

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: P642175

Luminaire Tested: GWS-SA6C-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20977.8 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

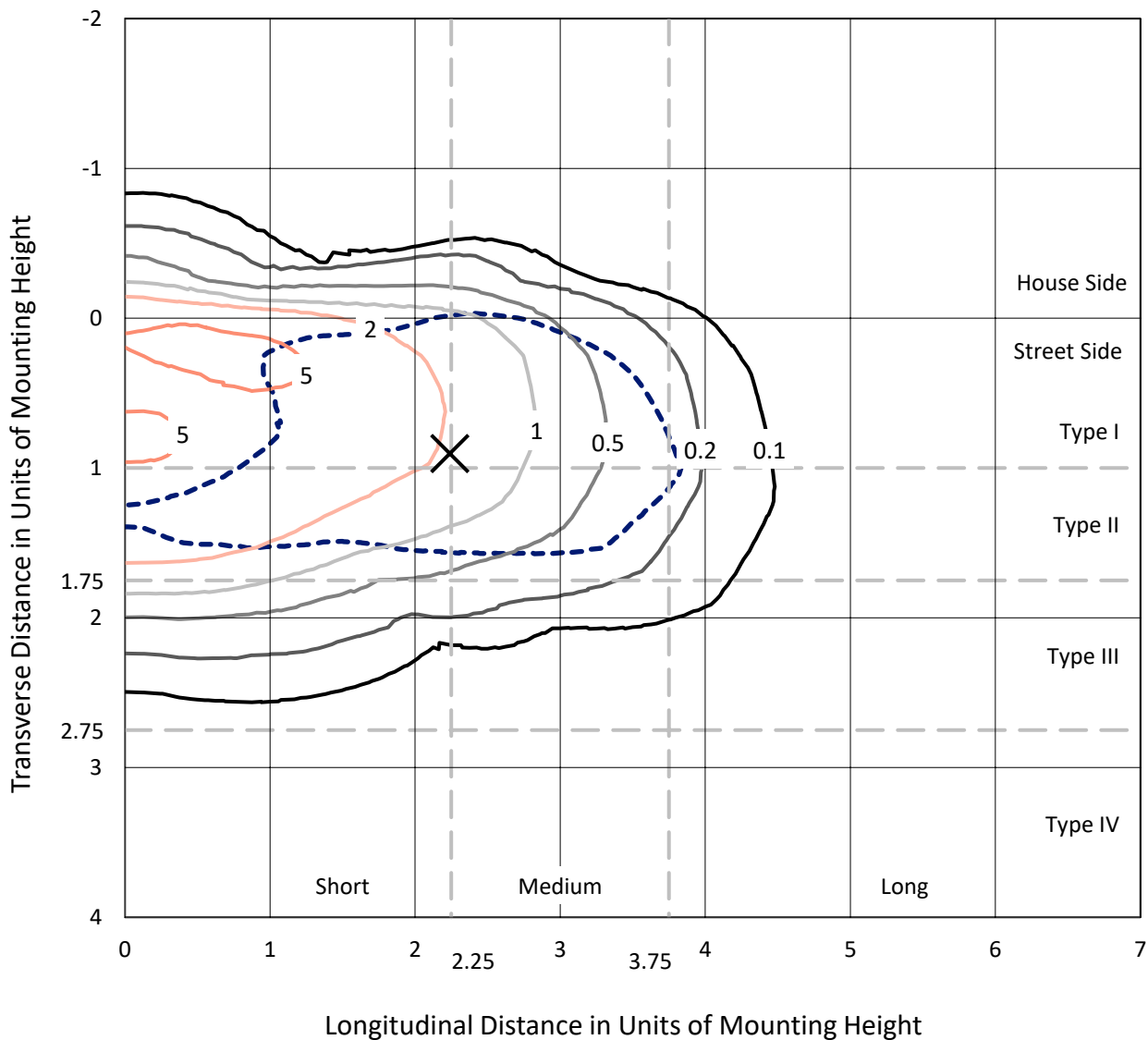
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

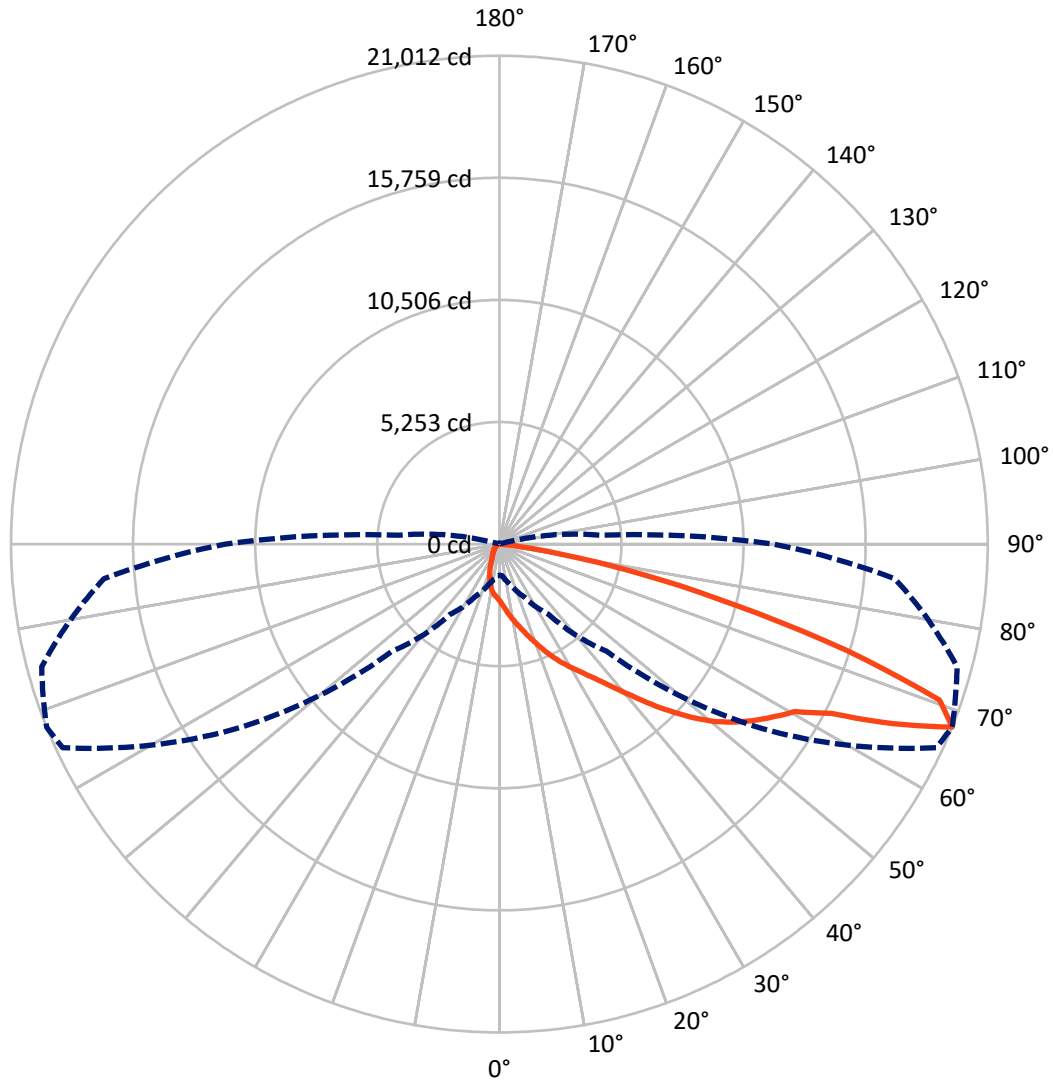
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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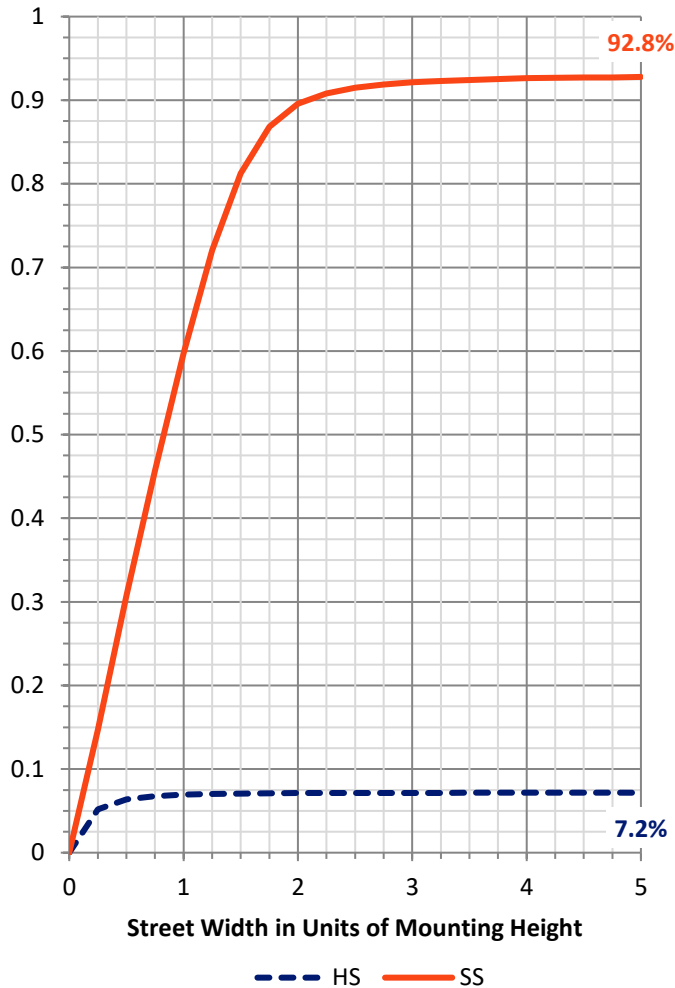
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.8	0.0	1514.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19462.9	0.0	19462.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	20977.8	0.0	20977.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.1
10°-20°	683.7	3.3
20°-30°	1175.0	5.6
30°-40°	2042.9	9.7
40°-50°	3564.7	17.0
50°-60°	5376.5	25.6
60°-70°	5391.2	25.7
70°-80°	2378.6	11.3
80°-90°	127.1	0.6
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°	20977.8	100.0
0°-180°	20977.8	100.0

Coefficient of Utilization



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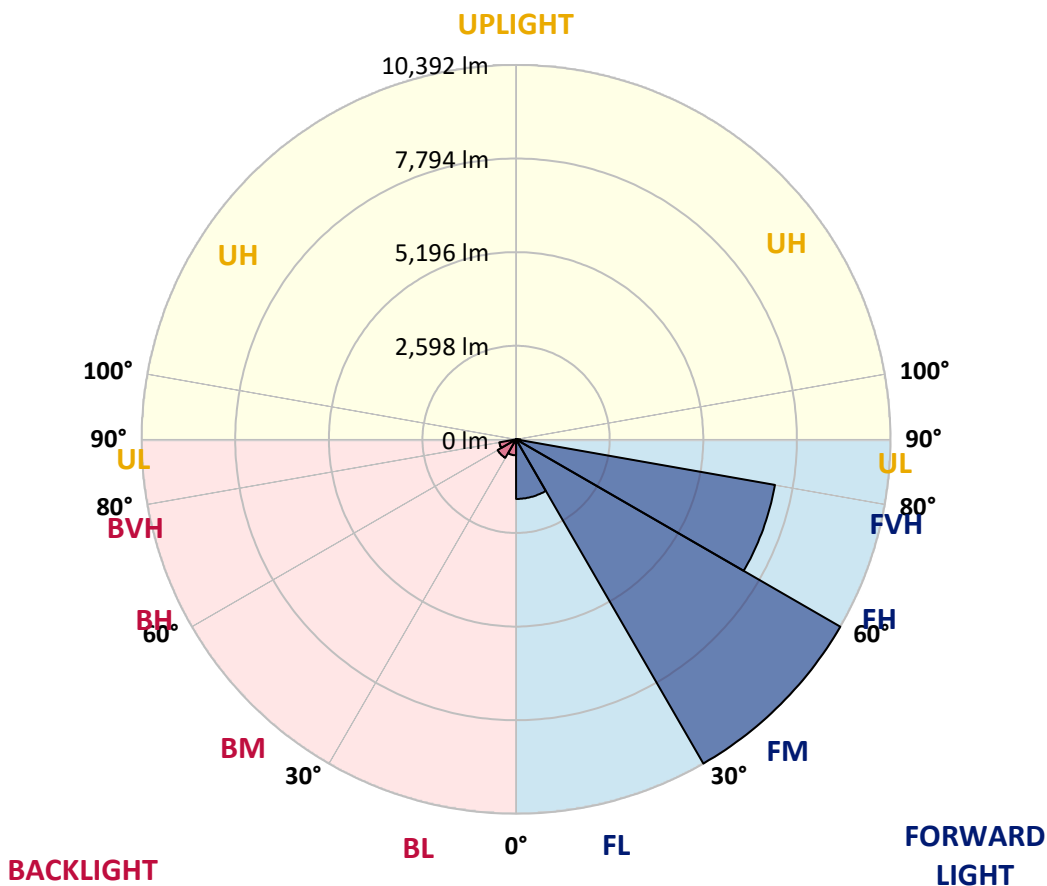
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.7	7.9			
FM (30°-60°)	10392.4	49.5			
FH (60°-80°)	7297.0	34.8			G3/7500
FVH (80°-90°)	119.9	0.6			G2/225
BL (0°-30°)	443.2	2.1	B1/500		
BM (30°-60°)	591.7	2.8	B1/1000		
BH (60°-80°)	472.8	2.3	B1/500		G1/500
BVH (80°-90°)	7.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2842.8	2860.9	2842.8	2846.8	2794.6	2770.5	2718.3	2646.1	2628.0	2581.8	2511.5
5°	3190.1	3206.2	3188.1	3184.1	3123.9	3079.7	2993.4	2868.9	2832.8	2742.4	2603.9
7.5°	3378.8	3388.9	3394.9	3404.9	3382.9	3346.7	3268.4	3113.8	3075.7	2929.1	2734.4
10°	3398.9	3407.0	3437.1	3497.3	3541.5	3563.5	3519.4	3376.8	3316.6	3174.1	2895.0
12.5°	3342.7	3354.8	3402.9	3503.3	3625.8	3738.2	3766.3	3641.8	3587.6	3404.9	3083.7
15°	3268.4	3278.5	3344.7	3481.2	3665.9	3872.7	3989.2	3935.0	3874.7	3684.0	3292.5
17.5°	3154.0	3168.0	3260.4	3445.1	3684.0	3979.1	4230.1	4248.2	4206.0	3999.2	3523.4
20°	3089.7	3099.8	3182.1	3372.8	3672.0	4057.4	4454.9	4625.6	4579.4	4362.6	3788.4
22.5°	3144.0	3152.0	3206.2	3354.8	3631.8	4101.6	4663.7	5003.0	4976.9	4752.1	4067.5
25°	3429.0	3455.1	3423.0	3449.1	3649.9	4125.7	4832.4	5380.5	5386.5	5159.6	4356.6
27.5°	4007.2	3973.1	3896.8	3766.3	3790.4	4189.9	4976.9	5735.8	5788.0	5557.1	4613.5
30°	4595.5	4575.4	4529.2	4326.5	4157.8	4332.5	5099.4	6099.2	6181.5	5948.6	4842.4
32.5°	5256.0	5276.1	5193.7	4950.8	4663.7	4621.6	5225.9	6444.5	6599.1	6392.3	5111.4
35°	6045.0	6051.0	5888.4	5619.4	5294.1	5099.4	5452.7	6826.0	7111.0	6958.5	5470.8
37.5°	6813.9	6850.0	6761.7	6338.1	6049.0	5693.6	5828.2	7315.8	7717.3	7657.1	5922.5
40°	7494.5	7550.7	7522.6	7113.0	6733.6	6434.5	6410.4	7890.0	8450.1	8518.4	6518.8
42.5°	8036.6	8072.7	8094.8	7803.7	7468.4	7299.8	7129.1	8556.5	9315.4	9594.5	7249.6
45°	8608.7	8620.8	8667.0	8470.2	8177.1	8191.1	7978.3	9365.6	10226.9	10787.0	8088.8
47.5°	9337.5	9377.7	9355.6	9148.8	8883.8	9042.4	8855.7	10198.8	11126.3	12059.9	8948.0
50°	10224.9	10267.0	10247.0	10006.0	9710.9	9777.2	9660.7	11007.9	11993.6	13260.4	9662.7
52.5°	10682.6	10716.7	10965.7	11074.1	10919.5	10497.9	10347.3	11897.2	12726.4	14248.2	10319.2
55°	10461.8	10485.9	11027.9	11485.7	12051.8	11630.2	11038.0	12583.8	13372.8	15019.1	10807.1
57.5°	9546.3	9676.8	10413.6	11188.5	12379.1	12748.5	12158.2	13330.7	13995.2	15555.1	11286.9
60°	7669.2	7663.1	8719.2	10110.4	11740.6	13055.6	13740.2	14340.5	14619.6	15966.7	11929.4
62.5°	4238.1	4276.3	5681.6	7514.6	9965.9	12260.6	14926.8	16085.2	16043.0	16685.4	12935.2
65°	2110.0	2186.3	2949.2	4304.4	6631.2	10132.5	15131.5	18747.3	18626.8	18377.9	15013.1
67.5°	1339.1	1369.2	1790.8	2501.5	3686.0	6512.8	13856.7	20732.8	21011.9	20385.5	17074.9
70°	867.3	917.5	1244.7	1710.5	2224.5	3356.8	10150.6	19445.9	20086.4	20164.7	15790.0
72.5°	471.8	507.9	795.0	1220.6	1606.1	1678.4	5701.7	14593.5	15623.4	17105.0	12353.0
75°	269.0	295.1	435.7	829.2	1178.5	1021.9	2527.6	9769.1	10425.6	12224.5	8851.7
77.5°	162.6	184.7	244.9	403.5	738.8	682.6	955.6	5946.6	6364.2	7293.7	4645.7
80°	74.3	88.3	154.6	222.8	403.5	323.2	365.4	2772.5	2862.9	2993.4	1537.8
82.5°	34.1	40.2	70.3	132.5	228.9	186.7	140.5	640.4	901.4	853.2	391.5
85°	4.0	4.0	26.1	54.2	64.2	48.2	58.2	144.5	182.7	257.0	112.4
87.5°	0.0	0.0	2.0	2.0	4.0	6.0	12.0	18.1	26.1	42.2	28.1
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°	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2479.4	2423.2	2373.0	2298.7	2248.5	2192.3	2154.2	2108.0	2089.9	2075.9	2055.8
5°	2535.6	2445.3	2322.8	2186.3	2073.9	1967.5	1869.1	1804.9	1748.6	1740.6	1712.5
7.5°	2628.0	2493.5	2286.7	2063.8	1873.1	1696.5	1557.9	1445.5	1389.3	1371.2	1339.1
10°	2750.5	2565.8	2232.5	1891.2	1616.1	1405.3	1248.7	1122.3	1033.9	1001.8	977.7
12.5°	2887.0	2632.0	2146.2	1678.4	1365.2	1124.3	925.5	791.0	734.8	714.7	696.6
15°	3043.6	2694.2	2009.6	1465.6	1120.3	827.1	686.6	628.4	604.3	598.3	592.3
17.5°	3194.1	2734.4	1847.0	1244.7	861.3	642.4	576.2	554.1	548.1	542.1	538.0
20°	3364.8	2762.5	1656.3	1035.9	668.5	544.1	511.9	495.9	483.8	471.8	469.8
22.5°	3539.5	2762.5	1449.5	831.2	560.1	487.9	451.7	421.6	399.5	387.5	383.5
25°	3706.1	2724.4	1244.7	664.5	493.9	433.6	387.5	353.3	323.2	309.2	305.2
27.5°	3824.5	2626.0	1066.1	562.1	447.7	385.5	329.3	291.1	267.0	253.0	251.0
30°	3898.8	2479.4	901.4	501.9	407.5	335.3	279.1	246.9	228.9	218.8	214.8
32.5°	3955.0	2298.7	754.9	459.7	369.4	291.1	242.9	216.8	200.8	192.7	190.7
35°	4067.5	2128.1	646.5	421.6	329.3	255.0	212.8	192.7	180.7	170.6	168.6
37.5°	4224.1	1985.5	560.1	387.5	291.1	226.9	192.7	174.7	164.6	154.6	152.6
40°	4454.9	1895.2	495.9	353.3	257.0	204.8	176.7	160.6	146.6	136.5	134.5
42.5°	4810.3	1853.0	453.7	319.2	226.9	184.7	162.6	142.5	128.5	118.5	116.4
45°	5233.9	1875.1	417.6	285.1	206.8	170.6	144.5	124.5	110.4	100.4	98.4
47.5°	5687.6	1953.4	387.5	253.0	186.7	156.6	128.5	106.4	94.4	84.3	82.3
50°	6161.4	2081.9	361.4	222.8	170.6	140.5	110.4	92.4	80.3	72.3	70.3
52.5°	6573.0	2256.6	335.3	200.8	156.6	124.5	96.4	80.3	68.3	60.2	58.2
55°	6966.5	2421.2	315.2	180.7	140.5	108.4	84.3	68.3	58.2	50.2	48.2
57.5°	7394.1	2595.9	291.1	162.6	126.5	96.4	74.3	58.2	50.2	42.2	40.2
60°	8016.5	2854.9	255.0	148.6	110.4	84.3	64.2	52.2	44.2	34.1	32.1
62.5°	8913.9	3326.6	214.8	128.5	94.4	72.3	54.2	44.2	36.1	28.1	24.1
65°	10592.3	4129.7	176.7	106.4	76.3	60.2	46.2	36.1	28.1	20.1	18.1
67.5°	11800.9	4338.5	142.5	86.3	62.2	46.2	38.1	28.1	20.1	14.1	12.0
70°	10317.2	3115.8	110.4	70.3	52.2	36.1	30.1	22.1	14.1	10.0	8.0
72.5°	7773.6	2035.7	82.3	54.2	40.2	30.1	22.1	18.1	12.0	8.0	6.0
75°	5478.8	1176.5	60.2	40.2	28.1	22.1	18.1	14.1	10.0	6.0	6.0
77.5°	2808.7	485.8	42.2	28.1	20.1	14.1	12.0	8.0	8.0	6.0	4.0
80°	853.2	160.6	24.1	18.1	14.1	10.0	6.0	6.0	6.0	4.0	2.0
82.5°	194.7	52.2	14.1	14.1	10.0	8.0	6.0	2.0	2.0	0.0	0.0
85°	50.2	16.1	12.0	10.0	10.0	8.0	4.0	2.0	0.0	0.0	0.0
87.5°	18.1	10.0	10.0	10.0	8.0	6.0	4.0	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)