8	3694.4
17.5°	6513.5	6525.7	6576.6	6770.0	6932.8	6989.8	6800.5	6678.4	6202.1	5310.5	4044.5
20°	6759.8	6755.7	6786.2	6969.4	7168.9	7372.5	7315.5	7211.7	6780.1	5837.7	4433.2
22.5°	7453.9	7394.8	7329.7	7358.2	7429.4	7667.6	7773.4	7720.5	7376.5	6379.1	4834.2
25°	8520.5	8459.4	8249.7	8046.2	7911.9	8019.7	8164.3	8190.7	7968.8	6934.8	5253.5
27.5°	9652.2	9597.2	9361.1	9055.8	8671.1	8483.8	8591.7	8644.6	8551.0	7596.4	5699.3
30°	10712.7	10639.4	10380.9	10002.3	9556.5	9269.5	9147.4	9184.0	9239.0	8380.0	6222.4
32.5°	11632.7	11577.7	11268.3	10869.4	10439.9	10140.7	9855.7	9916.8	10051.1	9338.7	6892.1
35°	12412.3	12383.8	12056.1	11659.1	11205.2	11052.6	10808.3	10820.5	10954.9	10496.9	7708.3
37.5°	13090.1	13041.2	12744.0	12375.6	12015.4	11990.9	11923.8	11929.9	11999.1	11846.4	8646.7
40°	13517.5	13472.7	13261.1	13033.1	12776.6	12780.7	13128.7	13155.2	13075.8	13171.5	9637.9
42.5°	13678.3	13645.8	13531.8	13533.8	13507.3	13627.4	14280.8	14329.7	14044.7	14211.6	10484.7
45°	13399.5	13385.2	13393.4	13686.5	14004.0	14374.5	15223.2	15308.7	14905.7	14901.6	11146.2
47.5°	12499.8	12471.3	12709.4	13208.1	13942.9	14663.5	15793.2	15925.5	15508.2	15296.5	11561.4
50°	10737.1	10818.5	11195.1	11944.1	13061.6	14266.6	15787.1	16017.1	15530.6	15261.9	11492.2
52.5°	7777.5	7761.2	8585.6	9615.5	10975.2	12996.4	14948.5	15284.3	14987.1	14922.0	11337.5
55°	4231.7	4380.3	4936.0	6299.8	7997.3	10592.6	13033.1	13765.9	14109.8	14797.8	11616.4
57.5°	1555.1	1620.2	1968.3	2933.1	4233.8	6586.8	9955.5	11060.7	12123.2	14451.8	11569.6
60°	626.9	639.1	777.5	1078.8	1779.0	3352.4	5972.1	6953.1	7954.6	11062.8	8878.7
62.5°	455.9	472.2	527.2	631.0	899.7	1465.5	2574.9	2994.2	3273.0	5479.5	4374.2
65°	368.4	380.6	425.4	472.2	594.4	787.7	830.5	799.9	795.9	1416.7	1003.5
67.5°	305.3	317.5	350.1	382.7	427.4	392.8	285.0	299.2	244.3	242.2	197.4
70°	223.9	238.1	270.7	305.3	256.5	105.8	164.9	244.3	185.2	154.7	150.6
72.5°	168.9	179.1	209.7	199.5	75.3	40.7	109.9	177.1	142.5	114.0	112.0
75°	126.2	132.3	105.8	32.6	8.1	10.2	40.7	73.3	79.4	65.1	65.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	6.1	8.1	10.2	12.2
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



REPORT NUMBER: P642232

CATALOG NUMBER: GWS-SA6C-740-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6
2.5°	2320.4	2234.9	2112.8	2011.0	1933.7	1858.4	1801.4	1744.4	1742.4	1713.9	1707.8
5°	2418.1	2263.4	2039.5	1878.7	1781.0	1722.0	1681.3	1660.9	1650.8	1640.6	1636.5
7.5°	2558.6	2336.7	2027.3	1856.3	1774.9	1736.3	1707.8	1695.5	1689.4	1681.3	1679.3
10°	2731.6	2442.6	2072.1	1899.1	1827.8	1791.2	1760.7	1742.4	1732.2	1717.9	1713.9
12.5°	2939.2	2572.8	2143.3	1970.3	1895.0	1846.2	1805.5	1779.0	1764.7	1746.4	1742.4
15°	3163.1	2713.3	2222.7	2035.5	1945.9	1882.8	1831.9	1791.2	1764.7	1742.4	1736.3
17.5°	3395.2	2855.8	2294.0	2080.2	1970.3	1895.0	1821.7	1766.8	1734.2	1705.7	1697.6
20°	3655.7	3002.3	2340.8	2088.4	1962.2	1862.5	1777.0	1707.8	1675.2	1636.5	1628.4
22.5°	3928.4	3138.7	2361.1	2070.1	1917.4	1801.4	1709.8	1638.5	1591.7	1551.0	1538.8
25°	4193.1	3260.8	2351.0	2019.2	1850.2	1715.9	1622.3	1549.0	1498.1	1457.4	1447.2
27.5°	4474.0	3362.6	2314.3	1943.9	1758.6	1622.3	1532.7	1469.6	1422.8	1378.0	1367.8
30°	4789.4	3456.2	2255.3	1852.3	1650.8	1526.6	1457.4	1414.6	1363.8	1316.9	1302.7
32.5°	5170.1	3539.7	2169.8	1742.4	1555.1	1443.1	1404.5	1371.9	1312.9	1264.0	1253.8
35°	5605.7	3608.9	2061.9	1628.4	1461.5	1390.2	1382.1	1339.3	1262.0	1205.0	1192.8
37.5°	6110.5	3676.0	1933.7	1516.4	1392.3	1365.8	1367.8	1294.6	1200.9	1131.7	1123.6
40°	6653.9	3743.2	1791.2	1418.7	1329.2	1351.5	1333.2	1229.4	1076.8	1009.6	1001.4
42.5°	7219.8	3816.5	1646.7	1327.1	1276.2	1296.6	1270.1	1099.2	989.2	954.6	950.6
45°	7730.7	3904.0	1490.0	1235.5	1223.3	1217.2	1172.4	995.3	948.5	924.1	922.1
47.5°	8099.1	3889.8	1323.1	1148.0	1166.3	1146.0	1009.6	946.5	907.8	875.2	867.1
50°	8031.9	3641.4	1150.0	1050.3	1093.0	1074.7	907.8	889.5	854.9	820.3	808.1
52.5°	7861.0	3303.6	999.4	946.5	1013.7	970.9	838.6	820.3	789.8	745.0	730.7
55°	7952.6	2986.0	881.4	863.0	932.2	804.0	761.3	732.8	700.2	651.3	645.2
57.5°	7657.4	2436.5	708.3	720.6	824.4	686.0	667.6	622.9	567.9	535.3	531.3
60°	5300.4	1308.8	443.7	458.0	596.4	576.0	598.4	557.7	490.5	460.0	453.9
62.5°	2434.4	525.1	242.2	232.0	313.5	390.8	512.9	508.9	425.4	376.6	372.5
65°	590.3	240.2	173.0	162.8	177.1	234.1	333.8	401.0	344.0	287.0	280.9
67.5°	191.3	195.4	158.8	148.6	156.7	175.0	199.5	221.9	219.8	201.5	197.4
70°	152.7	177.1	146.6	134.3	134.3	140.4	134.3	107.9	93.6	101.8	105.8
72.5°	114.0	134.3	116.0	103.8	99.7	97.7	83.5	61.1	42.7	38.7	36.6
75°	67.2	75.3	71.2	61.1	57.0	50.9	40.7	26.5	14.2	10.2	6.1
77.5°	12.2	14.2	16.3	12.2	10.2	8.1	6.1	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)