

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: P639482

Luminaire Tested: GWS-SA5B-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639482  
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-SA5B-830-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

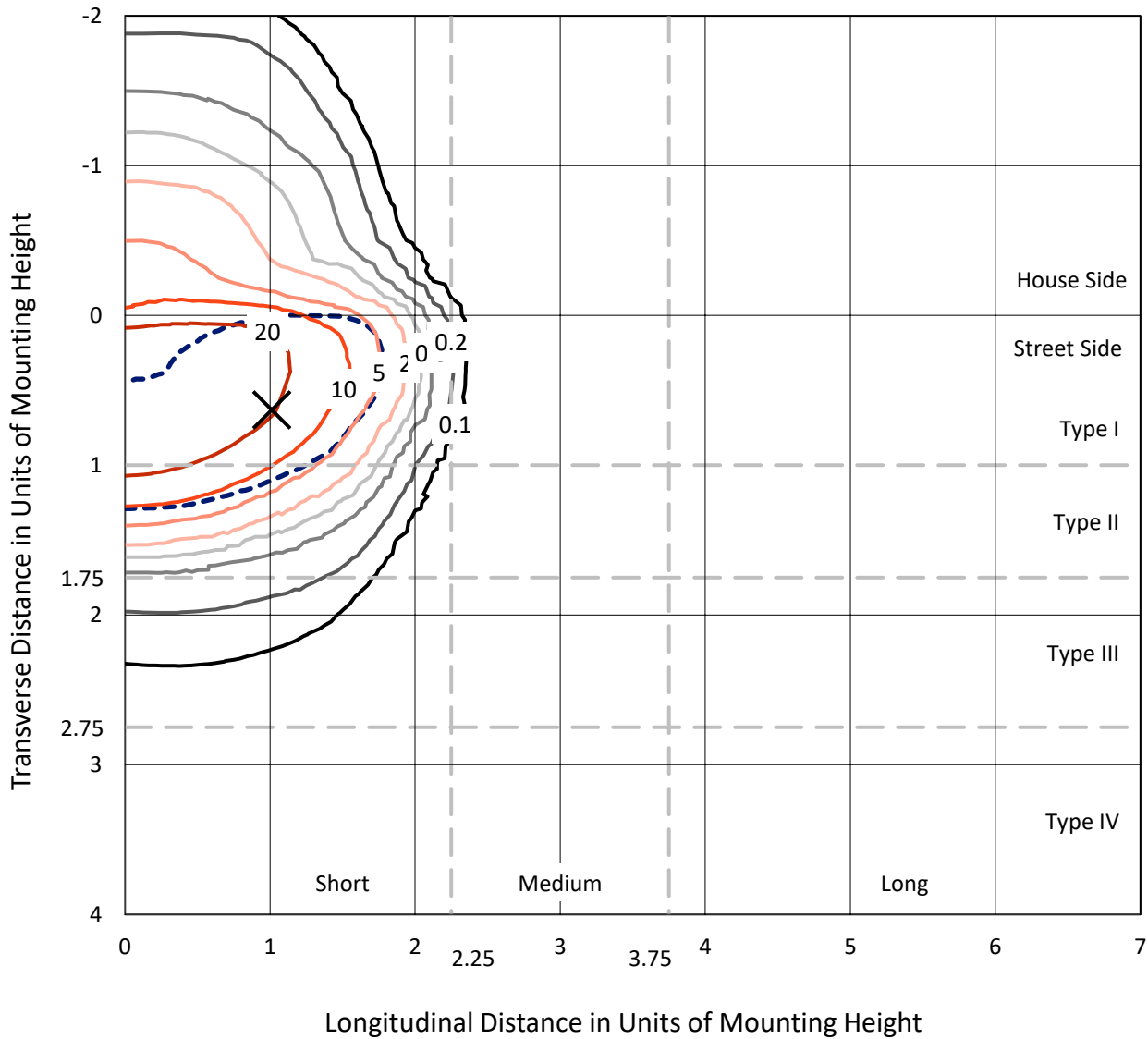
Lumens per Lamp: N/A  
Luminaire Lumens: 9455.2 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

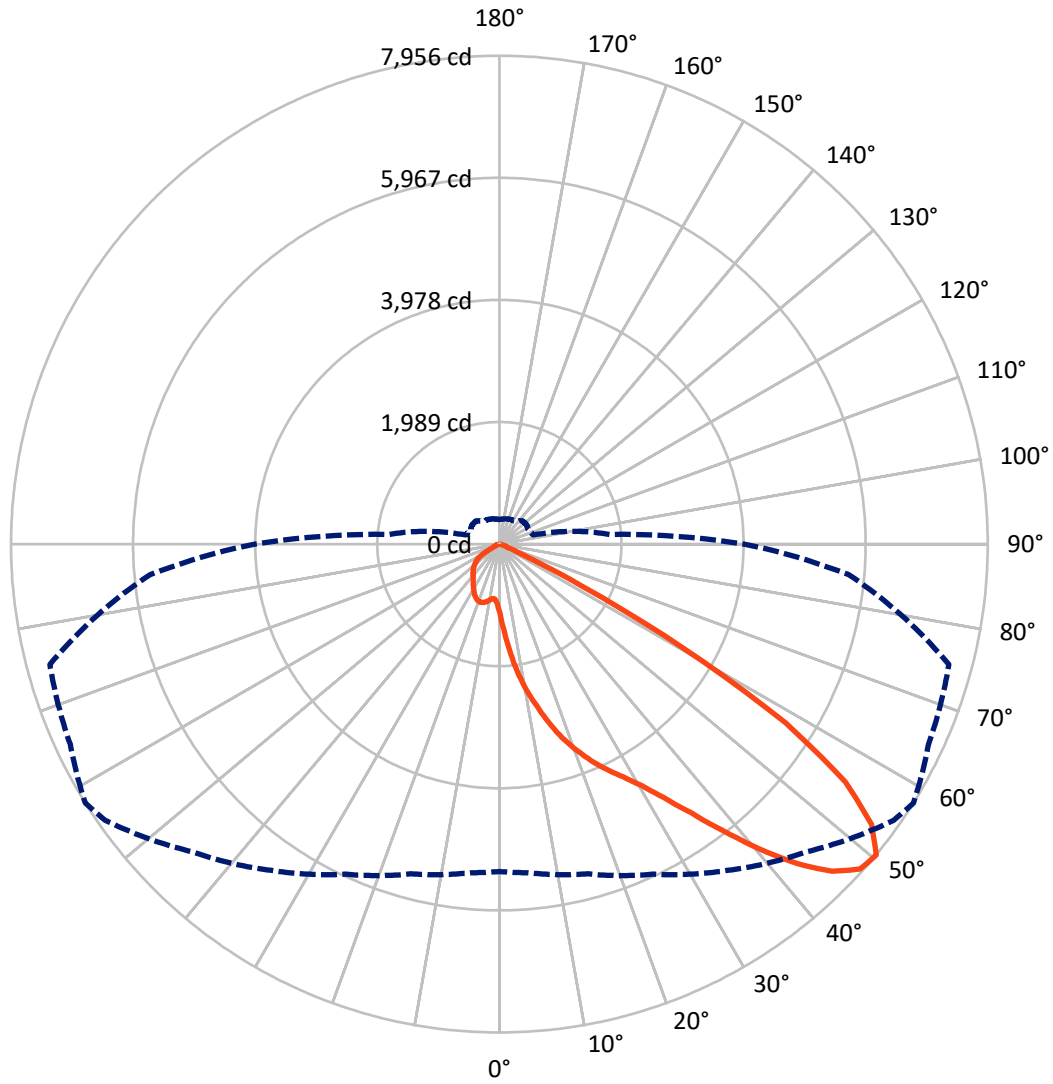
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.7 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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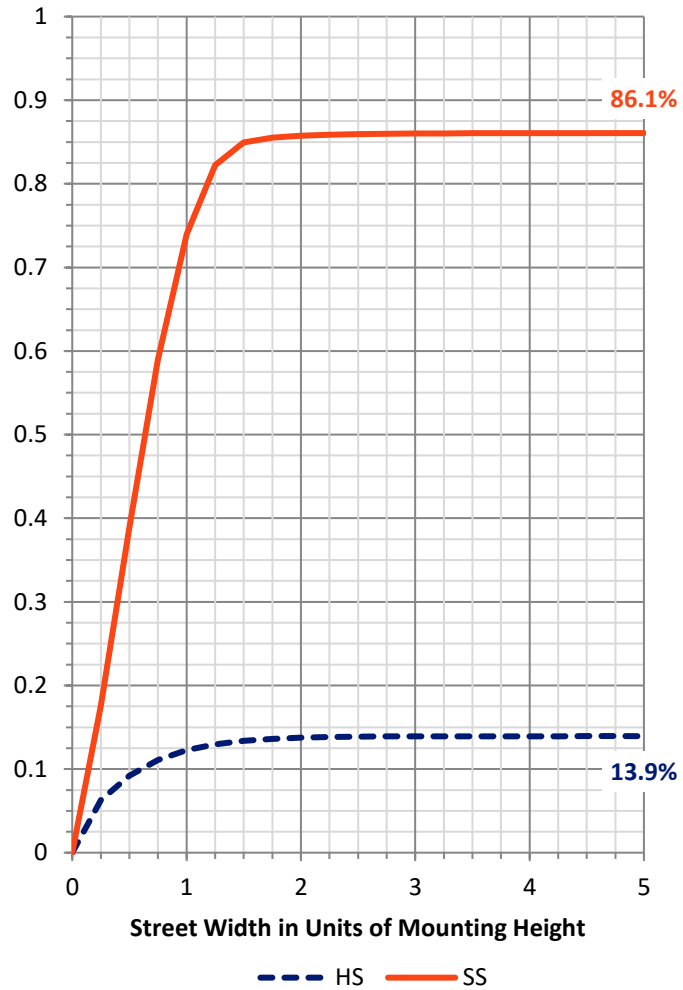
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1324.3	0.0	1324.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8130.9	0.0	8130.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	9455.2	0.0	9455.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	1.5
10°-20°	553.9	5.9
20°-30°	1120.8	11.9
30°-40°	1982.8	21.0
40°-50°	2890.6	30.6
50°-60°	2316.9	24.5
60°-70°	417.4	4.4
70°-80°	32.9	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°	9455.2	100.0
0°-180°	9455.2	100.0

**Coefficient of Utilization**



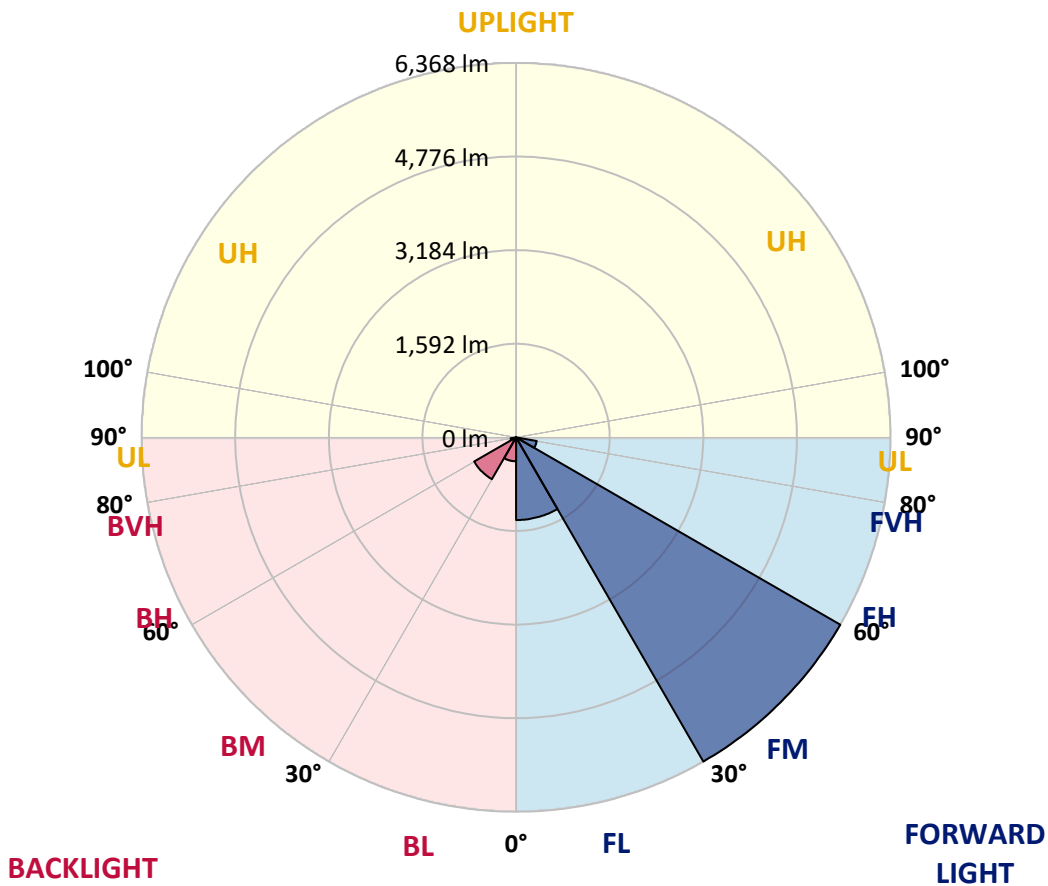
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.9	14.9			
FM (30°-60°)	6367.8	67.3			
FH (60°-80°)	356.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	407.7	4.3	B1/500		
BM (30°-60°)	822.5	8.7	B1/1000		
BH (60°-80°)	94.1	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°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1671.4	1645.1	1629.9	1617.8	1564.2	1479.3	1423.6	1394.3	1345.8	1263.9	1193.1
5°	2181.0	2161.7	2126.4	2102.1	2033.3	1913.0	1788.6	1739.1	1628.9	1443.9	1278.0
7.5°	2518.7	2504.5	2491.4	2459.0	2394.3	2285.1	2147.6	2096.0	1926.2	1663.3	1391.3
10°	2778.5	2767.4	2752.2	2751.2	2700.7	2602.6	2468.1	2414.5	2230.5	1901.9	1524.8
12.5°	3007.0	2997.9	2994.9	3023.2	2990.9	2918.1	2772.5	2705.7	2510.6	2145.6	1672.4
15°	3163.8	3161.7	3174.9	3230.5	3248.7	3215.3	3093.0	3021.2	2796.7	2390.3	1835.2
17.5°	3235.5	3241.6	3266.9	3362.9	3443.8	3472.1	3378.1	3317.4	3080.8	2638.0	2009.1
20°	3357.9	3355.9	3371.0	3462.0	3561.1	3662.2	3633.9	3582.4	3368.0	2899.9	2202.2
22.5°	3702.7	3673.4	3641.0	3655.2	3690.5	3808.8	3861.4	3835.1	3664.3	3168.8	2401.4
25°	4232.5	4202.2	4098.0	3996.9	3930.2	3983.8	4055.6	4068.7	3958.5	3444.8	2609.7
27.5°	4794.7	4767.4	4650.1	4498.4	4307.3	4214.3	4267.9	4294.2	4247.7	3773.5	2831.1
30°	5321.5	5285.1	5156.6	4968.6	4747.2	4604.6	4543.9	4562.1	4589.4	4162.7	3091.0
32.5°	5778.5	5751.2	5597.5	5399.3	5186.0	5037.3	4895.8	4926.1	4992.9	4639.0	3423.6
35°	6165.7	6151.6	5988.8	5791.6	5566.1	5490.3	5369.0	5375.0	5441.8	5214.3	3829.1
37.5°	6502.4	6478.2	6330.5	6147.5	5968.6	5956.4	5923.1	5926.1	5960.5	5884.6	4295.2
40°	6714.8	6692.5	6587.4	6474.1	6346.7	6348.7	6521.6	6534.8	6495.4	6542.9	4787.6
42.5°	6794.6	6778.5	6721.8	6722.9	6709.7	6769.4	7093.9	7118.2	6976.6	7059.6	5208.2
45°	6656.1	6649.0	6653.1	6798.7	6956.4	7140.4	7562.1	7604.5	7404.3	7402.3	5536.8
47.5°	6209.2	6195.1	6313.4	6561.1	6926.1	7284.0	7845.2	7910.9	7703.6	7598.5	5743.1
50°	5333.6	5374.0	5561.1	5933.2	6488.3	7086.9	7842.2	7956.4	7714.8	7581.3	5708.7
52.5°	3863.4	3855.4	4264.9	4776.5	5451.9	6455.9	7425.6	7592.4	7444.8	7412.4	5631.9
55°	2102.1	2175.9	2451.9	3129.4	3972.6	5261.8	6474.1	6838.1	7009.0	7350.8	5770.4
57.5°	772.5	804.8	977.7	1457.0	2103.1	3271.9	4945.3	5494.4	6022.2	7178.9	5747.1
60°	311.4	317.5	386.2	535.9	883.7	1665.3	2966.6	3453.9	3951.4	5495.4	4410.5
62.5°	226.5	234.6	261.9	313.4	446.9	728.0	1279.1	1487.3	1625.9	2721.9	2172.9
65°	183.0	189.1	211.3	234.6	295.2	391.3	412.5	397.4	395.3	703.7	498.5
67.5°	151.7	157.7	173.9	190.1	212.3	195.1	141.6	148.6	121.3	120.3	98.1
70°	111.2	118.3	134.5	151.7	127.4	52.6	81.9	121.3	92.0	76.8	74.8
72.5°	83.9	89.0	104.1	99.1	37.4	20.2	54.6	88.0	70.8	56.6	55.6
75°	62.7	65.7	52.6	16.2	4.0	5.1	20.2	36.4	39.4	32.4	32.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	4.0	5.1	6.1
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°	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4	1129.4
2.5°	1152.7	1110.2	1049.5	999.0	960.6	923.1	894.8	866.5	865.5	851.4	848.3
5°	1201.2	1124.4	1013.1	933.3	884.7	855.4	835.2	825.1	820.0	815.0	812.9
7.5°	1271.0	1160.8	1007.1	922.1	881.7	862.5	848.3	842.3	839.2	835.2	834.2
10°	1356.9	1213.3	1029.3	943.4	908.0	889.8	874.6	865.5	860.5	853.4	851.4
12.5°	1460.0	1278.0	1064.7	978.8	941.3	917.1	896.9	883.7	876.6	867.5	865.5
15°	1571.3	1347.8	1104.1	1011.1	966.6	935.3	910.0	889.8	876.6	865.5	862.5
17.5°	1686.5	1418.6	1139.5	1033.4	978.8	941.3	904.9	877.6	861.5	847.3	843.3
20°	1815.9	1491.4	1162.8	1037.4	974.7	925.2	882.7	848.3	832.1	812.9	808.9
22.5°	1951.4	1559.1	1172.9	1028.3	952.5	894.8	849.3	813.9	790.7	770.5	764.4
25°	2082.9	1619.8	1167.8	1003.0	919.1	852.4	805.9	769.5	744.2	724.0	718.9
27.5°	2222.4	1670.4	1149.6	965.6	873.6	805.9	761.4	730.0	706.8	684.5	679.5
30°	2379.1	1716.9	1120.3	920.1	820.0	758.3	724.0	702.7	677.4	654.2	647.1
32.5°	2568.2	1758.3	1077.8	865.5	772.5	716.9	697.7	681.5	652.2	627.9	622.8
35°	2784.6	1792.7	1024.3	808.9	726.0	690.6	686.5	665.3	626.9	598.6	592.5
37.5°	3035.3	1826.1	960.6	753.3	691.6	678.5	679.5	643.1	596.6	562.2	558.1
40°	3305.3	1859.4	889.8	704.7	660.3	671.4	662.3	610.7	534.9	501.5	497.5
42.5°	3586.4	1895.8	818.0	659.2	634.0	644.1	630.9	546.0	491.4	474.2	472.2
45°	3840.2	1939.3	740.1	613.7	607.7	604.6	582.4	494.4	471.2	459.0	458.0
47.5°	4023.2	1932.2	657.2	570.3	579.4	569.3	501.5	470.2	451.0	434.8	430.7
50°	3989.8	1808.9	571.3	521.7	543.0	533.9	451.0	441.9	424.7	407.5	401.4
52.5°	3904.9	1641.0	496.5	470.2	503.5	482.3	416.6	407.5	392.3	370.1	363.0
55°	3950.4	1483.3	437.8	428.7	463.1	399.4	378.2	364.0	347.8	323.6	320.5
57.5°	3803.8	1210.3	351.9	357.9	409.5	340.7	331.6	309.4	282.1	265.9	263.9
60°	2632.9	650.1	220.4	227.5	296.3	286.1	297.3	277.0	243.7	228.5	225.5
62.5°	1209.3	260.9	120.3	115.3	155.7	194.1	254.8	252.8	211.3	187.1	185.0
65°	293.2	119.3	85.9	80.9	88.0	116.3	165.8	199.2	170.9	142.6	139.5
67.5°	95.0	97.1	78.9	73.8	77.9	87.0	99.1	110.2	109.2	100.1	98.1
70°	75.8	88.0	72.8	66.7	66.7	69.8	66.7	53.6	46.5	50.6	52.6
72.5°	56.6	66.7	57.6	51.6	49.5	48.5	41.5	30.3	21.2	19.2	18.2
75°	33.4	37.4	35.4	30.3	28.3	25.3	20.2	13.1	7.1	5.1	3.0
77.5°	6.1	7.1	8.1	6.1	5.1	4.0	3.0	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.0	1.0	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)