

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: P639537

Luminaire Tested: GWS-SA5C-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639537  
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-SA5C-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

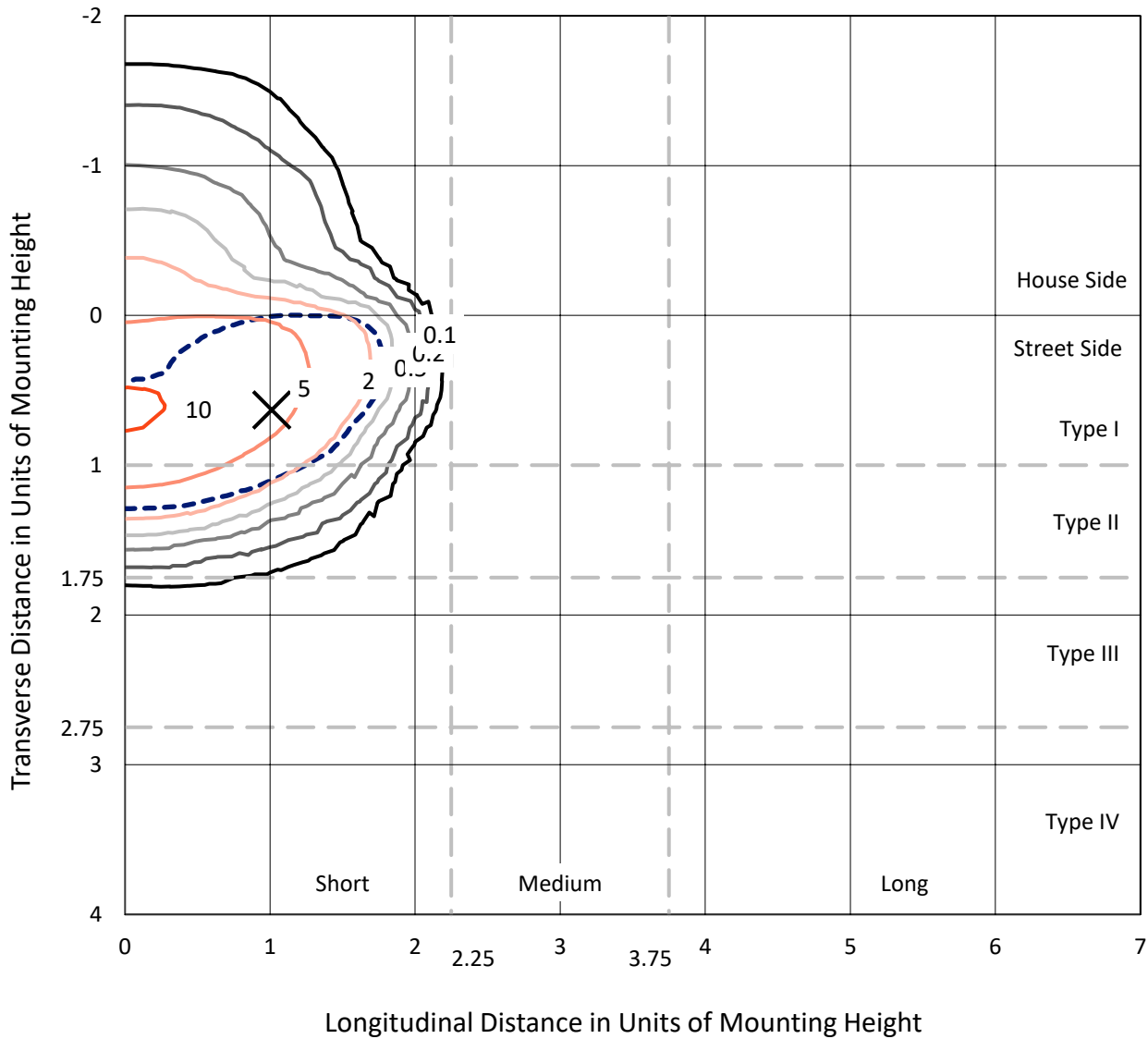
Lumens per Lamp: N/A  
Luminaire Lumens: 11758 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

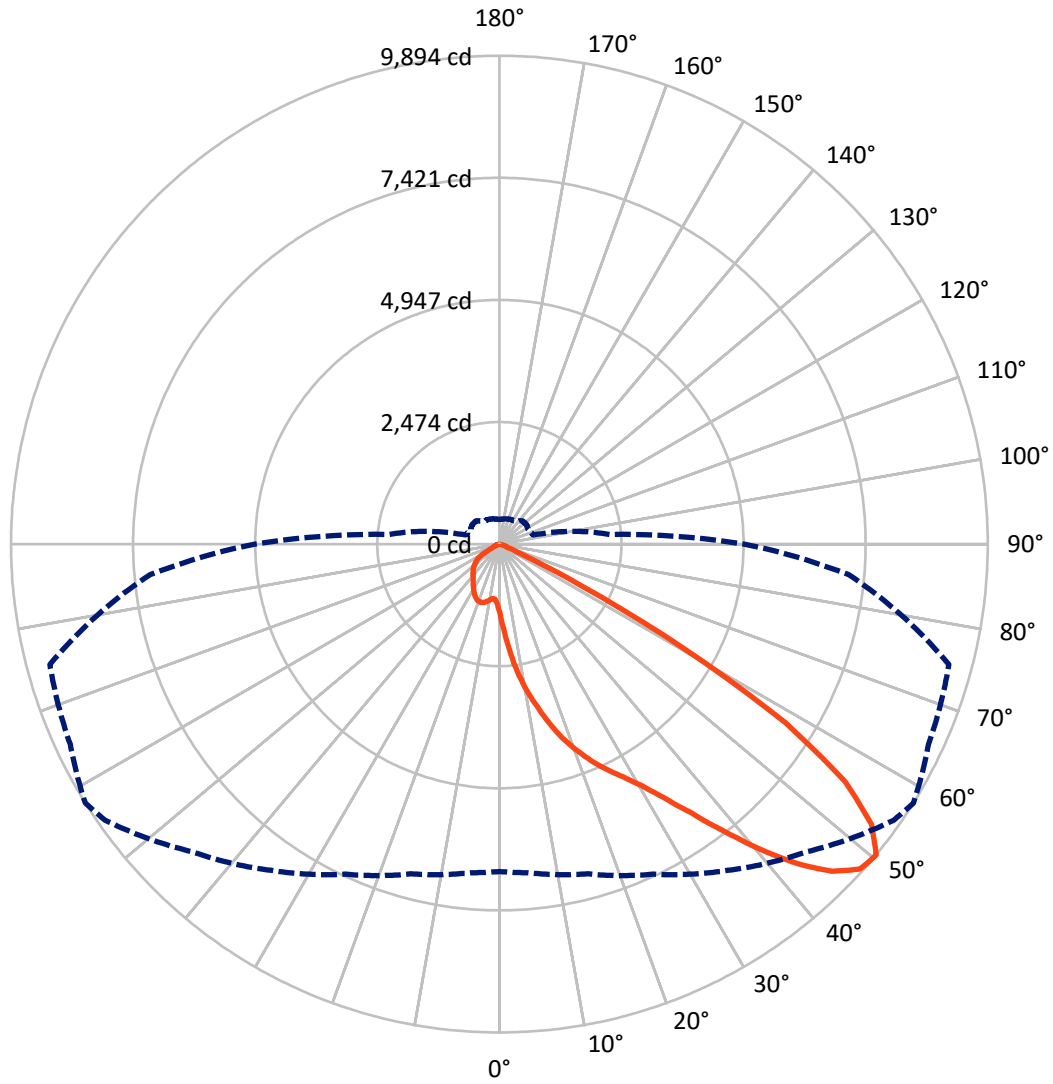
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 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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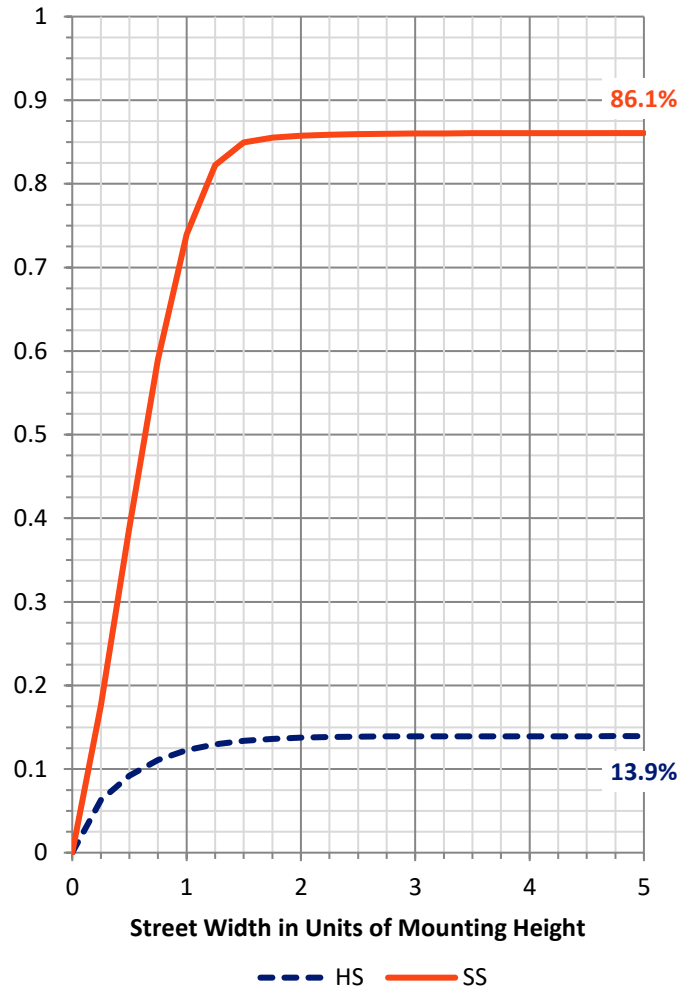
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1646.9	0.0	1646.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	10111.1	0.0	10111.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	11758.0	0.0	11758.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.0	1.5
10°-20°	688.8	5.9
20°-30°	1393.8	11.9
30°-40°	2465.8	21.0
40°-50°	3594.6	30.6
50°-60°	2881.1	24.5
60°-70°	519.1	4.4
70°-80°	40.9	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°	11758.0	100.0
0°-180°	11758.0	100.0

**Coefficient of Utilization**



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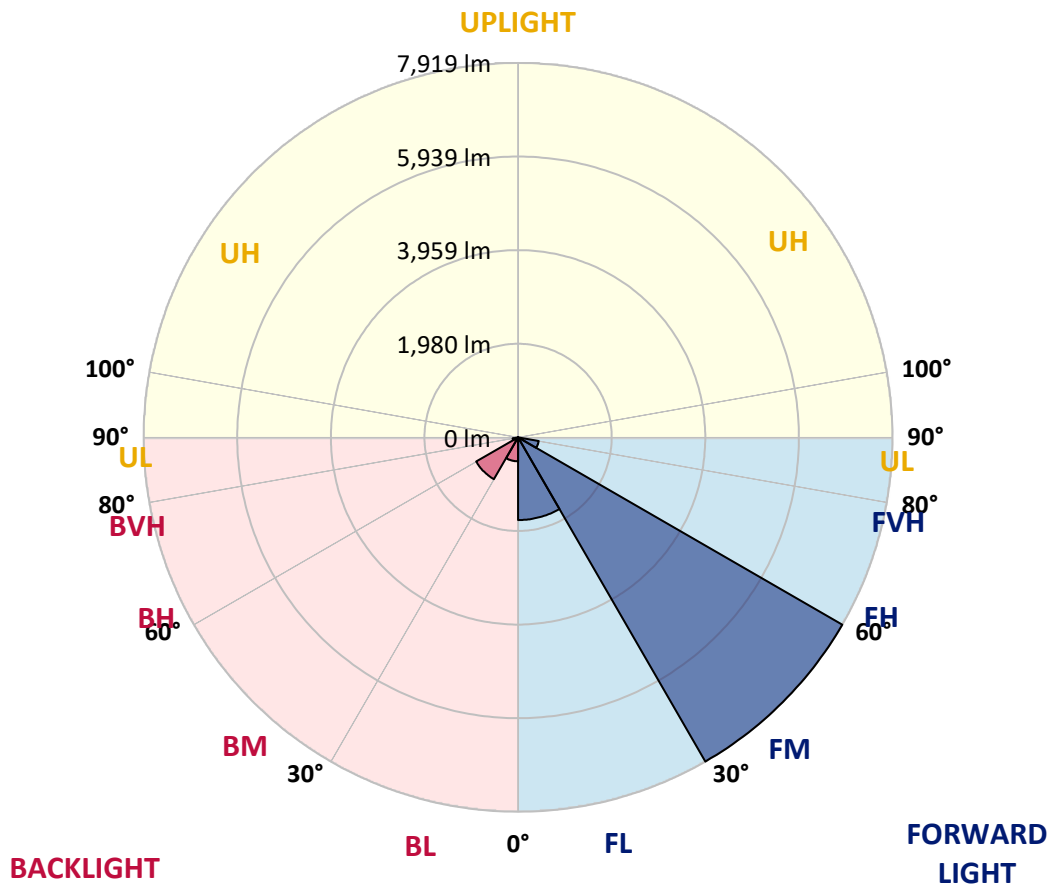
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.6	14.9			
FM (30°-60°)	7918.7	67.3			
FH (60°-80°)	442.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	507.0	4.3	B2/1000		
BM (30°-60°)	1022.8	8.7	B2/2500		
BH (60°-80°)	117.1	1.0	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	2078.4	2045.7	2026.9	2011.8	1945.1	1839.5	1770.4	1733.9	1673.5	1571.7	1483.7
5°	2712.1	2688.2	2644.2	2614.1	2528.6	2378.9	2224.3	2162.7	2025.6	1795.5	1589.3
7.5°	3132.1	3114.5	3098.1	3057.9	2977.4	2841.6	2670.6	2606.5	2395.3	2068.4	1730.1
10°	3455.2	3441.4	3422.5	3421.3	3358.4	3236.4	3069.2	3002.6	2773.7	2365.1	1896.1
12.5°	3739.4	3728.1	3724.3	3759.5	3719.3	3628.7	3447.7	3364.7	3122.0	2668.1	2079.7
15°	3934.3	3931.8	3948.1	4017.3	4039.9	3998.4	3846.3	3757.0	3477.9	2972.4	2282.1
17.5°	4023.6	4031.1	4062.5	4182.0	4282.6	4317.8	4200.8	4125.4	3831.2	3280.5	2498.4
20°	4175.7	4173.2	4192.0	4305.2	4428.4	4554.2	4519.0	4454.8	4188.3	3606.1	2738.5
22.5°	4604.5	4568.0	4527.8	4545.4	4589.4	4736.5	4801.9	4769.2	4556.7	3940.6	2986.2
25°	5263.3	5225.6	5096.1	4970.4	4887.4	4954.0	5043.3	5059.6	4922.6	4283.8	3245.3
27.5°	5962.4	5928.5	5782.6	5594.0	5356.4	5240.7	5307.3	5340.0	5282.2	4692.5	3520.6
30°	6617.5	6572.2	6412.5	6178.7	5903.3	5726.0	5650.6	5673.2	5707.2	5176.6	3843.8
32.5°	7185.8	7151.9	6960.8	6714.3	6449.0	6264.2	6088.1	6125.9	6208.9	5768.8	4257.4
35°	7667.4	7649.8	7447.4	7202.2	6921.8	6827.5	6676.6	6684.1	6767.1	6484.2	4761.6
37.5°	8086.1	8055.9	7872.3	7644.8	7422.2	7407.1	7365.6	7369.4	7412.1	7317.8	5341.3
40°	8350.1	8322.5	8191.7	8050.9	7892.5	7895.0	8110.0	8126.3	8077.3	8136.4	5953.6
42.5°	8449.5	8429.4	8358.9	8360.2	8343.9	8418.0	8821.6	8851.8	8675.8	8778.9	6476.7
45°	8277.2	8268.4	8273.4	8454.5	8650.6	8879.5	9403.8	9456.6	9207.7	9205.1	6885.3
47.5°	7721.5	7703.9	7851.0	8159.0	8612.9	9058.0	9755.9	9837.6	9579.8	9449.1	7141.8
50°	6632.6	6682.9	6915.5	7378.2	8068.5	8812.8	9752.1	9894.2	9593.7	9427.7	7099.1
52.5°	4804.4	4794.3	5303.6	5939.8	6779.7	8028.3	9234.1	9441.5	9258.0	9217.7	7003.5
55°	2614.1	2705.8	3049.1	3891.5	4940.2	6543.3	8050.9	8503.5	8716.0	9141.0	7175.8
57.5°	960.6	1000.9	1215.9	1811.9	2615.3	4068.8	6149.8	6832.5	7488.8	8927.3	7146.8
60°	387.3	394.8	480.3	666.4	1098.9	2070.9	3689.1	4295.1	4913.8	6833.8	5484.6
62.5°	281.6	291.7	325.7	389.8	555.8	905.3	1590.6	1849.6	2021.8	3384.8	2702.1
65°	227.6	235.1	262.8	291.7	367.1	486.6	513.0	494.1	491.6	875.1	619.9
67.5°	188.6	196.1	216.3	236.4	264.0	242.7	176.0	184.8	150.9	149.6	122.0
70°	138.3	147.1	167.2	188.6	158.4	65.4	101.8	150.9	114.4	95.6	93.0
72.5°	104.4	110.6	129.5	123.2	46.5	25.1	67.9	109.4	88.0	70.4	69.2
75°	78.0	81.7	65.4	20.1	5.0	6.3	25.1	45.3	49.0	40.2	40.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.8	5.0	6.3	7.5
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°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1433.4	1380.6	1305.1	1242.3	1194.5	1148.0	1112.8	1077.6	1076.3	1058.7	1054.9
5°	1493.7	1398.2	1259.9	1160.5	1100.2	1063.7	1038.6	1026.0	1019.7	1013.4	1010.9
7.5°	1580.5	1443.5	1252.3	1146.7	1096.4	1072.5	1054.9	1047.4	1043.6	1038.6	1037.3
10°	1687.4	1508.8	1280.0	1173.1	1129.1	1106.5	1087.6	1076.3	1070.0	1061.2	1058.7
12.5°	1815.6	1589.3	1324.0	1217.1	1170.6	1140.4	1115.3	1098.9	1090.1	1078.8	1076.3
15°	1953.9	1676.1	1373.0	1257.4	1202.0	1163.1	1131.6	1106.5	1090.1	1076.3	1072.5
17.5°	2097.3	1764.1	1417.0	1285.0	1217.1	1170.6	1125.3	1091.4	1071.3	1053.7	1048.6
20°	2258.2	1854.6	1446.0	1290.1	1212.1	1150.5	1097.7	1054.9	1034.8	1010.9	1005.9
22.5°	2426.7	1938.9	1458.5	1278.7	1184.4	1112.8	1056.2	1012.2	983.3	958.1	950.6
25°	2590.2	2014.3	1452.3	1247.3	1142.9	1060.0	1002.1	956.9	925.4	900.3	894.0
27.5°	2763.7	2077.2	1429.6	1200.8	1086.4	1002.1	946.8	907.8	878.9	851.2	844.9
30°	2958.6	2135.0	1393.2	1144.2	1019.7	943.0	900.3	873.9	842.4	813.5	804.7
32.5°	3193.7	2186.6	1340.3	1076.3	960.6	891.5	867.6	847.5	811.0	780.8	774.5
35°	3462.8	2229.3	1273.7	1005.9	902.8	858.8	853.7	827.3	779.6	744.4	736.8
37.5°	3774.6	2270.8	1194.5	936.7	860.0	843.7	844.9	799.7	741.8	699.1	694.1
40°	4110.3	2312.3	1106.5	876.4	821.1	834.9	823.6	759.4	665.1	623.7	618.6
42.5°	4459.9	2357.6	1017.2	819.8	788.4	800.9	784.6	679.0	611.1	589.7	587.2
45°	4775.5	2411.6	920.4	763.2	755.7	751.9	724.2	614.8	585.9	570.8	569.6
47.5°	5003.0	2402.8	817.3	709.2	720.5	707.9	623.7	584.7	560.8	540.7	535.6
50°	4961.5	2249.4	710.4	648.8	675.2	663.9	560.8	549.5	528.1	506.7	499.2
52.5°	4855.9	2040.7	617.4	584.7	626.2	599.8	518.0	506.7	487.9	460.2	451.4
55°	4912.5	1844.5	544.4	533.1	575.9	496.7	470.3	452.7	432.5	402.4	398.6
57.5°	4730.2	1505.1	437.6	445.1	509.2	423.7	412.4	384.8	350.8	330.7	328.2
60°	3274.2	808.5	274.1	282.9	368.4	355.8	369.7	344.5	303.0	284.2	280.4
62.5°	1503.8	324.4	149.6	143.3	193.6	241.4	316.9	314.3	262.8	232.6	230.1
65°	364.6	148.4	106.9	100.6	109.4	144.6	206.2	247.7	212.5	177.3	173.5
67.5°	118.2	120.7	98.1	91.8	96.8	108.1	123.2	137.1	135.8	124.5	122.0
70°	94.3	109.4	90.5	83.0	83.0	86.8	83.0	66.6	57.8	62.9	65.4
72.5°	70.4	83.0	71.7	64.1	61.6	60.4	51.6	37.7	26.4	23.9	22.6
75°	41.5	46.5	44.0	37.7	35.2	31.4	25.1	16.3	8.8	6.3	3.8
77.5°	7.5	8.8	10.1	7.5	6.3	5.0	3.8	1.3	0.0	0.0	0.0
80°	0.0	1.3	1.3	1.3	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)