

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: P639207

Luminaire Tested: GWS-SA5B-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639207
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11739.4 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

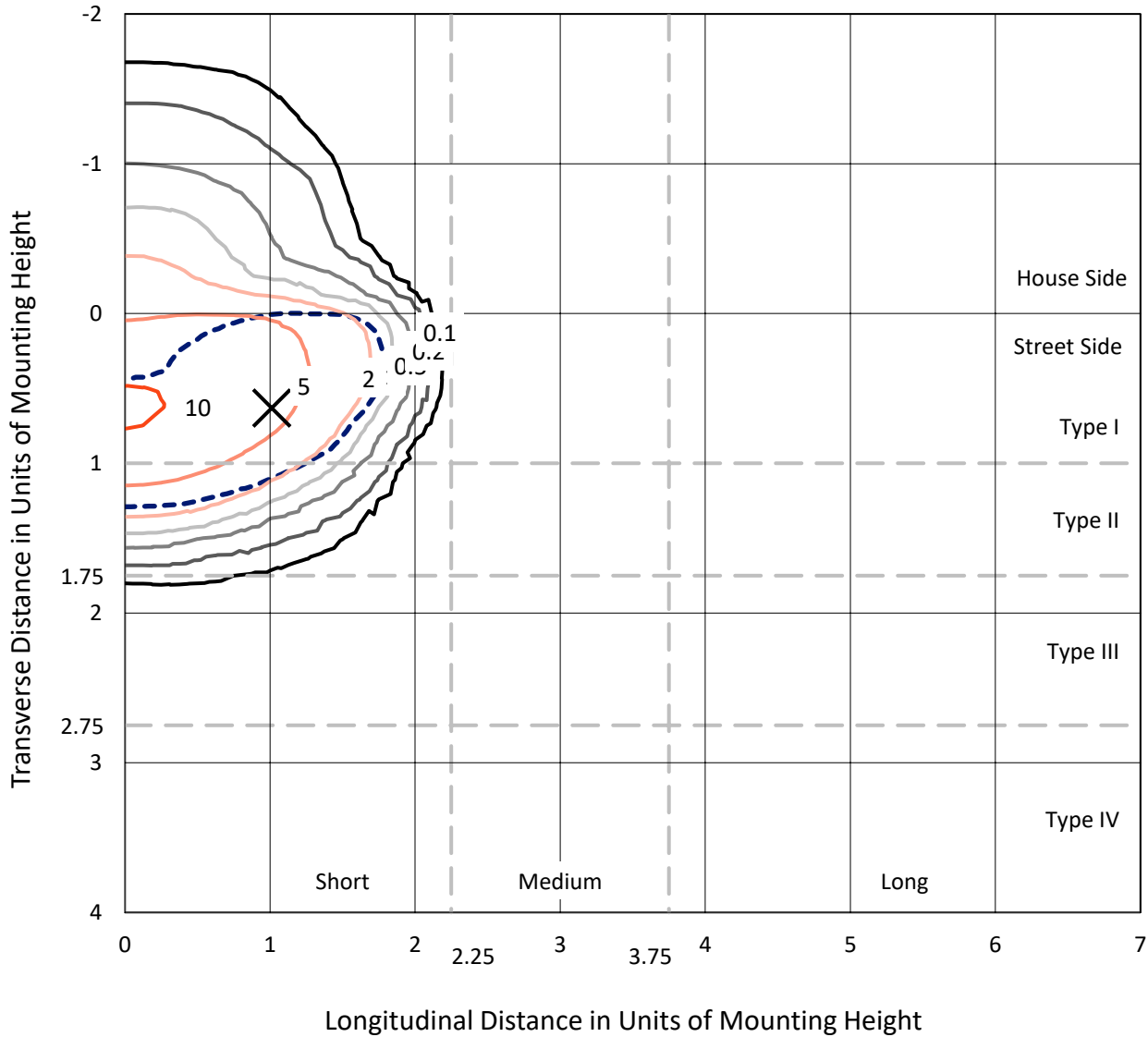
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

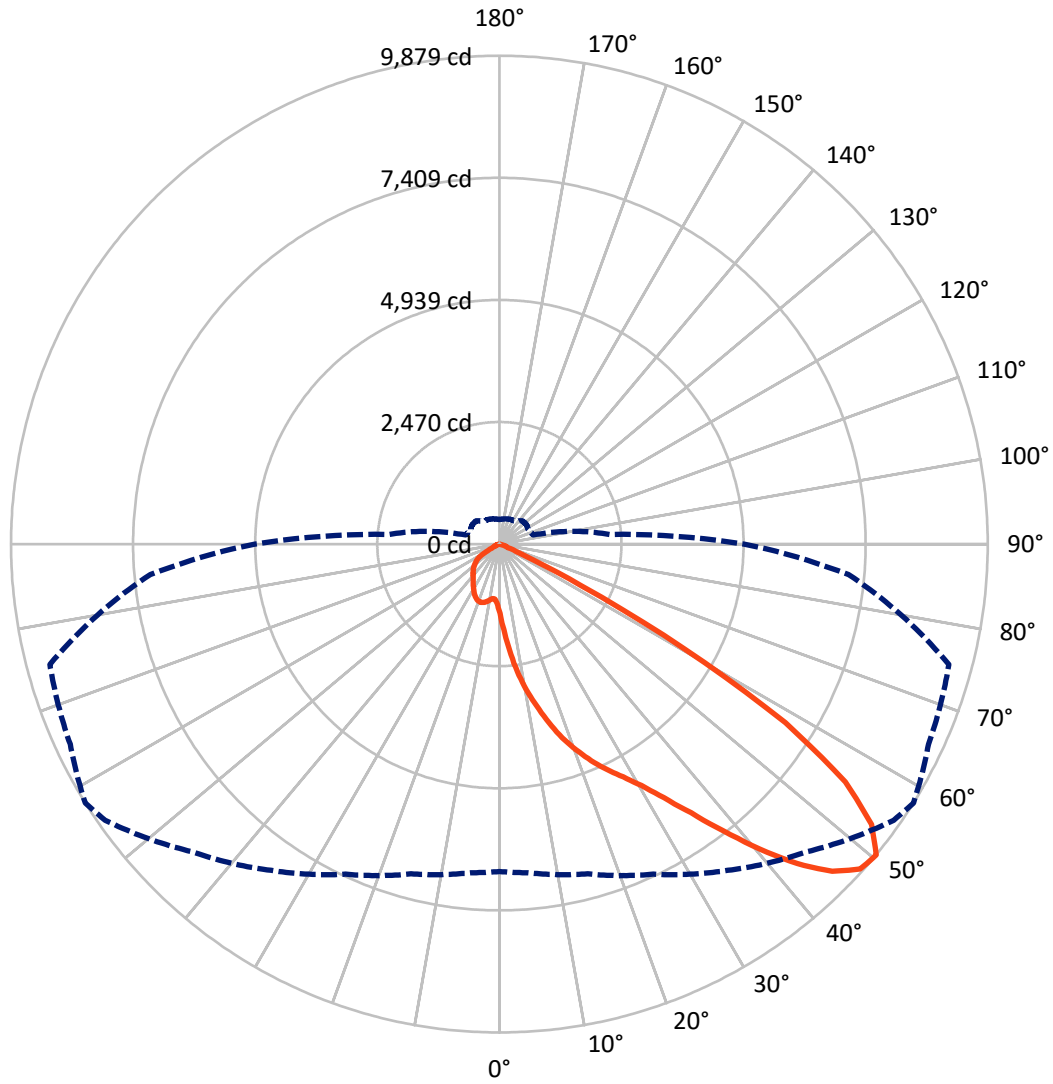
✕ Max cd
 - - - 1/2 Max cd



Based on 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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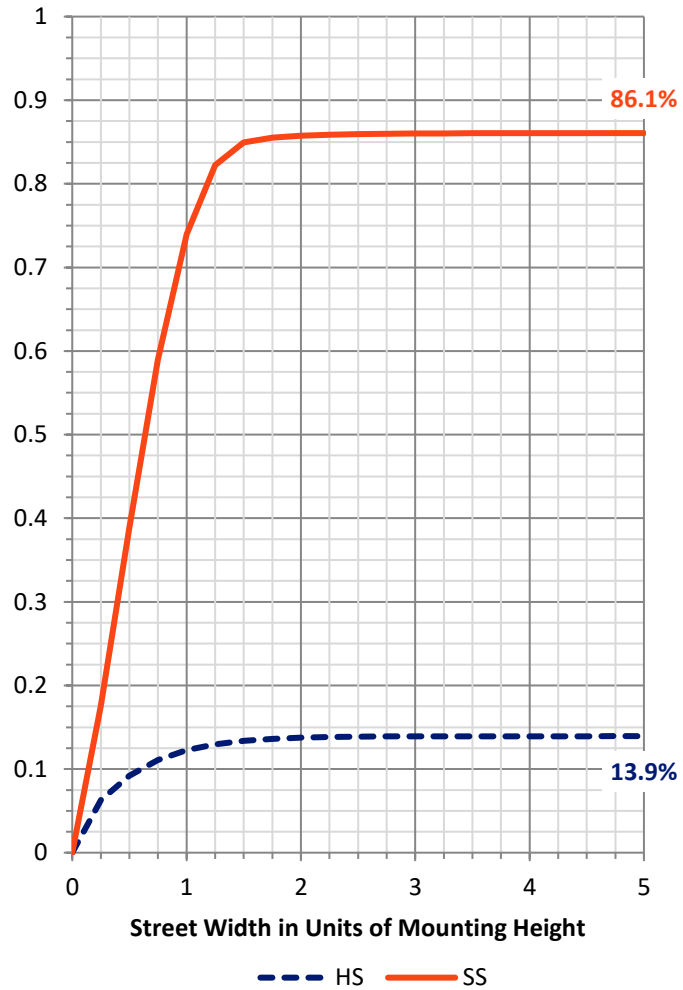
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.3	0.0	1644.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10095.1	0.0	10095.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	11739.4	0.0	11739.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	1.5
10°-20°	687.7	5.9
20°-30°	1391.6	11.9
30°-40°	2461.9	21.0
40°-50°	3588.9	30.6
50°-60°	2876.6	24.5
60°-70°	518.2	4.4
70°-80°	40.8	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°	11739.4	100.0
0°-180°	11739.4	100.0

Coefficient of Utilization



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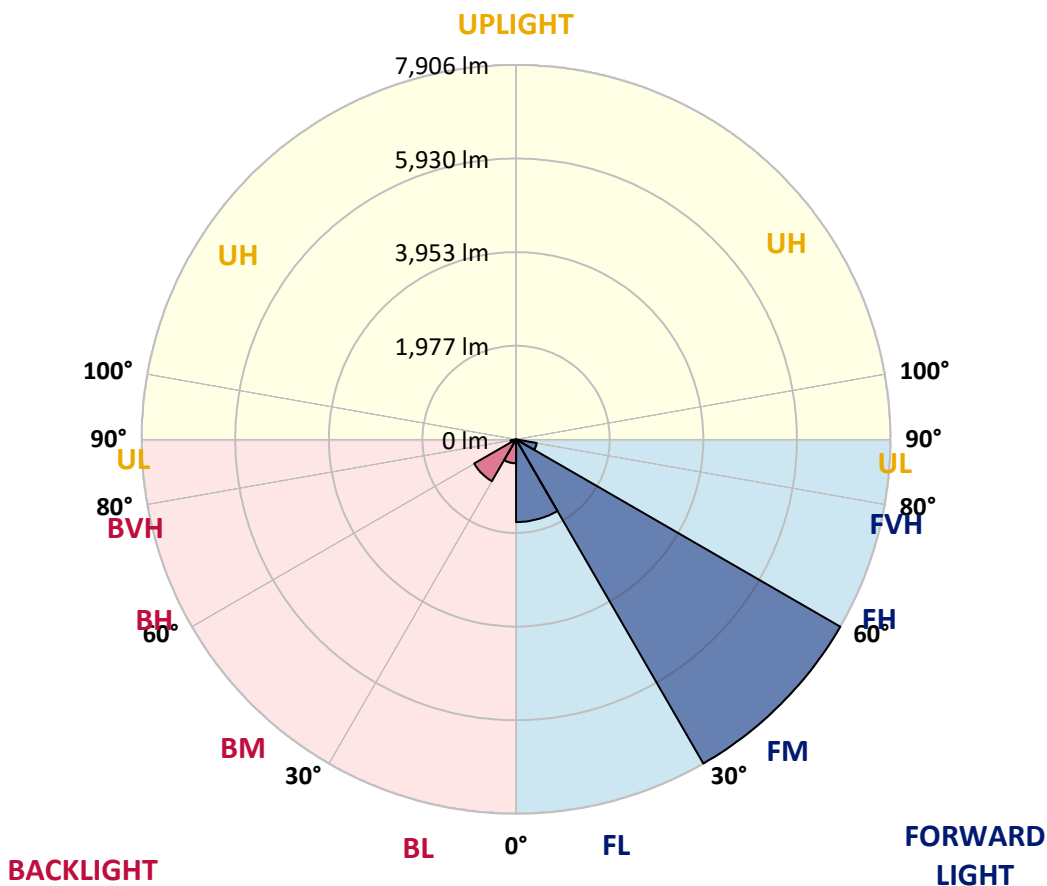
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1746.8	14.9			
FM (30°-60°)	7906.1	67.3			
FH (60°-80°)	442.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	506.2	4.3	B2/1000		
BM (30°-60°)	1021.2	8.7	B2/2500		
BH (60°-80°)	116.9	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°	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3
2.5°	2075.1	2042.5	2023.7	2008.6	1942.1	1836.6	1767.6	1731.2	1670.9	1569.2	1481.3
5°	2707.8	2684.0	2640.0	2609.9	2524.6	2375.2	2220.8	2159.2	2022.4	1792.7	1586.8
7.5°	3127.1	3109.6	3093.2	3053.1	2972.7	2837.1	2666.4	2602.4	2391.5	2065.1	1727.4
10°	3449.8	3436.0	3417.1	3415.9	3353.1	3231.3	3064.4	2997.8	2769.4	2361.4	1893.1
12.5°	3733.5	3722.2	3718.4	3753.6	3713.4	3623.0	3442.2	3359.4	3117.1	2663.9	2076.4
15°	3928.1	3925.6	3941.9	4010.9	4033.5	3992.1	3840.2	3751.1	3472.4	2967.7	2278.5
17.5°	4017.2	4024.7	4056.1	4175.4	4275.8	4310.9	4194.2	4118.9	3825.1	3275.3	2494.4
20°	4169.1	4166.6	4185.4	4298.4	4421.4	4547.0	4511.8	4447.8	4181.6	3600.4	2734.2
22.5°	4597.2	4560.8	4520.6	4538.2	4582.1	4729.0	4794.3	4761.6	4549.5	3934.3	2981.5
25°	5255.0	5217.3	5088.0	4962.5	4879.6	4946.2	5035.3	5051.6	4914.8	4277.1	3240.1
27.5°	5953.0	5919.1	5773.5	5585.2	5347.9	5232.4	5298.9	5331.6	5273.8	4685.1	3515.0
30°	6607.0	6561.8	6402.4	6168.9	5894.0	5717.0	5641.6	5664.2	5698.1	5168.4	3837.7
32.5°	7174.5	7140.6	6949.7	6703.7	6438.8	6254.3	6078.5	6116.2	6199.0	5759.6	4250.7
35°	7655.3	7637.7	7435.6	7190.8	6910.8	6816.7	6666.0	6673.6	6756.4	6474.0	4754.1
37.5°	8073.3	8043.2	7859.9	7632.7	7410.5	7395.4	7354.0	7357.7	7400.4	7306.3	5332.8
40°	8336.9	8309.3	8178.8	8038.2	7880.0	7882.5	8097.2	8113.5	8064.5	8123.5	5944.2
42.5°	8436.1	8416.0	8345.7	8347.0	8330.7	8404.7	8807.7	8837.8	8662.1	8765.0	6466.4
45°	8264.1	8255.3	8260.4	8441.1	8637.0	8865.4	9388.9	9441.7	9193.1	9190.6	6874.4
47.5°	7709.2	7691.7	7838.5	8146.1	8599.3	9043.7	9740.4	9822.0	9564.7	9434.1	7130.5
50°	6622.1	6672.3	6904.5	7366.5	8055.7	8798.9	9736.7	9878.5	9578.5	9412.8	7087.8
52.5°	4796.8	4786.7	5295.2	5930.4	6769.0	8015.6	9219.5	9426.6	9243.3	9203.1	6992.4
55°	2609.9	2701.6	3044.3	3885.4	4932.4	6533.0	8038.2	8490.1	8702.2	9126.6	7164.4
57.5°	959.1	999.3	1213.9	1809.0	2611.2	4062.4	6140.0	6821.7	7477.0	8913.1	7135.5
60°	386.7	394.2	479.6	665.3	1097.2	2067.6	3683.3	4288.4	4906.0	6822.9	5475.9
62.5°	281.2	291.2	325.1	389.2	554.9	903.9	1588.0	1846.7	2018.6	3379.5	2697.8
65°	227.2	234.8	262.4	291.2	366.6	485.8	512.2	493.4	490.9	873.7	618.9
67.5°	188.3	195.8	215.9	236.0	263.6	242.3	175.8	184.5	150.6	149.4	121.8
70°	138.1	146.9	167.0	188.3	158.2	65.3	101.7	150.6	114.2	95.4	92.9
72.5°	104.2	110.5	129.3	123.0	46.4	25.1	67.8	109.2	87.9	70.3	69.0
75°	77.8	81.6	65.3	20.1	5.0	6.3	25.1	45.2	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°	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3	1402.3
2.5°	1431.1	1378.4	1303.1	1240.3	1192.6	1146.2	1111.0	1075.9	1074.6	1057.0	1053.3
5°	1491.4	1396.0	1257.9	1158.7	1098.5	1062.0	1036.9	1024.4	1018.1	1011.8	1009.3
7.5°	1578.0	1441.2	1250.4	1144.9	1094.7	1070.8	1053.3	1045.7	1042.0	1036.9	1035.7
10°	1684.7	1506.4	1278.0	1171.3	1127.3	1104.7	1085.9	1074.6	1068.3	1059.5	1057.0
12.5°	1812.8	1586.8	1321.9	1215.2	1168.8	1138.6	1113.5	1097.2	1088.4	1077.1	1074.6
15°	1950.8	1673.4	1370.9	1255.4	1200.1	1161.2	1129.8	1104.7	1088.4	1074.6	1070.8
17.5°	2094.0	1761.3	1414.8	1283.0	1215.2	1168.8	1123.6	1089.7	1069.6	1052.0	1047.0
20°	2254.6	1851.7	1443.7	1288.0	1210.2	1148.7	1095.9	1053.3	1033.2	1009.3	1004.3
22.5°	2422.9	1935.8	1456.2	1276.7	1182.6	1111.0	1054.5	1010.6	981.7	956.6	949.1
25°	2586.1	2011.1	1450.0	1245.3	1141.1	1058.3	1000.5	955.3	924.0	898.8	892.6
27.5°	2759.3	2073.9	1427.4	1198.9	1084.6	1000.5	945.3	906.4	877.5	849.9	843.6
30°	2953.9	2131.6	1391.0	1142.4	1018.1	941.5	898.8	872.5	841.1	812.2	803.4
32.5°	3188.6	2183.1	1338.2	1074.6	959.1	890.1	866.2	846.1	809.7	779.6	773.3
35°	3457.3	2225.8	1271.7	1004.3	901.4	857.4	852.4	826.0	778.3	743.2	735.6
37.5°	3768.6	2267.2	1192.6	935.3	858.7	842.4	843.6	798.4	740.7	698.0	693.0
40°	4103.8	2308.6	1104.7	875.0	819.8	833.6	822.3	758.2	664.1	622.7	617.6
42.5°	4452.8	2353.8	1015.6	818.5	787.1	799.7	783.4	677.9	610.1	588.8	586.3
45°	4767.9	2407.8	918.9	762.0	754.5	750.7	723.1	613.9	585.0	569.9	568.7
47.5°	4995.1	2399.0	816.0	708.0	719.3	706.8	622.7	583.7	559.9	539.8	534.8
50°	4953.7	2245.9	709.3	647.8	674.1	662.8	559.9	548.6	527.3	505.9	498.4
52.5°	4848.2	2037.5	616.4	583.7	625.2	598.8	517.2	505.9	487.1	459.5	450.7
55°	4904.7	1841.6	543.6	532.3	575.0	495.9	469.5	451.9	431.8	401.7	398.0
57.5°	4722.7	1502.7	436.9	444.4	508.4	423.1	411.8	384.1	350.2	330.2	327.7
60°	3269.0	807.2	273.7	282.5	367.8	355.3	369.1	344.0	302.5	283.7	279.9
62.5°	1501.4	323.9	149.4	143.1	193.3	241.0	316.4	313.8	262.4	232.2	229.7
65°	364.1	148.1	106.7	100.4	109.2	144.4	205.9	247.3	212.2	177.0	173.2
67.5°	118.0	120.5	97.9	91.6	96.7	108.0	123.0	136.8	135.6	124.3	121.8
70°	94.2	109.2	90.4	82.9	82.9	86.6	82.9	66.5	57.7	62.8	65.3
72.5°	70.3	82.9	71.6	64.0	61.5	60.3	51.5	37.7	26.4	23.9	22.6
75°	41.4	46.4	43.9	37.7	35.2	31.4	25.1	16.3	8.8	6.3	3.8
77.5°	7.5	8.8	10.0	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)