

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: P639323

Luminaire Tested: GWS-SA5B-750-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13334.1 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

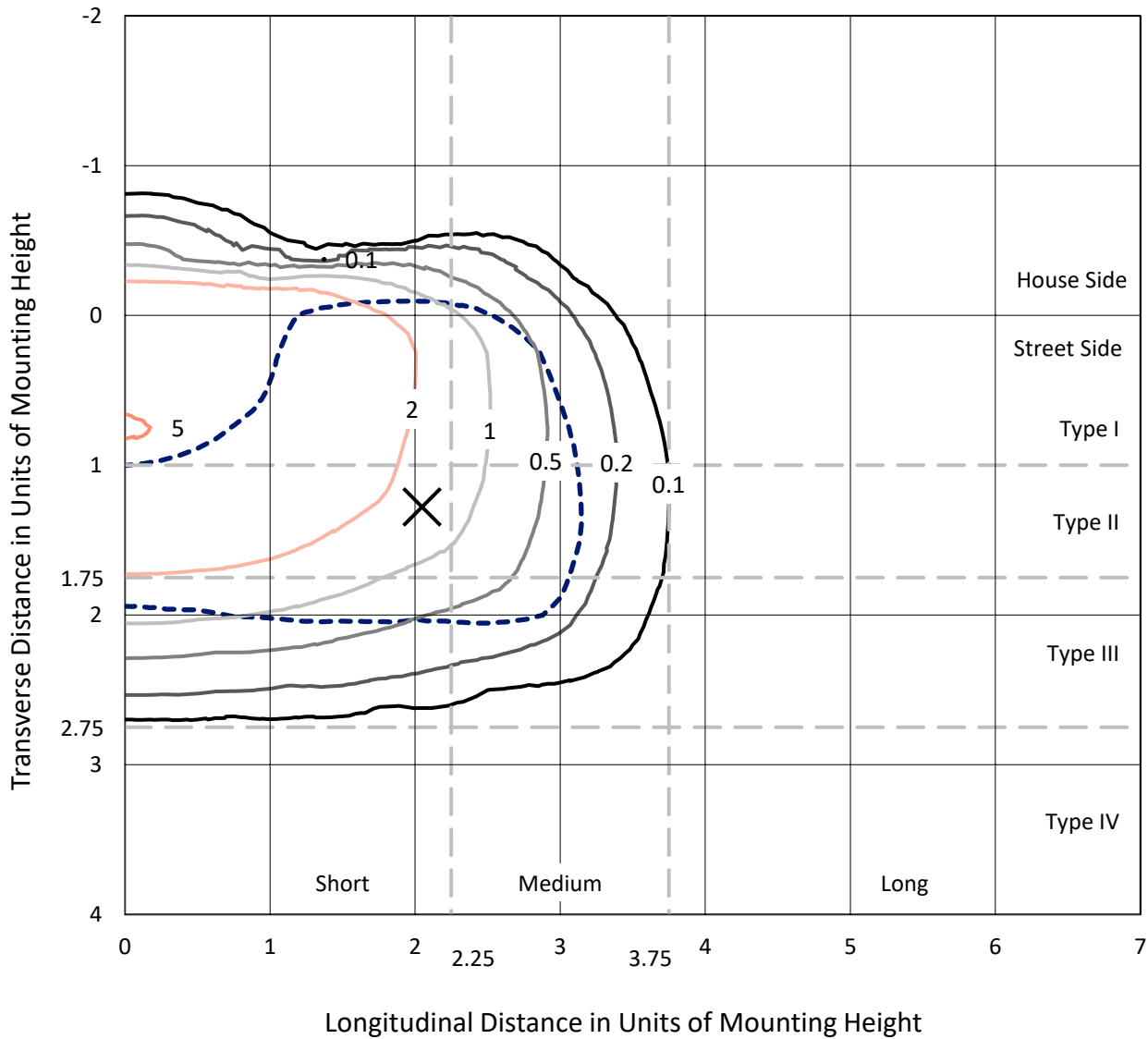
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639323
 CATALOG NUMBER: GWS-SA5B-750-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

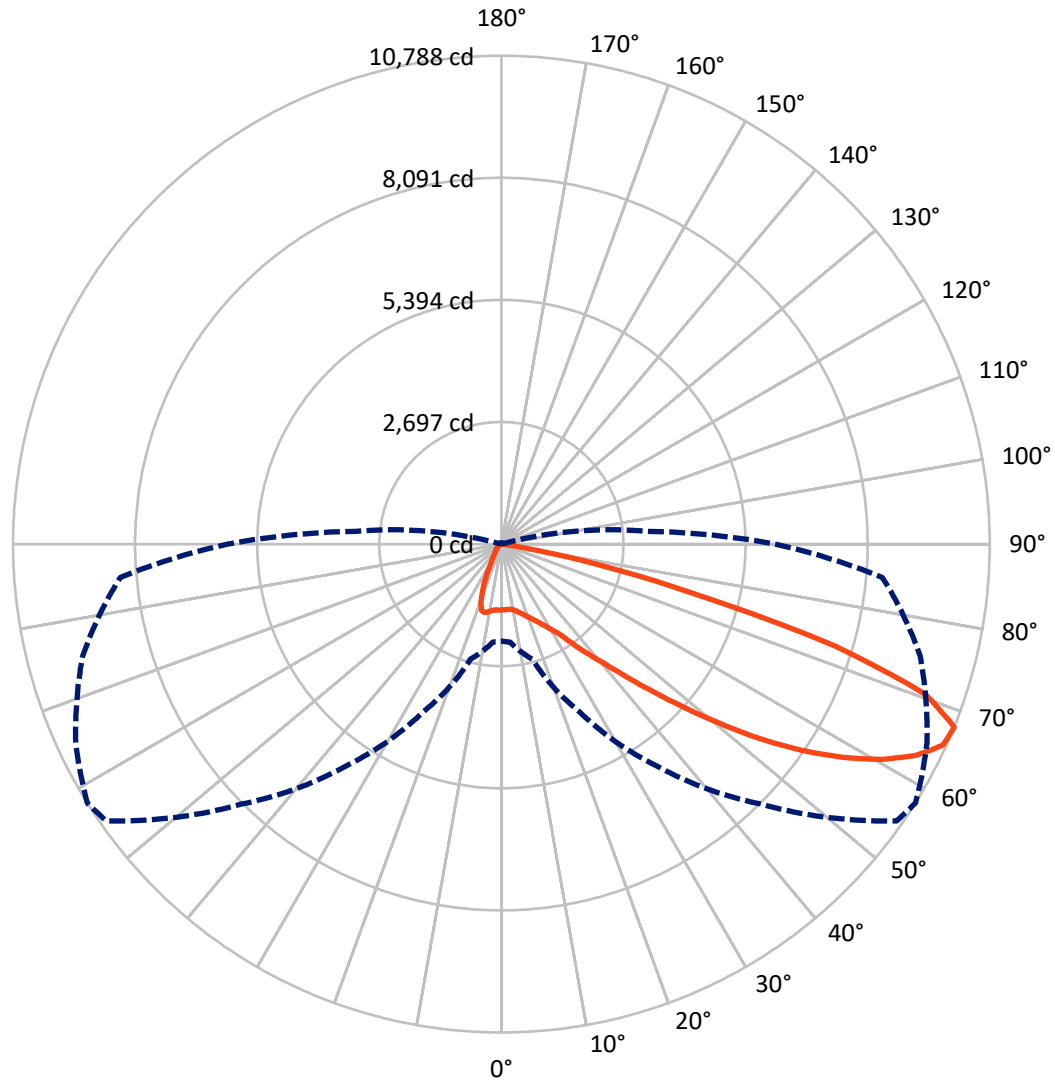
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P639323
CATALOG NUMBER: GWS-SA5B-750-U-T3-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P639323

CATALOG NUMBER: GWS-SA5B-750-U-T3-W-HSS

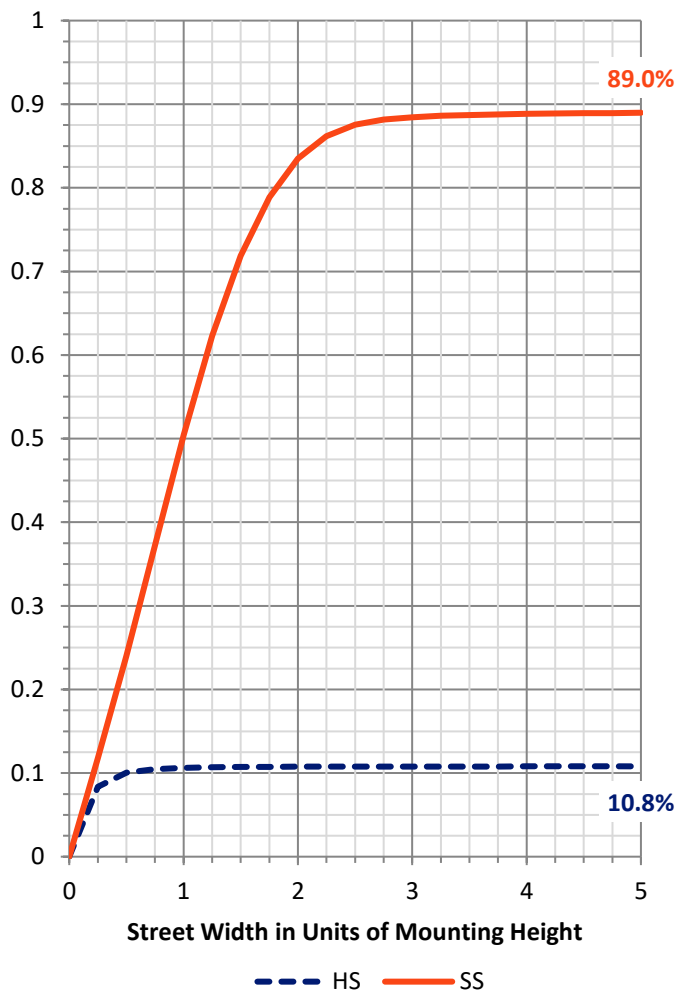
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1454.7	0.0	1454.7
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	11879.4	0.0	11879.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	13334.1	0.0	13334.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.0
10°-20°	383.2	2.9
20°-30°	668.9	5.0
30°-40°	1194.7	9.0
40°-50°	2183.6	16.4
50°-60°	3631.6	27.2
60°-70°	3944.5	29.6
70°-80°	1158.1	8.7
80°-90°	33.0	0.2
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°	13334.1	100.0
0°-180°	13334.1	100.0

Coefficient of Utilization



REPORT NUMBER: P639323

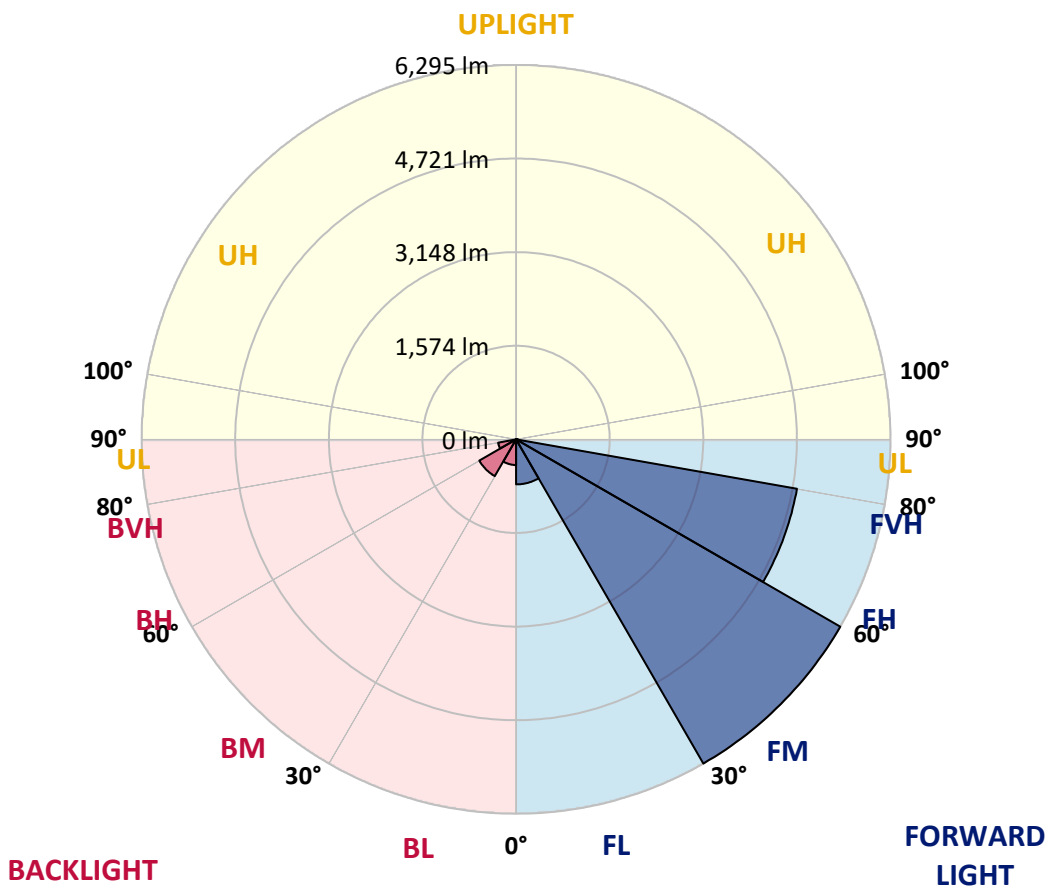
CATALOG NUMBER: GWS-SA5B-750-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.2	5.7			
FM (30°-60°)	6295.3	47.2			
FH (60°-80°)	4795.5	36.0			G2/5000
FVH (80°-90°)	31.4	0.2			G1/100
BL (0°-30°)	431.5	3.2	B1/500		
BM (30°-60°)	714.5	5.4	B1/1000		
BH (60°-80°)	307.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P639323

CATALOG NUMBER: GWS-SA5B-750-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0
2.5°	1425.7	1423.1	1423.1	1433.5	1434.8	1440.0	1451.7	1453.0	1459.5	1456.9	1447.8
5°	1351.5	1352.8	1360.6	1378.8	1394.4	1414.0	1442.6	1449.1	1463.4	1471.2	1466.0
7.5°	1282.5	1283.8	1295.5	1324.1	1354.1	1393.1	1440.0	1453.0	1481.7	1502.5	1503.8
10°	1256.4	1255.1	1266.8	1299.4	1338.4	1393.1	1460.8	1477.8	1520.7	1557.2	1563.7
12.5°	1264.2	1262.9	1274.6	1304.6	1347.6	1416.6	1497.3	1520.7	1575.4	1631.4	1643.1
15°	1295.5	1294.2	1302.0	1326.7	1373.6	1445.2	1544.2	1579.3	1648.3	1716.0	1734.2
17.5°	1389.2	1382.7	1374.9	1377.5	1404.8	1479.1	1604.0	1647.0	1732.9	1813.7	1829.3
20°	1555.9	1538.9	1518.1	1490.8	1477.8	1528.5	1673.1	1722.5	1826.7	1919.1	1921.7
22.5°	1807.2	1800.6	1752.5	1673.1	1617.1	1618.4	1753.8	1811.1	1938.7	2040.2	2025.9
25°	2157.4	2153.5	2079.3	1949.1	1803.3	1753.8	1856.6	1915.2	2071.5	2179.5	2134.0
27.5°	2592.3	2564.9	2477.7	2301.9	2084.5	1929.5	1986.8	2038.9	2212.1	2313.6	2227.7
30°	2971.1	2972.4	2890.4	2706.8	2462.1	2193.8	2145.7	2191.2	2341.0	2447.7	2343.6
32.5°	3335.7	3347.4	3257.6	3092.2	2824.0	2538.9	2373.5	2381.3	2506.3	2622.2	2495.9
35°	3674.2	3683.3	3620.8	3480.2	3230.2	2899.5	2691.2	2687.3	2755.0	2873.5	2708.1
37.5°	4053.1	4062.2	4001.0	3874.7	3640.4	3312.3	3051.9	3046.7	3074.0	3170.3	2981.6
40°	4456.7	4473.6	4405.9	4299.2	4075.2	3797.9	3471.1	3424.2	3396.9	3510.2	3335.7
42.5°	4865.5	4891.6	4868.1	4761.4	4570.0	4340.8	4015.3	3942.4	3883.8	4025.7	3840.9
45°	5373.3	5404.6	5394.1	5312.1	5163.7	4977.5	4670.2	4585.6	4558.3	4689.8	4469.7
47.5°	5861.5	5895.4	5933.2	5914.9	5809.5	5723.5	5382.4	5334.2	5326.4	5467.0	5125.9
50°	6224.8	6256.1	6400.6	6504.7	6576.3	6558.1	6262.6	6191.0	6179.2	6269.1	5818.6
52.5°	6485.2	6515.1	6714.4	7039.8	7302.9	7446.1	7147.9	7132.3	7068.5	7037.2	6467.0
55°	6687.0	6728.7	6938.3	7430.4	7960.4	8278.0	8091.9	8035.9	7871.8	7692.1	7068.5
57.5°	6727.4	6744.3	7039.8	7703.9	8470.7	8985.0	8985.0	8887.4	8571.0	8322.3	7763.8
60°	6365.4	6417.5	6817.2	7681.7	8689.5	9447.2	9725.8	9658.1	9231.1	8925.1	8433.0
62.5°	5562.1	5620.7	6107.6	7151.8	8470.7	9542.3	10287.0	10276.6	9794.9	9423.8	8987.6
65°	4265.3	4308.3	4732.7	5982.6	7546.3	9176.4	10688.0	10716.7	10240.1	9753.2	9179.0
67.5°	2143.1	2173.0	2631.3	4086.9	5981.3	8123.1	10660.7	10788.3	10375.5	9578.7	8448.6
70°	748.6	778.6	994.7	1753.8	3640.4	6202.7	9738.9	9947.2	9580.0	8176.5	6232.6
72.5°	256.5	270.8	412.7	651.0	1416.6	3676.8	7405.7	7719.5	7062.0	5489.2	3581.8
75°	145.8	154.9	221.3	352.8	593.7	1209.5	4201.5	4394.2	4116.9	2992.0	1473.9
77.5°	99.0	106.8	138.0	200.5	328.1	389.3	1713.4	2157.4	1881.4	976.5	376.3
80°	58.6	63.8	84.6	118.5	168.0	151.0	367.2	488.2	628.9	291.6	113.3
82.5°	27.3	31.2	54.7	78.1	84.6	63.8	108.1	131.5	177.1	143.2	46.9
85°	0.0	0.0	18.2	32.5	31.2	18.2	29.9	32.5	48.2	71.6	18.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9	7.8	14.3	7.8
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: P639323
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0
2.5°	1458.2	1449.1	1459.5	1454.3	1459.5	1458.2	1447.8	1441.3	1441.3	1429.6	1425.7
5°	1476.5	1467.3	1469.9	1458.2	1455.6	1449.1	1436.1	1430.9	1430.9	1419.2	1415.3
7.5°	1516.8	1502.5	1499.9	1476.5	1466.0	1447.8	1424.4	1415.3	1414.0	1402.2	1398.3
10°	1580.6	1563.7	1552.0	1522.0	1492.1	1455.6	1406.1	1364.5	1341.0	1309.8	1307.2
12.5°	1658.7	1637.9	1619.7	1574.1	1524.6	1442.6	1296.8	1144.4	1050.7	976.5	981.7
15°	1746.0	1726.4	1697.8	1628.8	1527.2	1313.7	1009.0	774.7	660.1	598.9	596.3
17.5°	1841.0	1812.4	1765.5	1671.8	1445.2	1003.8	656.2	463.5	403.6	382.8	377.6
20°	1929.5	1894.4	1835.8	1680.9	1208.2	679.6	410.1	359.3	348.9	342.4	342.4
22.5°	2023.3	1979.0	1891.8	1610.6	898.4	434.9	348.9	337.2	329.4	320.3	319.0
25°	2118.3	2061.0	1942.6	1427.0	588.5	342.4	326.8	313.8	299.5	285.1	281.2
27.5°	2199.1	2124.8	1981.6	1153.6	377.6	308.6	298.2	276.0	256.5	240.9	238.3
30°	2295.4	2200.4	1998.6	843.7	296.9	272.1	256.5	233.1	209.6	194.0	188.8
32.5°	2424.3	2320.1	1972.5	549.4	263.0	239.6	214.8	187.5	164.1	147.1	144.5
35°	2624.8	2501.1	1852.7	350.2	238.3	207.0	177.1	148.4	128.9	115.9	113.3
37.5°	2869.6	2755.0	1656.1	263.0	213.5	179.7	144.5	117.2	102.9	93.7	91.1
40°	3232.8	3072.7	1412.7	230.5	188.8	152.3	118.5	96.3	85.9	78.1	75.5
42.5°	3704.2	3447.7	1132.7	209.6	165.4	127.6	96.3	79.4	70.3	65.1	63.8
45°	4254.9	3813.5	837.2	188.8	143.2	105.5	79.4	65.1	58.6	54.7	53.4
47.5°	4818.7	4133.8	578.1	166.7	122.4	87.2	66.4	56.0	50.8	45.6	44.3
50°	5420.2	4404.6	394.5	144.5	104.2	71.6	57.3	50.8	44.3	40.4	39.1
52.5°	5861.5	4504.9	274.7	125.0	88.5	61.2	50.8	45.6	40.4	35.2	33.9
55°	6269.1	4502.3	208.3	105.5	75.5	53.4	45.6	40.4	35.2	31.2	29.9
57.5°	6675.3	4467.1	164.1	89.8	65.1	48.2	40.4	35.2	32.5	27.3	26.0
60°	6938.3	4334.3	127.6	75.5	56.0	41.7	35.2	31.2	27.3	23.4	22.1
62.5°	7077.6	4149.4	97.6	59.9	45.6	36.5	31.2	27.3	23.4	19.5	18.2
65°	6888.8	3821.3	76.8	46.9	35.2	31.2	26.0	22.1	18.2	14.3	13.0
67.5°	6051.6	3222.4	59.9	37.8	27.3	23.4	22.1	18.2	13.0	10.4	9.1
70°	4277.0	2206.9	46.9	28.6	20.8	18.2	16.9	14.3	10.4	7.8	6.5
72.5°	2347.5	1113.2	33.9	20.8	15.6	14.3	13.0	11.7	9.1	6.5	6.5
75°	903.6	306.0	24.7	14.3	10.4	10.4	9.1	9.1	7.8	5.2	5.2
77.5°	235.7	91.1	15.6	9.1	6.5	6.5	6.5	5.2	5.2	3.9	3.9
80°	75.5	29.9	9.1	6.5	5.2	3.9	3.9	2.6	3.9	2.6	2.6
82.5°	24.7	10.4	5.2	5.2	3.9	2.6	2.6	1.3	1.3	0.0	0.0
85°	9.1	5.2	3.9	2.6	2.6	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	5.2	2.6	2.6	2.6	2.6	1.3	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)