

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: P630352

Luminaire Tested: GWS-SA1D-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630352  
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-SA1D-740-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

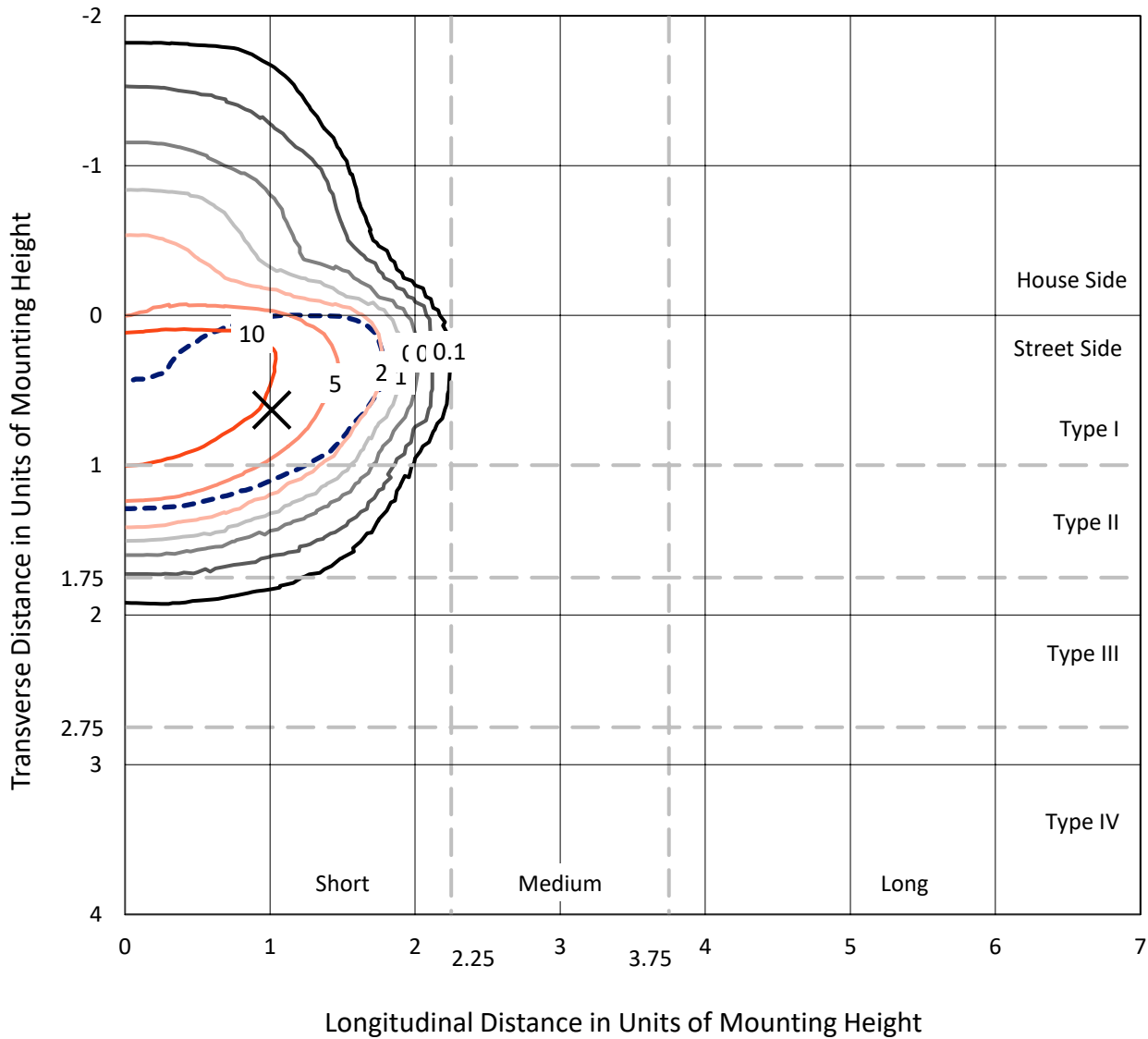
Lumens per Lamp: N/A  
Luminaire Lumens: 4064.8 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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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 CATALOG NUMBER: GWS-SA1D-740-U-T2R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

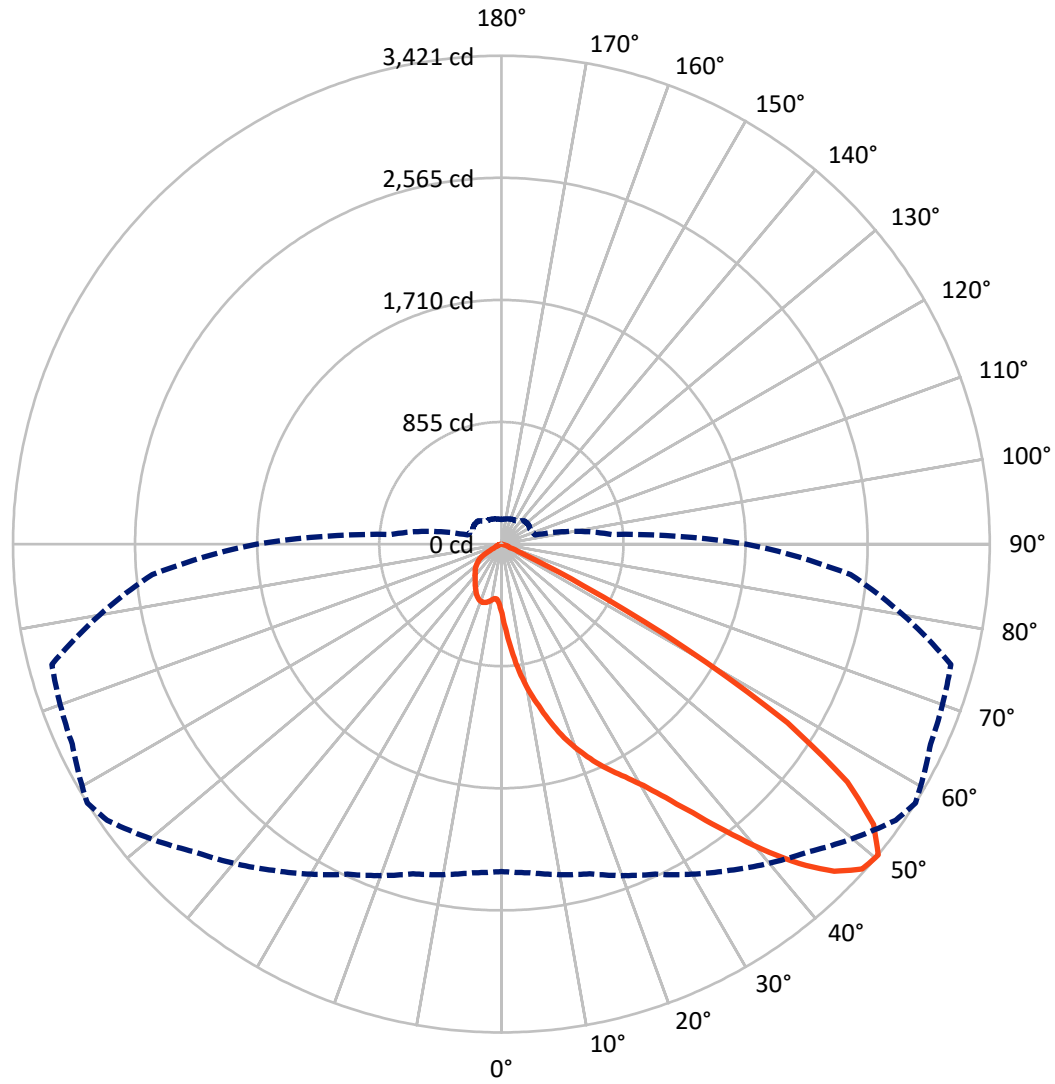
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P630352  
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### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GWS-SA1D-740-U-T2R-W-GRSBK

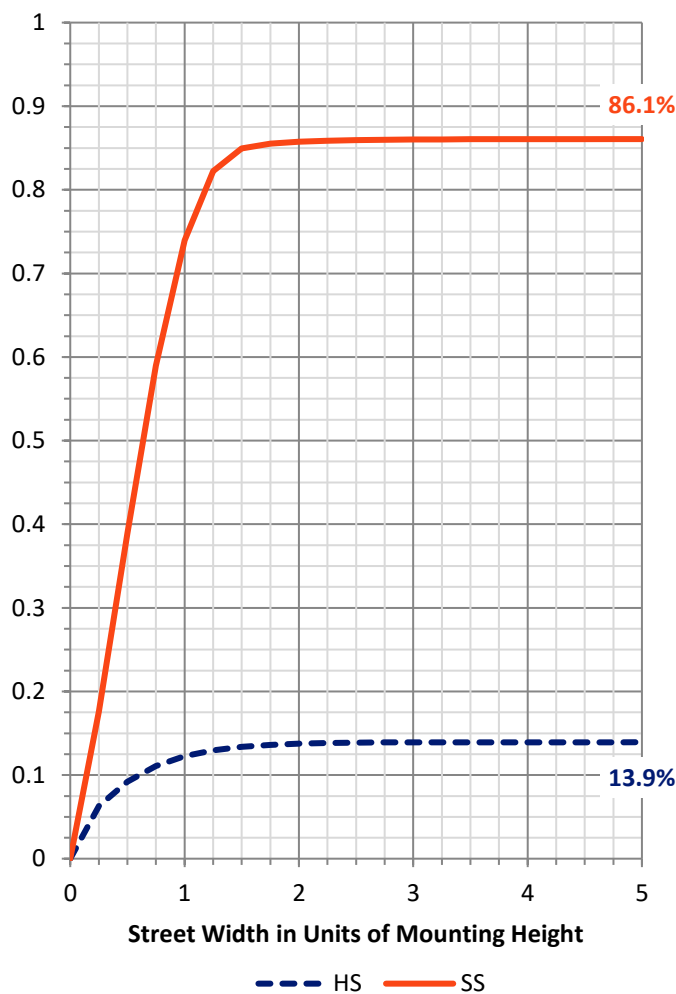
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	569.3	0.0	569.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	3495.5	0.0	3495.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	4064.8	0.0	4064.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	1.5
10°-20°	238.1	5.9
20°-30°	481.8	11.9
30°-40°	852.4	21.0
40°-50°	1242.7	30.6
50°-60°	996.0	24.5
60°-70°	179.4	4.4
70°-80°	14.1	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°	4064.8	100.0
0°-180°	4064.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P630352

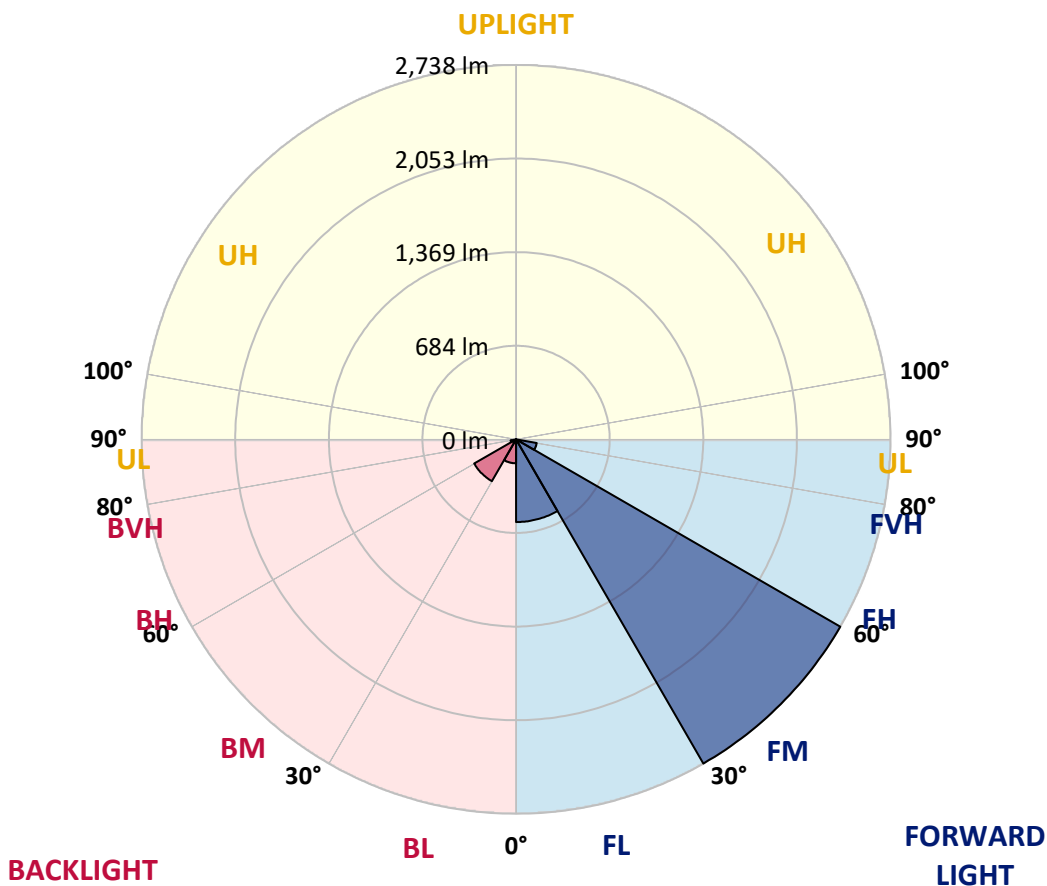
CATALOG NUMBER: GWS-SA1D-740-U-T2R-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.8	14.9			
FM (30°-60°)	2737.5	67.3			
FH (60°-80°)	153.1	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	175.3	4.3	B1/500		
BM (30°-60°)	353.6	8.7	B1/1000		
BH (60°-80°)	40.5	1.0	B0/110		G0/110
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-G0**

Type II Short





REPORT NUMBER: P630352

CATALOG NUMBER: GWS-SA1D-740-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	718.5	707.2	700.7	695.5	672.4	635.9	612.0	599.4	578.6	543.3	512.9
5°	937.6	929.3	914.1	903.7	874.1	822.4	768.9	747.6	700.3	620.7	549.4
7.5°	1082.8	1076.7	1071.0	1057.1	1029.3	982.4	923.3	901.1	828.1	715.0	598.1
10°	1194.5	1189.7	1183.2	1182.8	1161.0	1118.9	1061.0	1038.0	958.9	817.6	655.5
12.5°	1292.7	1288.8	1287.5	1299.7	1285.8	1254.5	1191.9	1163.2	1079.3	922.4	719.0
15°	1360.1	1359.2	1364.9	1388.8	1396.6	1382.3	1329.7	1298.8	1202.3	1027.6	788.9
17.5°	1391.0	1393.6	1404.4	1445.7	1480.5	1492.7	1452.3	1426.2	1324.5	1134.1	863.7
20°	1443.6	1442.7	1449.2	1488.3	1530.9	1574.4	1562.2	1540.1	1447.9	1246.7	946.7
22.5°	1591.8	1579.2	1565.3	1571.4	1586.6	1637.4	1660.0	1648.7	1575.3	1362.3	1032.4
25°	1819.6	1806.5	1761.7	1718.3	1689.6	1712.6	1743.5	1749.1	1701.8	1480.9	1121.9
27.5°	2061.2	2049.5	1999.1	1933.9	1851.7	1811.7	1834.8	1846.1	1826.1	1622.2	1217.1
30°	2287.7	2272.1	2216.8	2136.0	2040.8	1979.5	1953.4	1961.3	1973.0	1789.6	1328.8
32.5°	2484.2	2472.4	2406.4	2321.2	2229.5	2165.6	2104.7	2117.7	2146.4	1994.3	1471.8
35°	2650.7	2644.6	2574.6	2489.8	2392.9	2360.3	2308.1	2310.7	2339.4	2241.6	1646.1
37.5°	2795.4	2785.0	2721.5	2642.8	2565.9	2560.7	2546.3	2547.6	2562.4	2529.8	1846.5
40°	2886.7	2877.1	2831.9	2783.2	2728.5	2729.3	2803.7	2809.3	2792.4	2812.8	2058.2
42.5°	2921.0	2914.1	2889.7	2890.2	2884.5	2910.2	3049.7	3060.1	2999.3	3034.9	2239.0
45°	2861.5	2858.4	2860.2	2922.8	2990.6	3069.7	3250.9	3269.2	3183.1	3182.3	2380.3
47.5°	2669.3	2663.3	2714.1	2820.6	2977.5	3131.4	3372.7	3400.9	3311.8	3266.6	2469.0
50°	2292.9	2310.3	2390.7	2550.7	2789.3	3046.6	3371.3	3420.5	3316.6	3259.2	2454.2
52.5°	1660.9	1657.4	1833.5	2053.4	2343.8	2775.4	3192.3	3264.0	3200.5	3186.6	2421.1
55°	903.7	935.4	1054.1	1345.3	1707.8	2262.1	2783.2	2939.7	3013.2	3160.1	2480.7
57.5°	332.1	346.0	420.3	626.4	904.1	1406.6	2126.0	2362.0	2588.9	3086.2	2470.7
60°	133.9	136.5	166.0	230.4	379.9	715.9	1275.3	1484.9	1698.7	2362.5	1896.1
62.5°	97.4	100.8	112.6	134.7	192.1	313.0	549.9	639.4	699.0	1170.1	934.1
65°	78.7	81.3	90.8	100.8	126.9	168.2	177.3	170.8	170.0	302.5	214.3
67.5°	65.2	67.8	74.8	81.7	91.3	83.9	60.9	63.9	52.2	51.7	42.2
70°	47.8	50.9	57.8	65.2	54.8	22.6	35.2	52.2	39.6	33.0	32.2
72.5°	36.1	38.3	44.8	42.6	16.1	8.7	23.5	37.8	30.4	24.3	23.9
75°	26.9	28.3	22.6	7.0	1.7	2.2	8.7	15.6	17.0	13.9	13.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3	1.7	2.2	2.6
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: P630352

CATALOG NUMBER: GWS-SA1D-740-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	495.5	477.3	451.2	429.5	412.9	396.9	384.7	372.5	372.1	366.0	364.7
5°	516.4	483.4	435.5	401.2	380.3	367.7	359.0	354.7	352.5	350.3	349.5
7.5°	546.4	499.0	432.9	396.4	379.0	370.8	364.7	362.1	360.8	359.0	358.6
10°	583.3	521.6	442.5	405.6	390.3	382.5	376.0	372.1	369.9	366.9	366.0
12.5°	627.7	549.4	457.7	420.8	404.7	394.3	385.6	379.9	376.9	373.0	372.1
15°	675.5	579.4	474.7	434.7	415.6	402.1	391.2	382.5	376.9	372.1	370.8
17.5°	725.0	609.9	489.9	444.2	420.8	404.7	389.0	377.3	370.3	364.3	362.5
20°	780.7	641.1	499.9	446.0	419.0	397.7	379.5	364.7	357.7	349.5	347.7
22.5°	838.9	670.3	504.2	442.1	409.5	384.7	365.1	349.9	339.9	331.2	328.6
25°	895.4	696.4	502.1	431.2	395.1	366.4	346.4	330.8	319.9	311.2	309.1
27.5°	955.4	718.1	494.2	415.1	375.6	346.4	327.3	313.8	303.8	294.3	292.1
30°	1022.8	738.1	481.6	395.6	352.5	326.0	311.2	302.1	291.2	281.2	278.2
32.5°	1104.1	755.9	463.4	372.1	332.1	308.2	299.9	293.0	280.4	269.9	267.8
35°	1197.1	770.7	440.3	347.7	312.1	296.9	295.1	286.0	269.5	257.3	254.7
37.5°	1304.9	785.0	412.9	323.8	297.3	291.7	292.1	276.5	256.5	241.7	239.9
40°	1421.0	799.4	382.5	303.0	283.8	288.6	284.7	262.5	229.9	215.6	213.9
42.5°	1541.8	815.0	351.7	283.4	272.5	276.9	271.2	234.7	211.3	203.9	203.0
45°	1650.9	833.7	318.2	263.8	261.2	259.9	250.4	212.6	202.6	197.3	196.9
47.5°	1729.6	830.7	282.5	245.2	249.1	244.7	215.6	202.1	193.9	186.9	185.2
50°	1715.2	777.6	245.6	224.3	233.4	229.5	193.9	190.0	182.6	175.2	172.6
52.5°	1678.7	705.5	213.4	202.1	216.5	207.3	179.1	175.2	168.7	159.1	156.0
55°	1698.3	637.7	188.2	184.3	199.1	171.7	162.6	156.5	149.5	139.1	137.8
57.5°	1635.3	520.3	151.3	153.9	176.0	146.5	142.6	133.0	121.3	114.3	113.5
60°	1131.9	279.5	94.8	97.8	127.4	123.0	127.8	119.1	104.8	98.2	96.9
62.5°	519.9	112.1	51.7	49.6	66.9	83.5	109.5	108.7	90.8	80.4	79.5
65°	126.1	51.3	36.9	34.8	37.8	50.0	71.3	85.6	73.5	61.3	60.0
67.5°	40.9	41.7	33.9	31.7	33.5	37.4	42.6	47.4	46.9	43.0	42.2
70°	32.6	37.8	31.3	28.7	28.7	30.0	28.7	23.0	20.0	21.7	22.6
72.5°	24.3	28.7	24.8	22.2	21.3	20.9	17.8	13.0	9.1	8.3	7.8
75°	14.3	16.1	15.2	13.0	12.2	10.9	8.7	5.7	3.0	2.2	1.3
77.5°	2.6	3.0	3.5	2.6	2.2	1.7	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.4	0.4	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)