

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: P632057

Luminaire Tested: GWS-SA2B-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632057  
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-SA2B-830-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

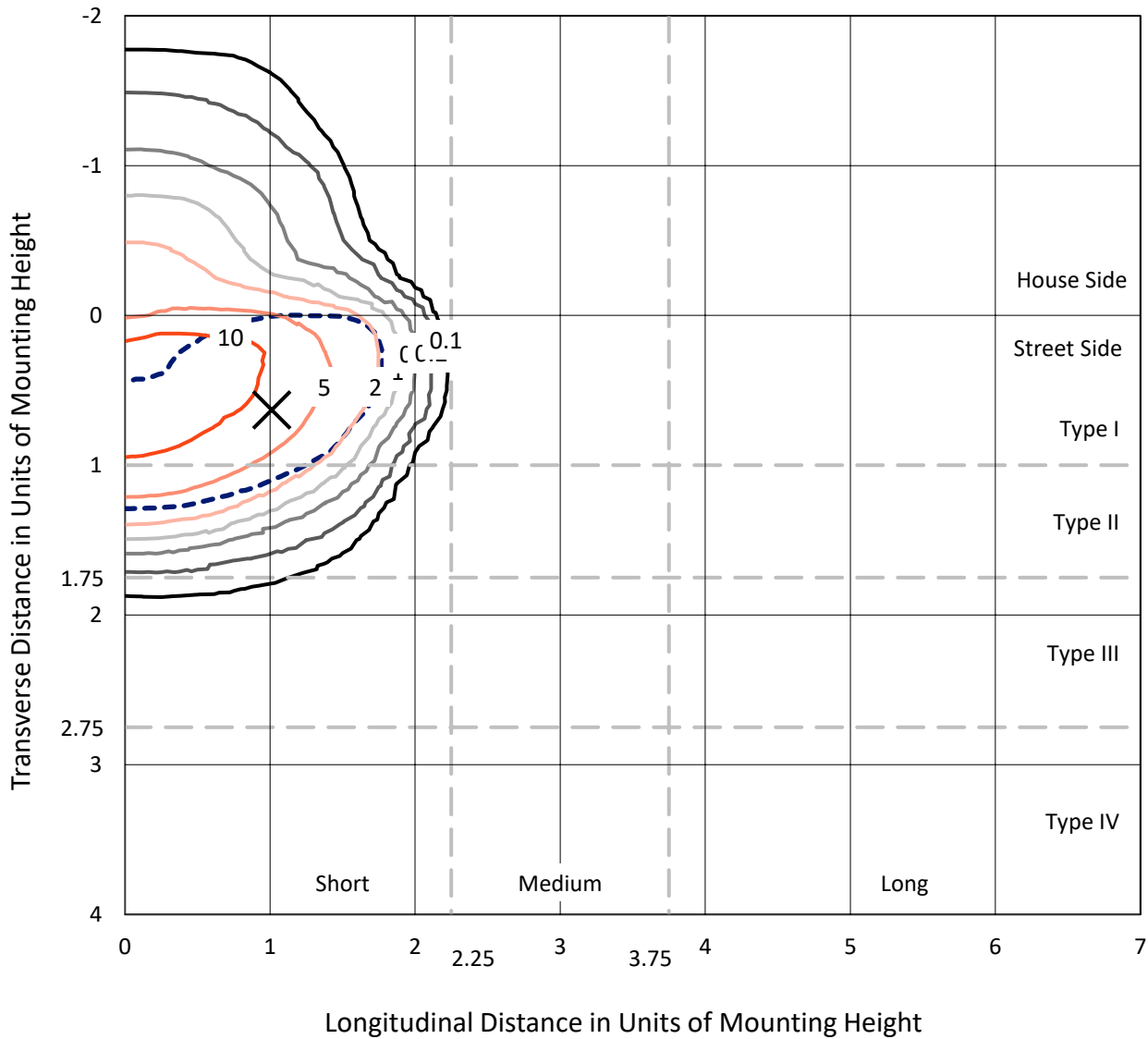
Lumens per Lamp: N/A  
Luminaire Lumens: 3675 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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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### Iso-Footcandle Lines of Horizontal Illumination

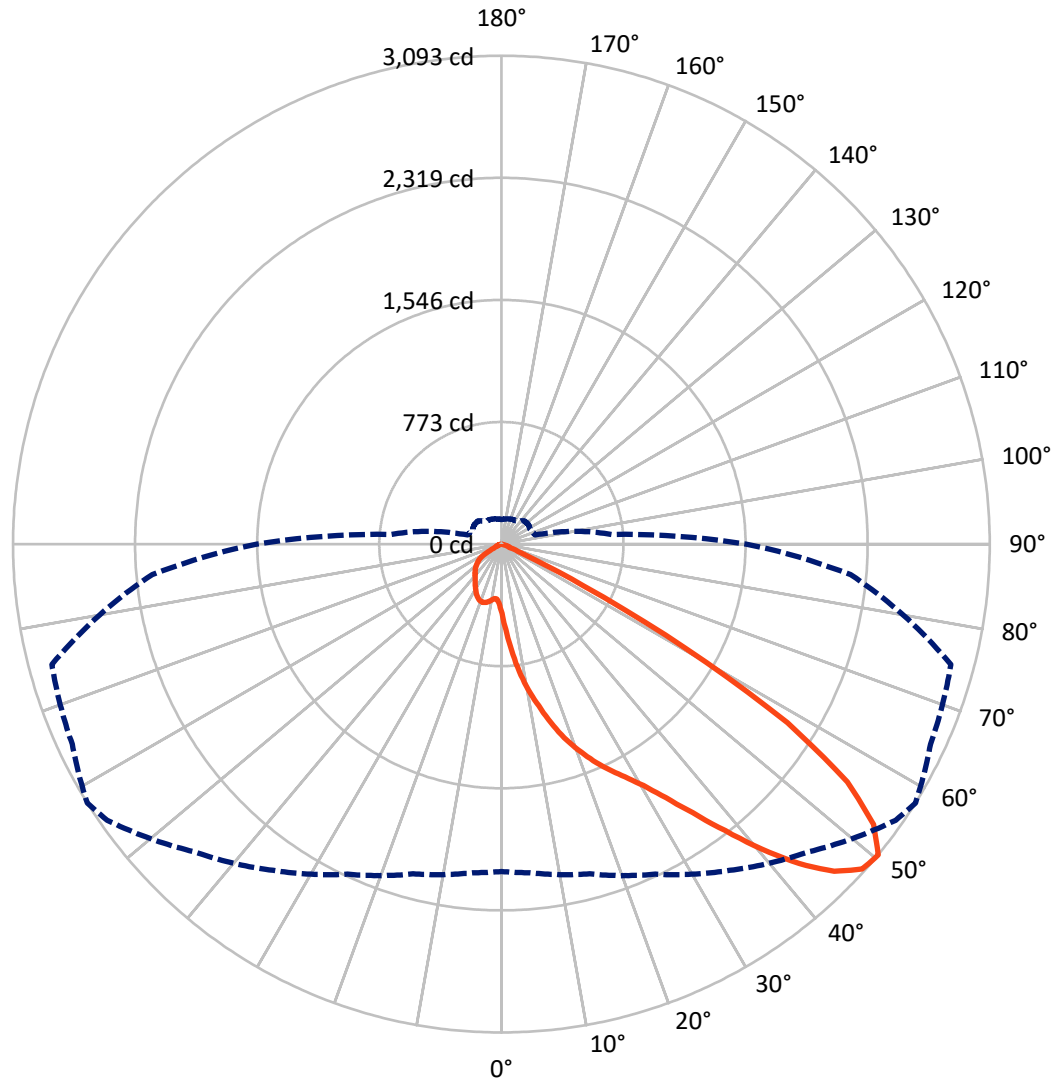
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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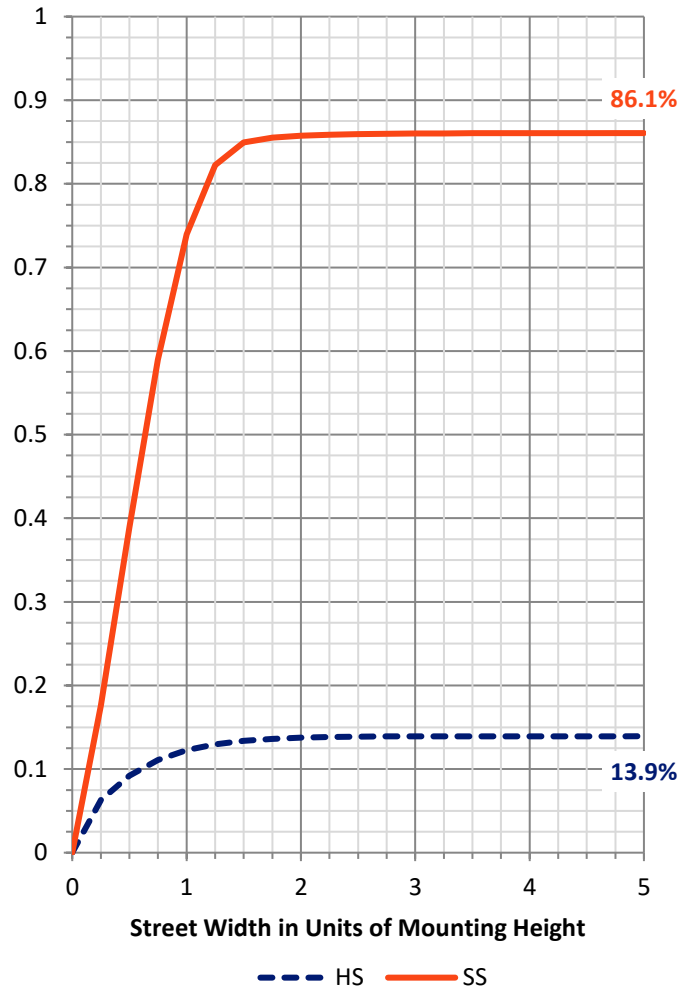
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	514.7	0.0	514.7
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	3160.3	0.0	3160.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	3675.0	0.0	3675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	1.5
10°-20°	215.3	5.9
20°-30°	435.6	11.9
30°-40°	770.7	21.0
40°-50°	1123.5	30.6
50°-60°	900.5	24.5
60°-70°	162.2	4.4
70°-80°	12.8	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°	3675.0	100.0
0°-180°	3675.0	100.0

**Coefficient of Utilization**



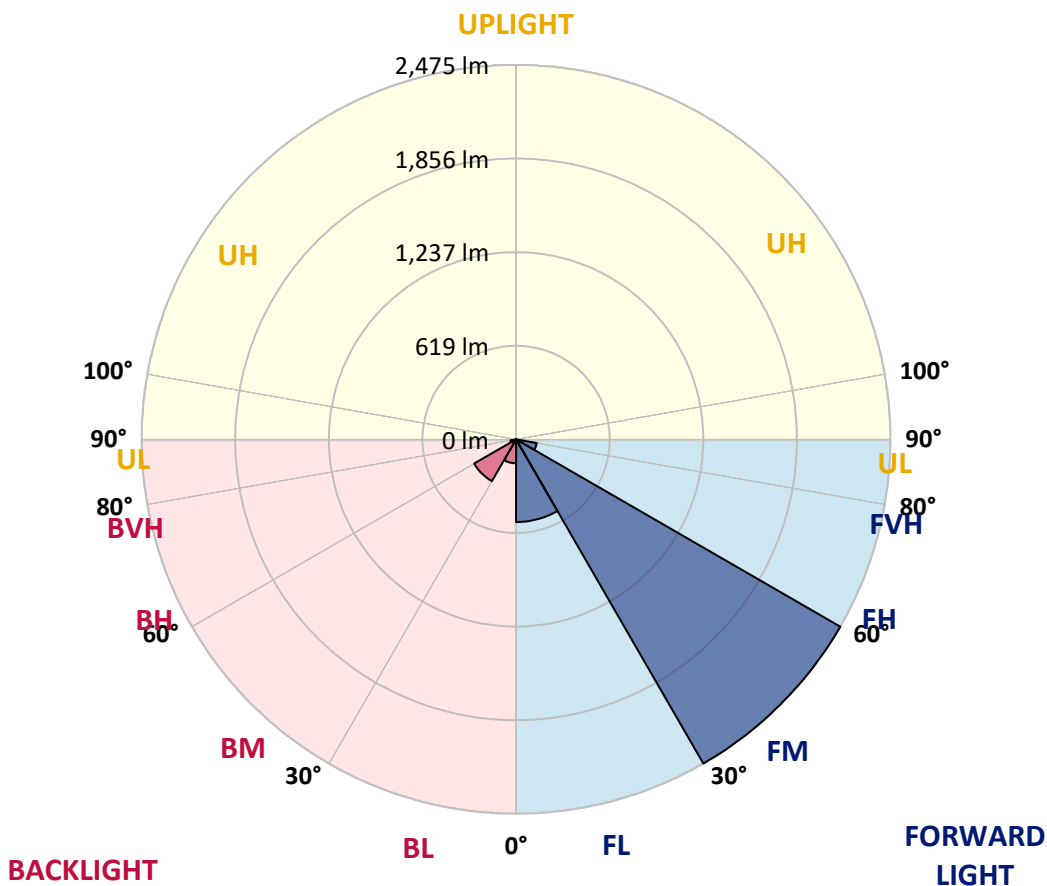
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.8	14.9			
FM (30°-60°)	2475.0	67.3			
FH (60°-80°)	138.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	158.5	4.3	B1/500		
BM (30°-60°)	319.7	8.7	B1/1000		
BH (60°-80°)	36.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0
2.5°	649.6	639.4	633.5	628.8	608.0	574.9	553.3	541.9	523.1	491.2	463.7
5°	847.7	840.2	826.5	817.0	790.3	743.5	695.2	675.9	633.1	561.2	496.7
7.5°	978.9	973.4	968.3	955.8	930.6	888.2	834.7	814.7	748.7	646.5	540.8
10°	1079.9	1075.6	1069.7	1069.3	1049.7	1011.6	959.3	938.5	866.9	739.2	592.6
12.5°	1168.8	1165.2	1164.0	1175.0	1162.5	1134.2	1077.6	1051.6	975.8	833.9	650.0
15°	1229.7	1228.9	1234.0	1255.6	1262.7	1249.7	1202.2	1174.3	1087.0	929.0	713.3
17.5°	1257.6	1259.9	1269.8	1307.1	1338.5	1349.5	1313.0	1289.4	1197.4	1025.3	780.9
20°	1305.1	1304.3	1310.2	1345.6	1384.1	1423.4	1412.4	1392.4	1309.1	1127.1	855.9
22.5°	1439.1	1427.7	1415.2	1420.7	1434.4	1480.4	1500.8	1490.6	1424.2	1231.6	933.4
25°	1645.1	1633.3	1592.8	1553.5	1527.6	1548.4	1576.3	1581.4	1538.6	1338.9	1014.3
27.5°	1863.6	1853.0	1807.4	1748.4	1674.1	1638.0	1658.8	1669.0	1651.0	1466.6	1100.4
30°	2068.3	2054.2	2004.3	1931.2	1845.1	1789.7	1766.1	1773.2	1783.8	1617.9	1201.4
32.5°	2246.0	2235.3	2175.6	2098.6	2015.7	1957.9	1902.9	1914.7	1940.6	1803.0	1330.7
35°	2396.5	2391.0	2327.7	2251.1	2163.4	2133.9	2086.8	2089.1	2115.1	2026.7	1488.3
37.5°	2527.3	2517.9	2460.5	2389.4	2319.8	2315.1	2302.1	2303.3	2316.7	2287.2	1669.4
40°	2609.9	2601.2	2560.3	2516.3	2466.8	2467.6	2534.8	2539.9	2524.6	2543.1	1860.8
42.5°	2640.9	2634.6	2612.6	2613.0	2607.9	2631.1	2757.2	2766.7	2711.6	2743.9	2024.3
45°	2587.1	2584.3	2585.9	2642.5	2703.8	2775.3	2939.2	2955.7	2877.9	2877.1	2152.0
47.5°	2413.4	2407.9	2453.8	2550.1	2692.0	2831.1	3049.2	3074.8	2994.2	2953.3	2232.2
50°	2073.0	2088.8	2161.5	2306.1	2521.8	2754.5	3048.0	3092.5	2998.5	2946.7	2218.8
52.5°	1501.6	1498.5	1657.6	1856.5	2119.0	2509.3	2886.1	2951.0	2893.6	2881.0	2189.0
55°	817.0	845.7	953.0	1216.3	1544.1	2045.1	2516.3	2657.8	2724.2	2857.1	2242.8
57.5°	300.2	312.8	380.0	566.3	817.4	1271.7	1922.1	2135.5	2340.7	2790.2	2233.8
60°	121.0	123.4	150.1	208.3	343.5	647.3	1153.0	1342.5	1535.8	2135.9	1714.2
62.5°	88.0	91.2	101.8	121.8	173.7	283.0	497.1	578.1	631.9	1057.9	844.5
65°	71.1	73.5	82.1	91.2	114.8	152.1	160.3	154.4	153.7	273.5	193.7
67.5°	58.9	61.3	67.6	73.9	82.5	75.8	55.0	57.8	47.2	46.8	38.1
70°	43.2	46.0	52.3	58.9	49.5	20.4	31.8	47.2	35.8	29.9	29.1
72.5°	32.6	34.6	40.5	38.5	14.5	7.9	21.2	34.2	27.5	22.0	21.6
75°	24.4	25.5	20.4	6.3	1.6	2.0	7.9	14.1	15.3	12.6	12.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.2	1.6	2.0	2.4
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0	439.0
2.5°	448.0	431.5	407.9	388.3	373.3	358.8	347.8	336.8	336.4	330.9	329.7
5°	466.9	437.0	393.8	362.7	343.9	332.5	324.6	320.7	318.7	316.8	316.0
7.5°	494.0	451.2	391.4	358.4	342.7	335.2	329.7	327.4	326.2	324.6	324.2
10°	527.4	471.6	400.1	366.7	352.9	345.8	339.9	336.4	334.4	331.7	330.9
12.5°	567.5	496.7	413.8	380.4	365.9	356.4	348.6	343.5	340.7	337.2	336.4
15°	610.7	523.9	429.1	393.0	375.7	363.5	353.7	345.8	340.7	336.4	335.2
17.5°	655.5	551.4	442.9	401.6	380.4	365.9	351.7	341.1	334.8	329.3	327.8
20°	705.8	579.7	451.9	403.2	378.8	359.6	343.1	329.7	323.4	316.0	314.4
22.5°	758.5	606.0	455.9	399.7	370.2	347.8	330.1	316.4	307.3	299.5	297.1
25°	809.6	629.6	453.9	389.8	357.2	331.3	313.2	299.1	289.2	281.4	279.4
27.5°	863.8	649.2	446.8	375.3	339.5	313.2	295.9	283.7	274.7	266.1	264.1
30°	924.7	667.3	435.4	357.6	318.7	294.7	281.4	273.1	263.3	254.3	251.5
32.5°	998.2	683.4	418.9	336.4	300.2	278.6	271.2	264.9	253.5	244.0	242.1
35°	1082.3	696.8	398.1	314.4	282.2	268.4	266.8	258.6	243.7	232.7	230.3
37.5°	1179.8	709.7	373.3	292.8	268.8	263.7	264.1	249.9	231.9	218.5	216.9
40°	1284.7	722.7	345.8	273.9	256.6	260.9	257.4	237.4	207.9	194.9	193.4
42.5°	1393.9	736.9	317.9	256.2	246.4	250.3	245.2	212.2	191.0	184.3	183.5
45°	1492.6	753.8	287.7	238.5	236.2	235.0	226.4	192.2	183.1	178.4	178.0
47.5°	1563.7	751.0	255.4	221.6	225.2	221.3	194.9	182.7	175.3	169.0	167.4
50°	1550.7	703.1	222.0	202.8	211.0	207.5	175.3	171.7	165.1	158.4	156.0
52.5°	1517.7	637.8	193.0	182.7	195.7	187.5	161.9	158.4	152.5	143.8	141.1
55°	1535.4	576.5	170.2	166.6	180.0	155.2	147.0	141.5	135.2	125.8	124.6
57.5°	1478.4	470.4	136.8	139.1	159.2	132.4	128.9	120.3	109.6	103.4	102.6
60°	1023.4	252.7	85.7	88.4	115.1	111.2	115.5	107.7	94.7	88.8	87.6
62.5°	470.0	101.4	46.8	44.8	60.5	75.5	99.0	98.2	82.1	72.7	71.9
65°	114.0	46.4	33.4	31.4	34.2	45.2	64.5	77.4	66.4	55.4	54.2
67.5°	36.9	37.7	30.7	28.7	30.3	33.8	38.5	42.8	42.4	38.9	38.1
70°	29.5	34.2	28.3	25.9	25.9	27.1	25.9	20.8	18.1	19.6	20.4
72.5°	22.0	25.9	22.4	20.0	19.3	18.9	16.1	11.8	8.3	7.5	7.1
75°	13.0	14.5	13.8	11.8	11.0	9.8	7.9	5.1	2.8	2.0	1.2
77.5°	2.4	2.8	3.1	2.4	2.0	1.6	1.2	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)