

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: P638737

Luminaire Tested: GWS-SA4F-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25625.4 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

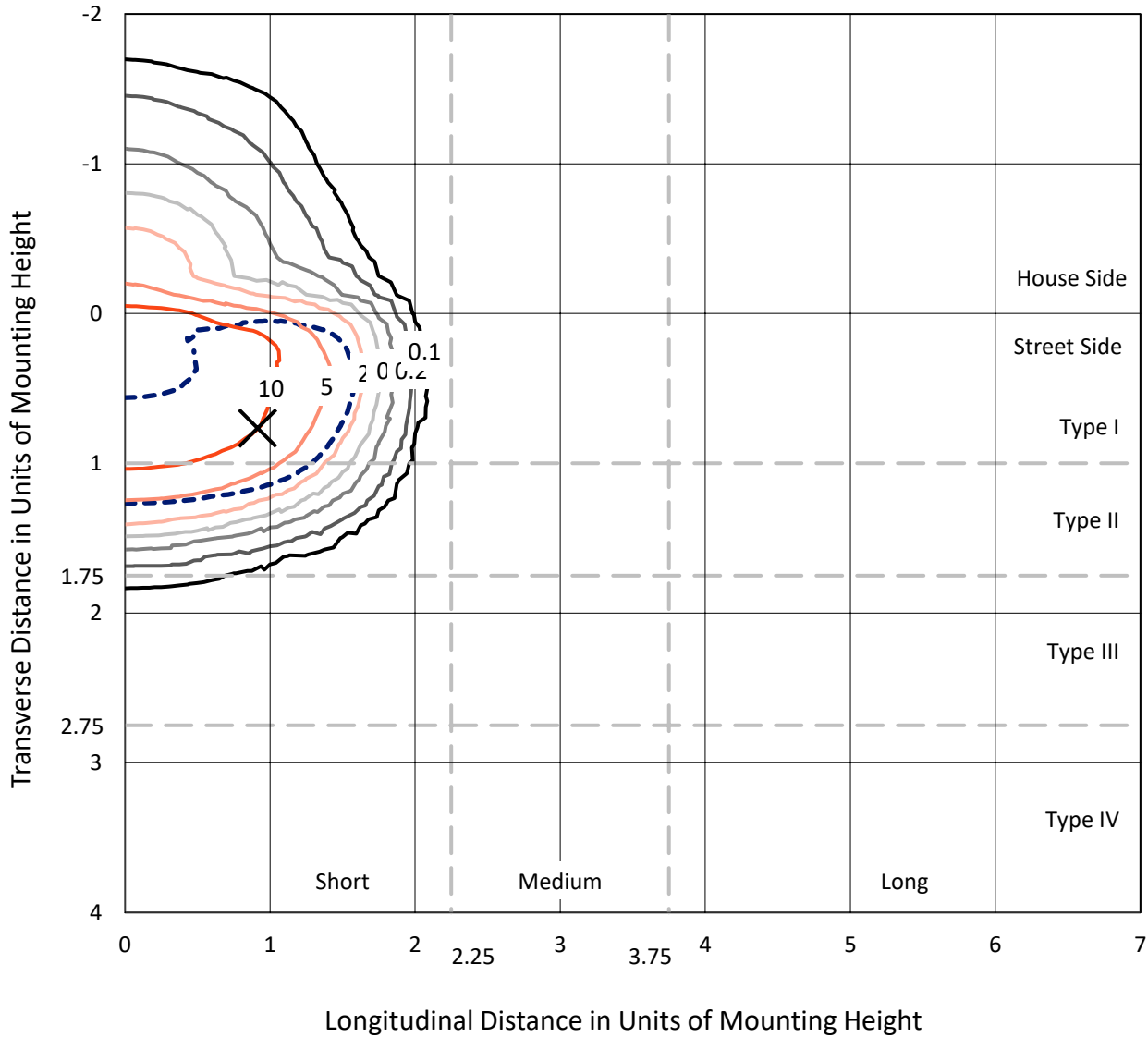
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

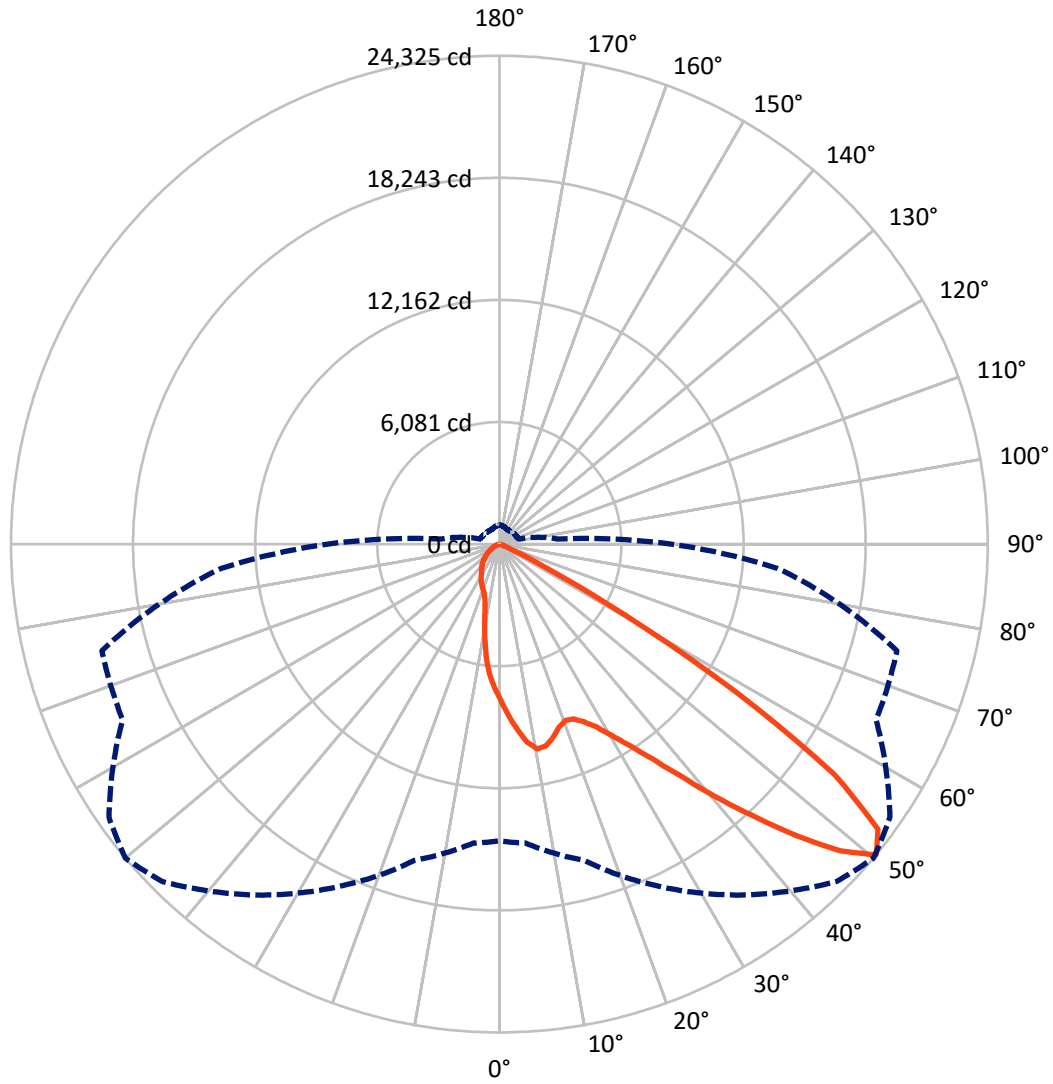
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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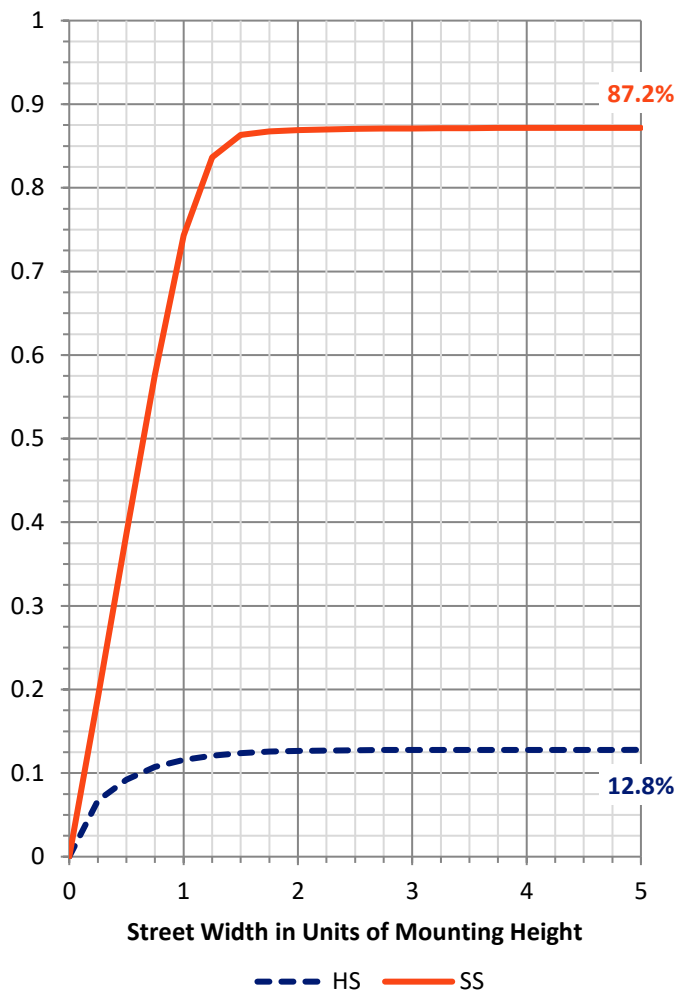
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3292.5	0.0	3292.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	22332.9	0.0	22332.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	25625.4	0.0	25625.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.2	2.8
10°-20°	1858.1	7.3
20°-30°	3066.6	12.0
30°-40°	5060.5	19.7
40°-50°	8006.8	31.2
50°-60°	6062.1	23.7
60°-70°	758.7	3.0
70°-80°	85.8	0.3
80°-90°	6.6	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°	25625.4	100.0
0°-180°	25625.4	100.0

Coefficient of Utilization



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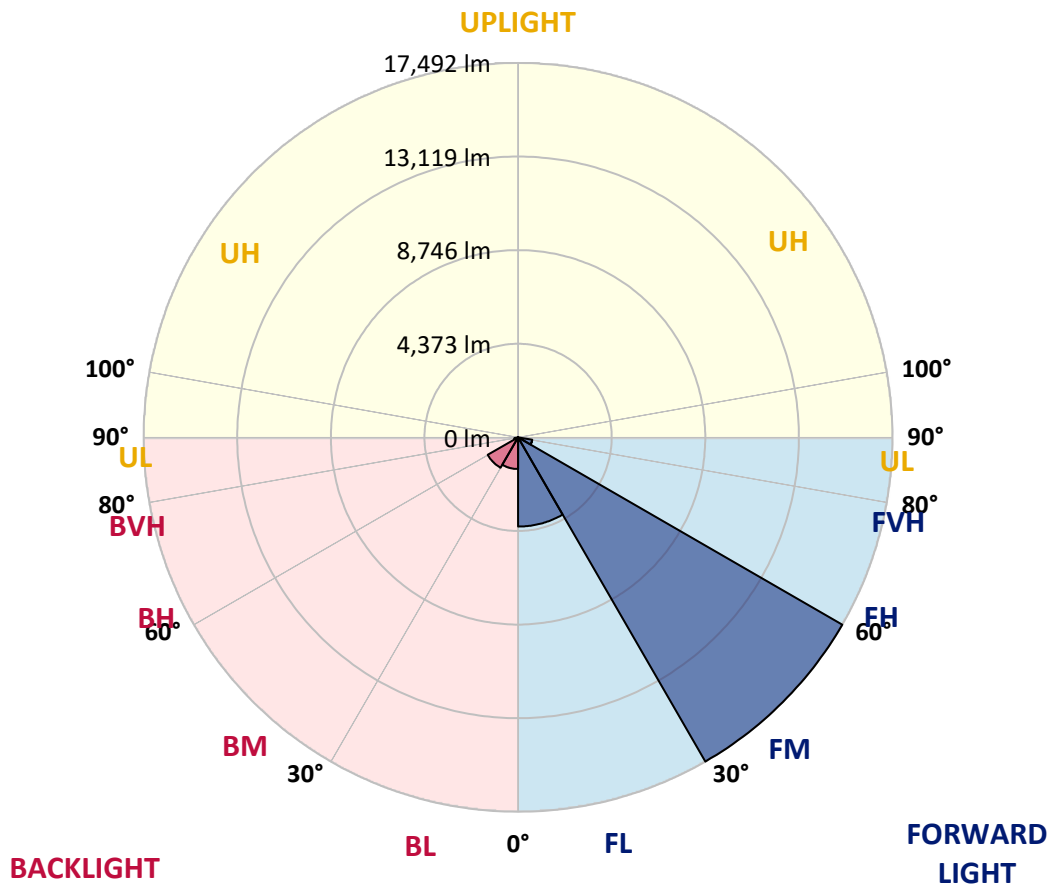
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4167.1	16.3			
FM (30°-60°)	17492.0	68.3			
FH (60°-80°)	670.8	2.6			G1/1800
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	1477.8	5.8	B3/2500		
BM (30°-60°)	1637.4	6.4	B2/2500		
BH (60°-80°)	173.7	0.7	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5
2.5°	8846.4	8917.1	8897.6	8804.9	8704.9	8634.2	8524.5	8490.3	8241.5	8068.4	7885.4
5°	9914.7	9936.7	9912.3	9800.1	9624.5	9456.2	9275.7	9170.8	8753.7	8378.1	7995.2
7.5°	10170.8	10144.0	10190.3	10246.4	10222.0	10148.9	9958.6	9844.0	9346.4	8734.2	8153.7
10°	9370.8	9309.8	9483.0	9773.2	10078.1	10422.0	10373.3	10383.0	9924.5	9183.0	8361.0
12.5°	8309.8	8285.4	8414.7	8751.3	9348.9	10129.4	10317.2	10631.8	10453.7	9668.4	8597.6
15°	7844.0	7856.2	7934.2	8146.4	8575.7	9546.4	9997.6	10565.9	10926.9	10139.1	8858.6
17.5°	7914.7	7958.6	7956.2	8026.9	8287.9	9065.9	9592.8	10358.6	11292.8	10680.6	9158.6
20°	8395.2	8439.1	8373.2	8319.6	8407.4	8944.0	9380.6	10148.9	11539.1	11226.9	9475.7
22.5°	9114.7	9165.9	9009.8	8856.2	8800.1	9144.0	9461.1	10063.5	11726.9	11726.9	9758.6
25°	9985.4	10056.2	9814.7	9541.5	9385.4	9565.9	9805.0	10256.2	11919.6	12175.7	9951.3
27.5°	10958.6	10961.1	10753.7	10446.4	10153.7	10175.7	10319.6	10690.3	12131.8	12658.6	10102.5
30°	12053.8	12061.1	11785.5	11417.2	11048.9	10948.9	11070.8	11351.3	12573.3	13266.0	10312.3
32.5°	13468.4	13502.5	13107.4	12566.0	12087.9	11900.1	11970.8	12266.0	13275.7	14026.9	10626.9
35°	15380.6	15417.2	14834.3	14119.6	13358.6	13075.7	13146.4	13444.0	14292.8	15107.4	11129.4
37.5°	17268.4	17317.2	16727.0	16061.1	15017.2	14548.9	14622.1	14905.0	15819.6	16600.1	11934.2
40°	18573.3	18639.2	18456.2	18007.5	17039.2	16424.5	16512.3	16614.8	17500.1	18385.5	12978.2
42.5°	19261.1	19353.8	19431.9	19661.1	19151.4	18636.7	18488.0	18495.3	19209.9	20205.0	14063.5
45°	19302.6	19392.8	19792.8	20678.2	21066.0	20958.7	20688.0	20505.0	20514.8	21417.2	14741.6
47.5°	17961.1	18129.4	18878.2	20612.4	22070.9	22961.2	22824.6	22390.4	21063.6	21497.7	14668.4
50°	14783.0	14948.9	16309.9	18805.0	21339.2	23761.2	24324.6	23741.7	20705.0	20495.3	13914.7
52.5°	10736.7	10753.7	11636.7	14551.3	18373.3	22285.5	23612.4	23556.3	20158.7	19280.6	12885.5
55°	5100.0	5039.1	6031.8	8212.3	12707.4	18024.5	20261.1	20895.3	19383.1	18402.6	12087.9
57.5°	1485.4	1514.6	1956.1	3204.9	6356.1	11519.6	13875.7	15056.2	15909.9	15129.4	9375.7
60°	665.9	668.3	743.9	975.6	2117.1	5358.6	7173.2	8634.2	9512.3	8814.7	4651.3
62.5°	482.9	485.4	514.6	551.2	719.5	1814.6	2690.3	3585.4	3651.2	2390.3	1178.1
65°	402.4	402.4	407.3	407.3	431.7	648.8	817.1	1053.7	887.8	658.5	461.0
67.5°	324.4	326.8	331.7	331.7	324.4	324.4	351.2	385.4	412.2	509.8	424.4
70°	253.7	251.2	251.2	253.7	246.3	209.8	226.8	258.5	282.9	397.6	368.3
72.5°	197.6	200.0	197.6	187.8	170.7	124.4	134.1	168.3	180.5	248.8	248.8
75°	148.8	151.2	141.5	107.3	70.7	39.0	51.2	82.9	104.9	122.0	90.2
77.5°	19.5	19.5	14.6	14.6	12.2	14.6	14.6	19.5	29.3	29.3	22.0
80°	2.4	2.4	2.4	4.9	7.3	9.8	9.8	9.8	9.8	12.2	12.2
82.5°	2.4	2.4	2.4	2.4	7.3	7.3	9.8	9.8	9.8	9.8	9.8
85°	0.0	0.0	0.0	2.4	4.9	7.3	7.3	9.8	9.8	9.8	9.8
87.5°	0.0	0.0	0.0	2.4	4.9	7.3	7.3	7.3	9.8	9.8	9.8
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°	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5	7763.5
2.5°	7775.7	7634.2	7463.5	7346.4	7180.5	7070.8	6914.7	6809.8	6719.6	6648.8	6687.9
5°	7778.1	7553.7	7204.9	6907.4	6583.0	6285.4	5965.9	5714.7	5487.8	5385.4	5441.5
7.5°	7826.9	7504.9	6970.8	6441.5	5819.6	5204.9	4629.3	4161.0	3929.3	3819.5	3853.7
10°	7922.0	7483.0	6709.8	5831.8	4822.0	3983.0	3424.4	3107.3	2978.1	2909.8	2922.0
12.5°	8009.8	7468.4	6370.8	5029.3	3804.9	3090.3	2800.0	2756.1	2782.9	2785.4	2782.9
15°	8129.3	7441.5	5951.3	4204.9	3043.9	2670.8	2678.1	2741.5	2804.9	2824.4	2819.5
17.5°	8256.2	7400.1	5409.8	3414.7	2582.9	2548.8	2634.2	2719.5	2782.9	2792.7	2795.1
20°	8387.9	7314.7	4792.7	2787.8	2368.3	2456.1	2551.2	2614.7	2661.0	2675.6	2680.5
22.5°	8448.8	7134.2	4080.5	2339.0	2224.4	2341.5	2412.2	2495.1	2509.8	2456.1	2465.9
25°	8417.1	6829.3	3385.4	2036.6	2080.5	2197.6	2302.5	2261.0	2200.0	2161.0	2173.2
27.5°	8317.1	6424.4	2704.9	1814.6	1926.8	2075.6	2087.8	2041.5	2031.7	2000.0	2009.8
30°	8209.8	5958.6	2175.6	1636.6	1770.7	1926.8	1890.3	1907.3	1909.8	1873.2	1885.4
32.5°	8144.0	5470.8	1731.7	1517.1	1670.7	1700.0	1773.2	1807.3	1809.8	1724.4	1739.0
35°	8165.9	4990.3	1465.9	1419.5	1578.1	1570.7	1673.2	1692.7	1551.2	1434.2	1446.4
37.5°	8344.0	4546.4	1314.6	1343.9	1417.1	1473.2	1551.2	1422.0	1390.3	1336.6	1343.9
40°	8675.7	4168.3	1224.4	1297.6	1307.3	1397.6	1278.1	1295.1	1297.6	1263.4	1270.7
42.5°	9063.5	3853.7	1170.7	1270.7	1246.4	1261.0	1141.5	1175.6	1212.2	1197.6	1200.0
45°	9258.6	3546.4	1124.4	1178.1	1185.4	1046.3	1019.5	1056.1	1102.4	1109.8	1112.2
47.5°	9085.4	3253.7	1075.6	1043.9	1092.7	953.7	922.0	934.2	987.8	1017.1	1022.0
50°	8556.2	2917.1	1002.4	924.4	897.6	856.1	826.8	829.3	890.3	941.5	951.2
52.5°	7812.3	2565.9	882.9	782.9	722.0	753.7	761.0	746.3	802.4	853.7	863.4
55°	7090.3	2126.8	700.0	636.6	580.5	648.8	668.3	648.8	665.9	700.0	702.4
57.5°	4992.7	1202.4	536.6	526.8	480.5	556.1	587.8	558.5	529.3	551.2	556.1
60°	2314.7	629.3	412.2	412.2	400.0	478.1	531.7	490.2	434.1	443.9	451.2
62.5°	724.4	397.6	302.4	285.4	326.8	407.3	451.2	409.8	343.9	343.9	353.7
65°	409.8	341.5	239.0	219.5	265.9	326.8	353.7	309.8	251.2	246.3	246.3
67.5°	380.5	324.4	212.2	178.1	187.8	209.8	219.5	190.2	173.2	170.7	173.2
70°	314.6	270.7	170.7	122.0	114.6	112.2	117.1	109.8	104.9	107.3	114.6
72.5°	195.1	163.4	107.3	73.2	63.4	61.0	61.0	61.0	58.5	58.5	58.5
75°	70.7	61.0	48.8	36.6	31.7	29.3	29.3	31.7	29.3	26.8	24.4
77.5°	22.0	19.5	19.5	19.5	17.1	14.6	12.2	12.2	9.8	7.3	7.3
80°	12.2	12.2	12.2	12.2	9.8	9.8	7.3	4.9	2.4	2.4	0.0
82.5°	12.2	12.2	12.2	9.8	9.8	9.8	7.3	4.9	2.4	0.0	0.0
85°	9.8	9.8	9.8	9.8	9.8	9.8	7.3	4.9	2.4	0.0	0.0
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	7.3	4.9	2.4	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)