

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: P633318

Luminaire Tested: GWS-SA2E-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633318
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-SA2E-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8667.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

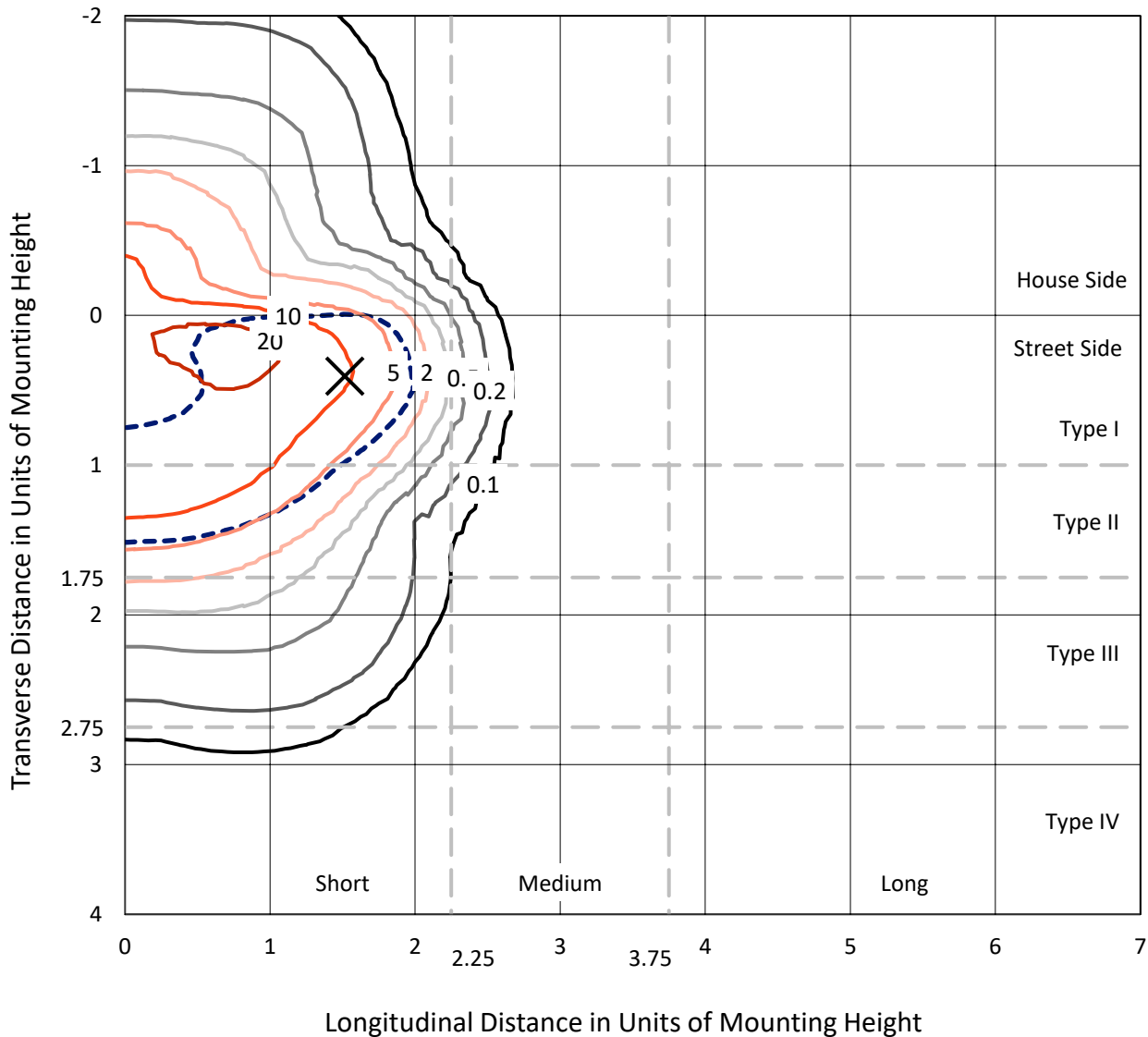
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633318
 CATALOG NUMBER: GWS-SA2E-740-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

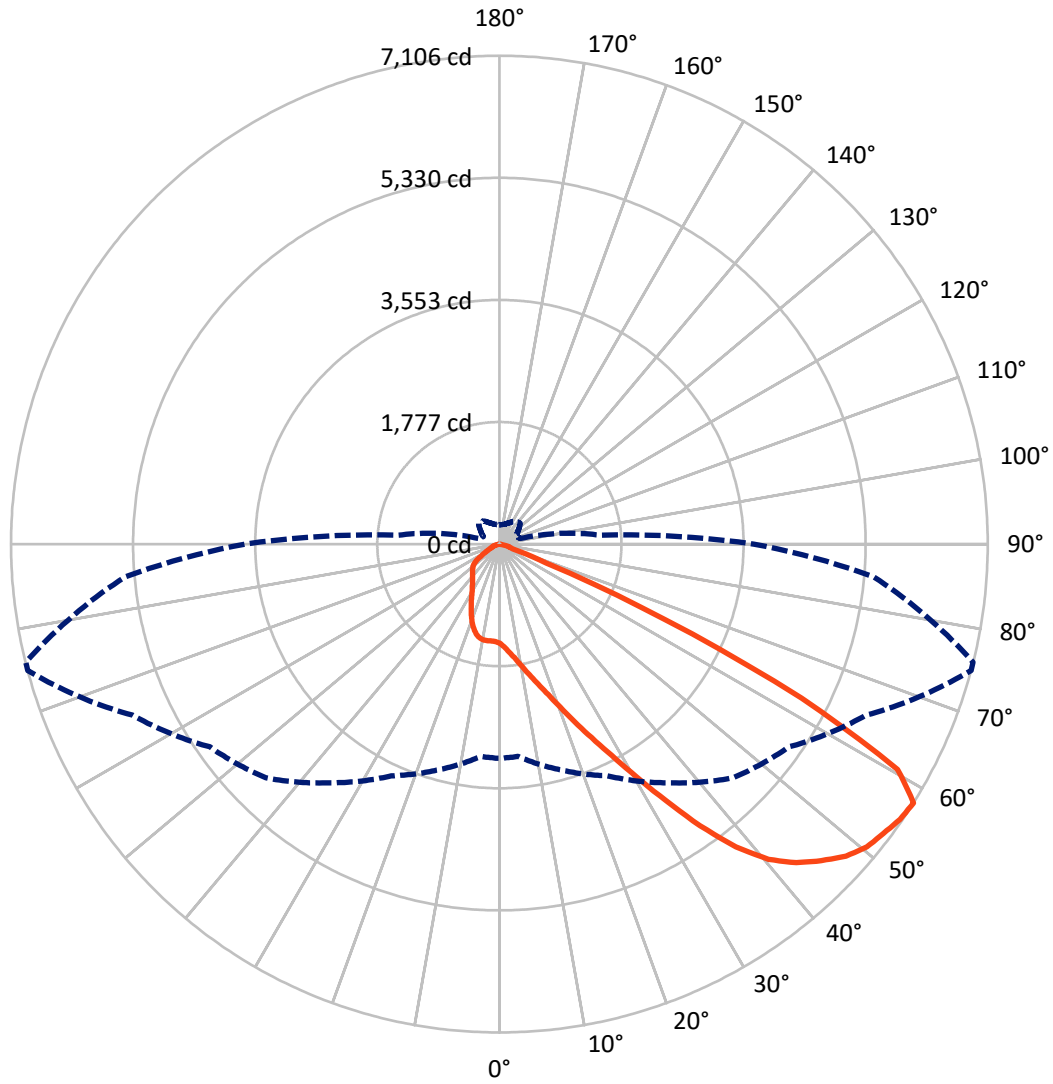
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27 fc
 Type II - Short - N/A

REPORT NUMBER: P633318
CATALOG NUMBER: GWS-SA2E-740-U-T2-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633318

CATALOG NUMBER: GWS-SA2E-740-U-T2-W-GRSBK

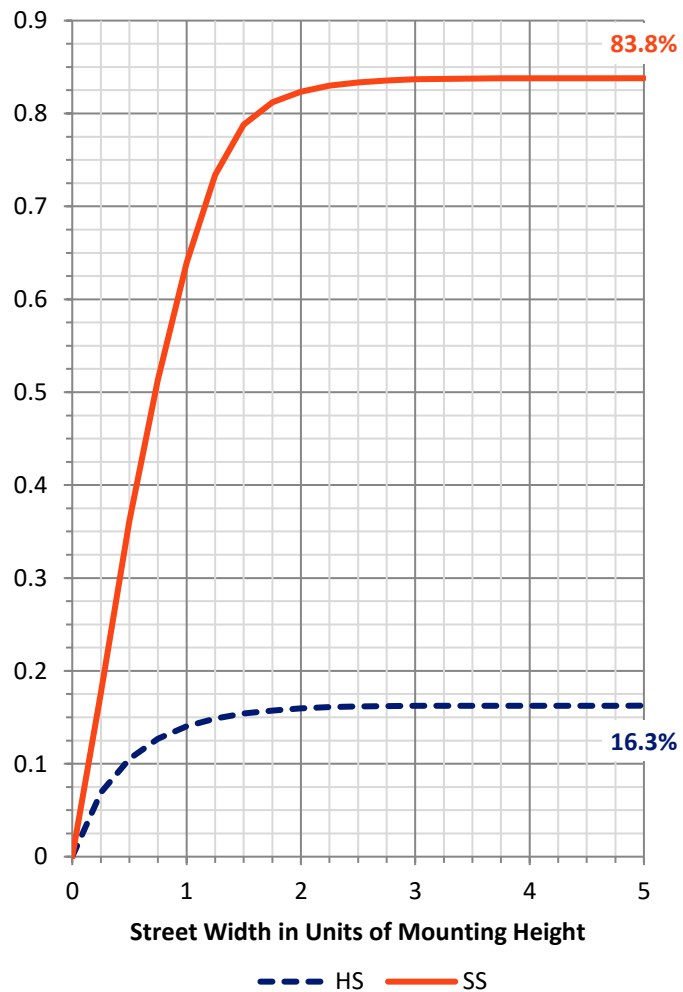
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1415.7	0.0	1415.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7251.3	0.0	7251.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	8667.1	0.0	8667.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.7
10°-20°	477.8	5.5
20°-30°	875.0	10.1
30°-40°	1451.7	16.8
40°-50°	2217.2	25.6
50°-60°	2491.4	28.7
60°-70°	918.9	10.6
70°-80°	87.8	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°	8667.1	100.0
0°-180°	8667.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633318

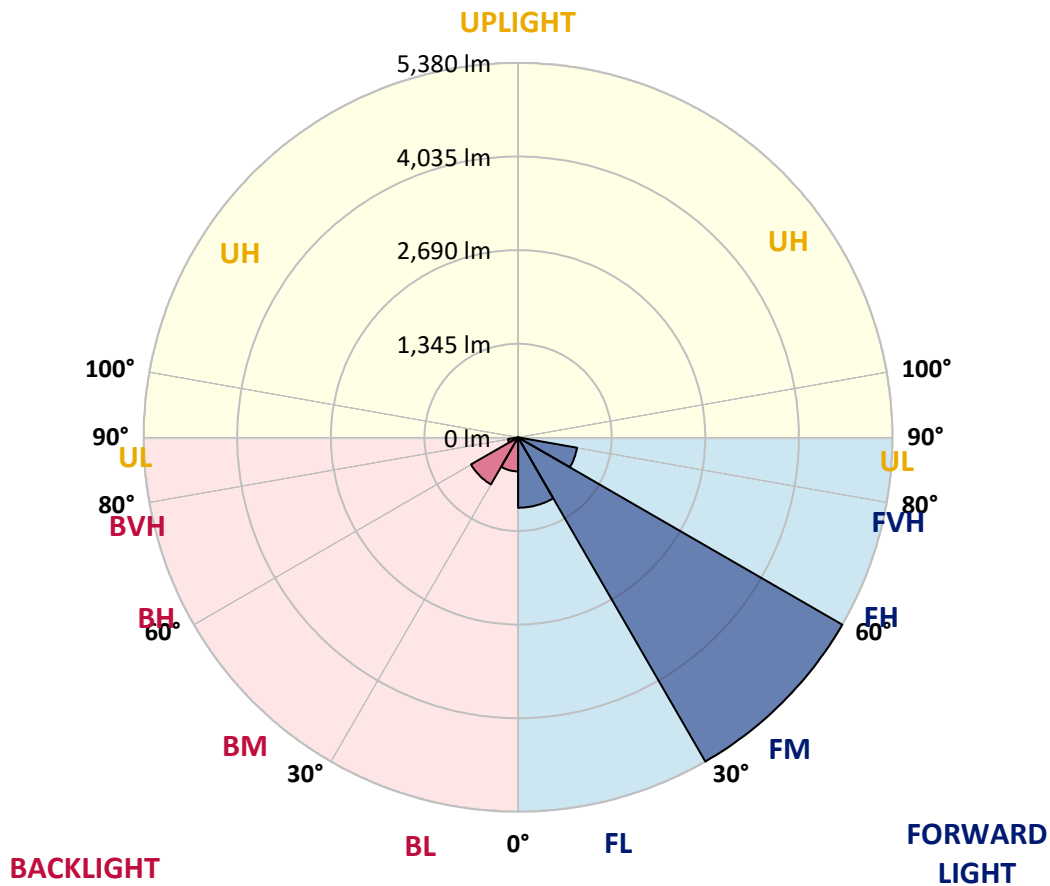
CATALOG NUMBER: GWS-SA2E-740-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.4	11.7			
FM (30°-60°)	5380.1	62.1			
FH (60°-80°)	859.7	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	488.5	5.6	B1/500		
BM (30°-60°)	780.2	9.0	B1/1000		
BH (60°-80°)	147.0	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: B1-U0-G1

Type II Short





REPORT NUMBER: P633318

CATALOG NUMBER: GWS-SA2E-740-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6
2.5°	1615.0	1631.7	1626.5	1616.0	1609.8	1587.8	1574.2	1534.5	1506.2	1503.1	1476.9
5°	1819.0	1815.8	1811.6	1799.1	1788.6	1754.1	1713.3	1646.4	1586.8	1579.4	1524.0
7.5°	1930.9	1933.0	1935.1	1933.0	1925.7	1899.5	1854.5	1776.1	1685.1	1678.8	1590.9
10°	1976.9	1981.1	1991.6	2011.4	2029.2	2027.1	2001.0	1920.4	1808.5	1798.0	1679.9
12.5°	1998.9	2004.1	2020.8	2058.5	2106.6	2144.3	2148.5	2076.3	1952.9	1936.1	1785.5
15°	2029.2	2034.4	2055.4	2104.5	2174.6	2248.9	2297.0	2251.0	2112.9	2095.1	1901.6
17.5°	2042.8	2050.1	2080.5	2145.3	2236.3	2350.3	2459.1	2454.9	2302.2	2288.6	2036.5
20°	2069.0	2074.2	2101.4	2171.5	2281.3	2445.5	2628.6	2694.5	2533.4	2513.5	2199.7
22.5°	2151.6	2153.7	2166.2	2210.2	2312.7	2514.5	2801.1	2973.7	2806.4	2780.2	2382.8
25°	2286.5	2285.5	2290.7	2298.0	2373.3	2584.6	2967.5	3288.6	3119.1	3090.9	2589.9
27.5°	2458.1	2458.1	2470.6	2449.7	2480.0	2671.4	3131.7	3650.5	3483.1	3443.4	2816.8
30°	2659.9	2658.9	2688.2	2654.7	2664.1	2808.5	3308.5	4044.8	3922.4	3873.3	3078.3
32.5°	2934.0	2927.7	2961.2	2915.2	2883.8	3015.6	3523.9	4456.9	4448.6	4373.3	3406.8
35°	3280.2	3269.7	3280.2	3235.2	3178.7	3305.3	3806.3	4868.0	5032.2	4952.7	3798.0
37.5°	3624.3	3657.8	3669.3	3591.9	3545.9	3672.5	4146.3	5236.2	5589.7	5507.1	4204.9
40°	4030.2	4019.7	4059.5	3972.7	3943.4	4083.5	4478.9	5510.3	6031.2	5952.7	4566.8
42.5°	4329.3	4348.2	4397.3	4349.2	4326.2	4458.0	4758.2	5670.3	6337.6	6260.2	4825.1
45°	4688.1	4701.7	4720.5	4680.8	4656.7	4786.4	4960.1	5740.4	6570.9	6487.2	4998.8
47.5°	5076.2	5086.6	5086.6	5005.0	4927.6	4981.0	5095.0	5780.1	6785.3	6704.8	5127.4
50°	5354.4	5359.6	5405.7	5348.1	5179.7	5097.1	5156.7	5818.8	6927.6	6852.2	5169.3
52.5°	5107.5	5101.3	5252.9	5372.2	5417.2	5252.9	5263.4	5875.3	6996.6	6931.7	5202.7
55°	4301.1	4290.6	4504.0	4793.8	5190.2	5400.4	5392.1	5908.8	7073.0	7033.2	5324.1
57.5°	3118.1	3100.3	3397.4	3719.5	4239.4	4809.4	5144.2	5889.9	7106.4	7103.3	5465.3
60°	1874.4	1859.8	2140.1	2479.0	2880.6	3453.8	4009.3	5275.9	6658.7	6665.0	5098.1
62.5°	1153.7	1167.3	1420.4	1593.0	1742.6	1915.2	2236.3	3549.0	4932.9	4973.7	3582.5
65°	776.1	786.6	1020.9	1238.4	1238.4	1012.5	869.2	1696.6	2631.7	2562.7	1694.5
67.5°	520.9	532.4	717.5	971.7	1008.3	706.0	352.5	506.3	733.2	711.3	419.4
70°	306.5	319.0	478.0	666.3	734.3	491.6	235.3	214.4	208.2	201.9	163.2
72.5°	137.0	142.3	243.7	338.9	309.6	207.1	166.3	171.5	162.1	159.0	132.8
75°	41.8	43.9	62.8	73.2	74.3	74.3	100.4	134.9	127.6	128.7	102.5
77.5°	10.5	10.5	16.7	15.7	8.4	7.3	18.8	30.3	31.4	28.2	20.9
80°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P633318
 CATALOG NUMBER: GWS-SA2E-740-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6	1445.6
2.5°	1465.4	1438.2	1420.4	1395.3	1377.6	1358.7	1342.0	1328.4	1321.1	1319.0	1320.0
5°	1498.9	1456.0	1414.2	1366.1	1332.6	1301.2	1276.1	1256.2	1246.8	1243.7	1243.7
7.5°	1550.2	1490.5	1416.3	1341.0	1284.5	1235.3	1206.0	1184.1	1175.7	1173.6	1167.3
10°	1617.1	1535.5	1413.1	1296.0	1216.5	1165.2	1144.3	1138.0	1141.2	1142.2	1141.2
12.5°	1697.6	1582.6	1393.3	1230.1	1144.3	1112.9	1115.0	1131.8	1150.6	1160.0	1162.1
15°	1783.4	1625.5	1348.3	1151.6	1082.6	1081.5	1111.9	1150.6	1187.2	1202.9	1207.1
17.5°	1879.6	1660.0	1279.2	1068.0	1029.2	1059.6	1114.0	1173.6	1222.8	1248.9	1254.1
20°	1985.3	1688.2	1191.4	989.5	982.2	1036.6	1111.9	1185.1	1245.8	1275.1	1280.3
22.5°	2095.1	1708.1	1089.9	917.3	939.3	1010.4	1092.0	1163.1	1220.7	1254.1	1258.3
25°	2220.6	1710.2	986.4	856.7	899.5	974.9	1043.9	1102.5	1150.6	1179.9	1183.0
27.5°	2330.5	1685.1	894.3	807.5	862.9	930.9	977.0	1009.4	1042.8	1059.6	1060.6
30°	2457.0	1641.2	807.5	767.8	825.3	876.5	899.5	906.9	910.0	913.1	909.0
32.5°	2607.6	1587.8	742.6	729.1	782.4	816.9	823.2	808.5	790.8	765.7	759.4
35°	2792.8	1539.7	689.3	691.4	735.3	756.2	751.0	719.6	685.1	654.8	649.6
37.5°	2993.6	1498.9	648.5	654.8	684.1	698.7	683.0	648.5	632.8	606.7	607.7
40°	3171.4	1465.4	611.9	618.2	631.8	645.4	620.3	597.3	626.5	624.5	626.5
42.5°	3298.0	1437.2	580.5	577.4	586.8	596.2	577.4	565.9	615.0	601.4	608.8
45°	3372.3	1411.0	554.4	535.5	550.2	566.9	554.4	539.7	556.5	493.7	488.5
47.5°	3422.5	1396.4	531.4	494.8	520.9	550.2	524.0	488.5	464.4	410.0	405.8
50°	3427.7	1389.1	504.2	452.9	486.4	517.8	487.4	438.3	403.8	379.7	376.6
52.5°	3454.9	1403.7	466.5	399.6	436.2	486.4	465.5	416.3	369.2	348.3	344.1
55°	3576.2	1465.4	403.8	326.3	379.7	462.3	447.7	371.3	326.3	313.8	310.7
57.5°	3701.7	1478.0	318.0	258.4	330.5	427.8	409.0	342.0	298.1	283.5	280.3
60°	3384.8	1217.5	238.5	213.4	291.8	395.4	378.6	324.3	273.0	255.2	252.1
62.5°	2223.8	657.9	189.3	181.0	245.8	334.7	345.2	292.9	243.7	224.9	223.8
65°	1025.1	305.4	145.4	143.3	192.5	266.7	297.1	256.3	206.1	189.3	189.3
67.5°	279.3	151.7	114.0	105.6	130.7	178.9	216.5	191.4	146.4	126.6	125.5
70°	139.1	122.4	102.5	91.0	94.1	110.9	127.6	106.7	74.3	60.7	59.6
72.5°	114.0	100.4	86.8	77.4	71.1	68.0	65.9	53.3	34.5	26.1	25.1
75°	84.7	72.2	61.7	50.2	42.9	39.7	35.6	26.1	14.6	8.4	7.3
77.5°	18.8	17.8	16.7	12.6	11.5	9.4	7.3	5.2	2.1	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	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)