

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: P636977

Luminaire Tested: GWS-SA4B-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636977
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-SA4B-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8659.8 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

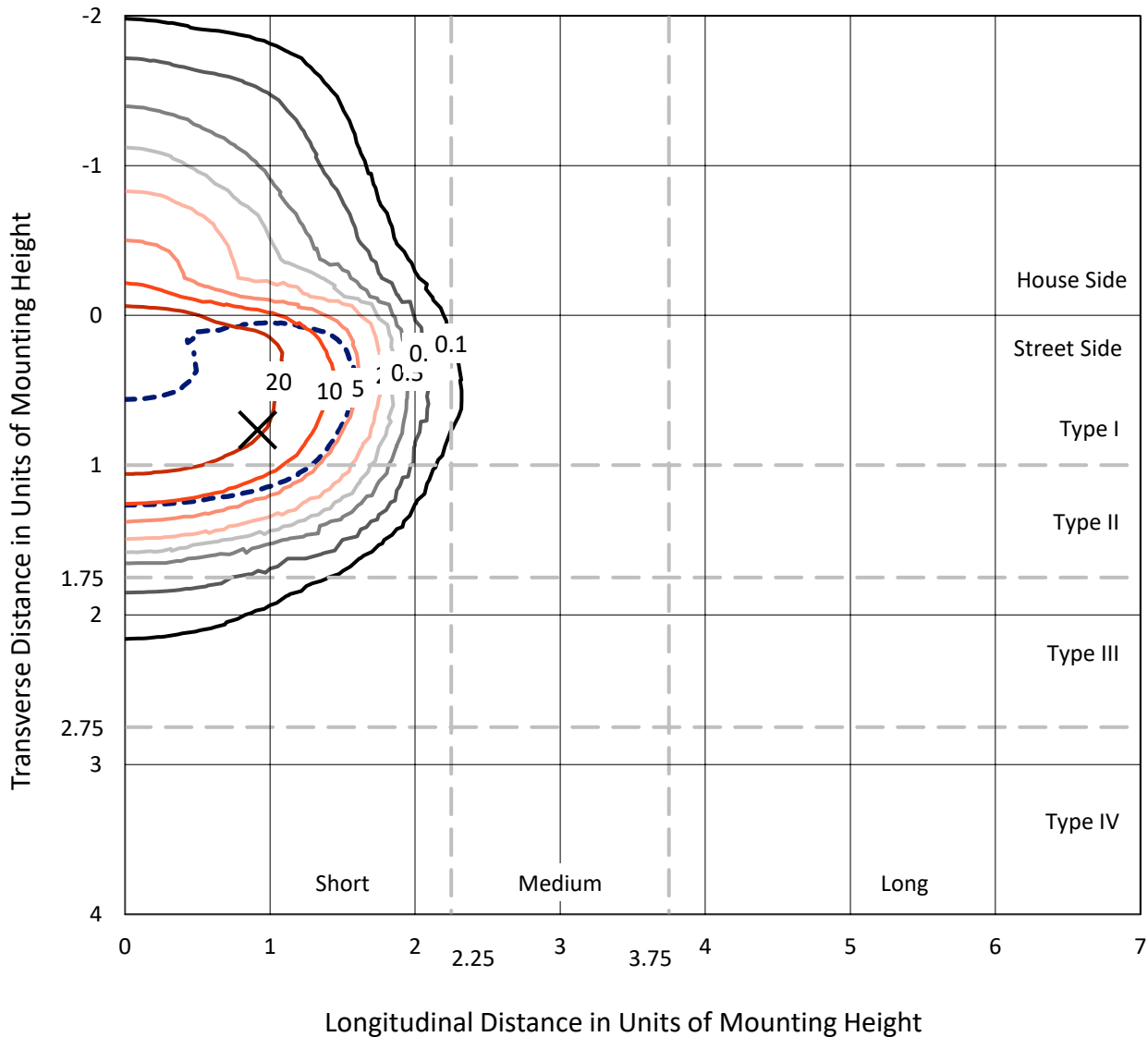
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

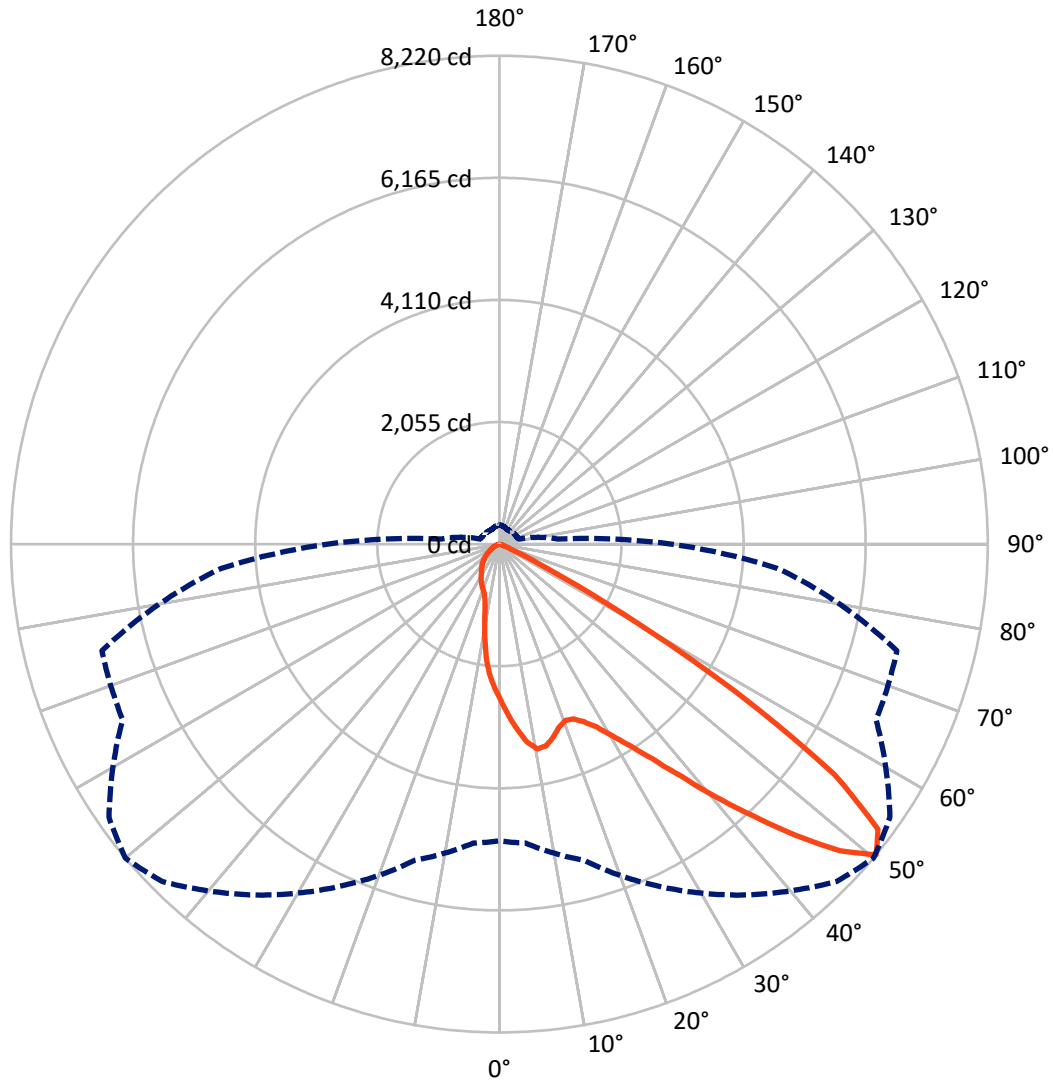
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.6 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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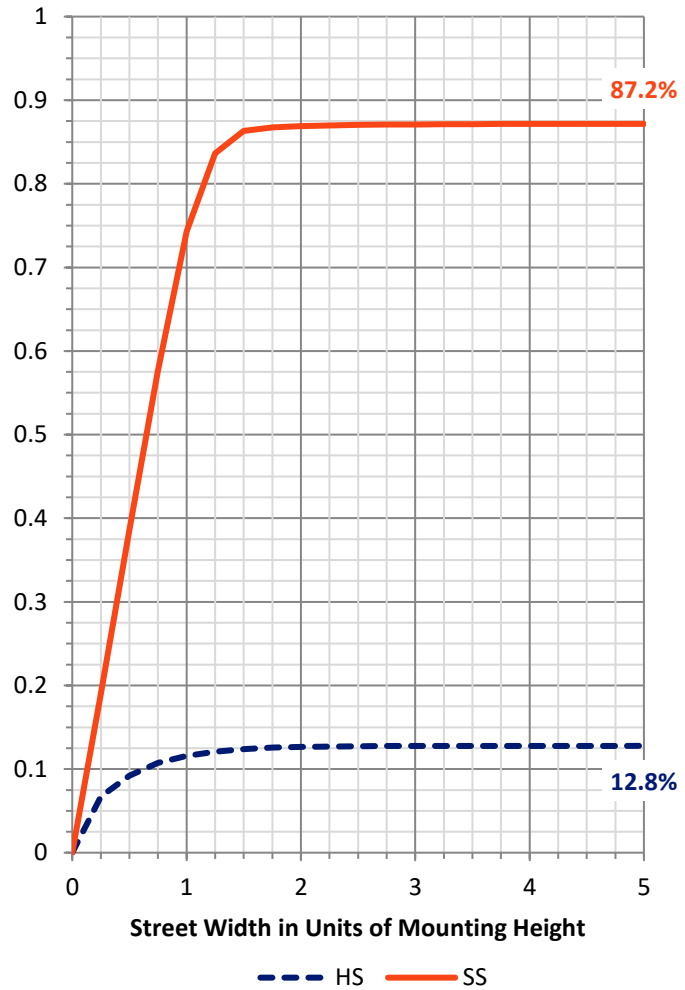
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.6	0.0	1112.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7547.1	0.0	7547.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	8659.8	0.0	8659.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	2.8
10°-20°	627.9	7.3
20°-30°	1036.3	12.0
30°-40°	1710.1	19.7
40°-50°	2705.8	31.2
50°-60°	2048.6	23.7
60°-70°	256.4	3.0
70°-80°	29.0	0.3
80°-90°	2.2	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°	8659.8	100.0
0°-180°	8659.8	100.0

Coefficient of Utilization



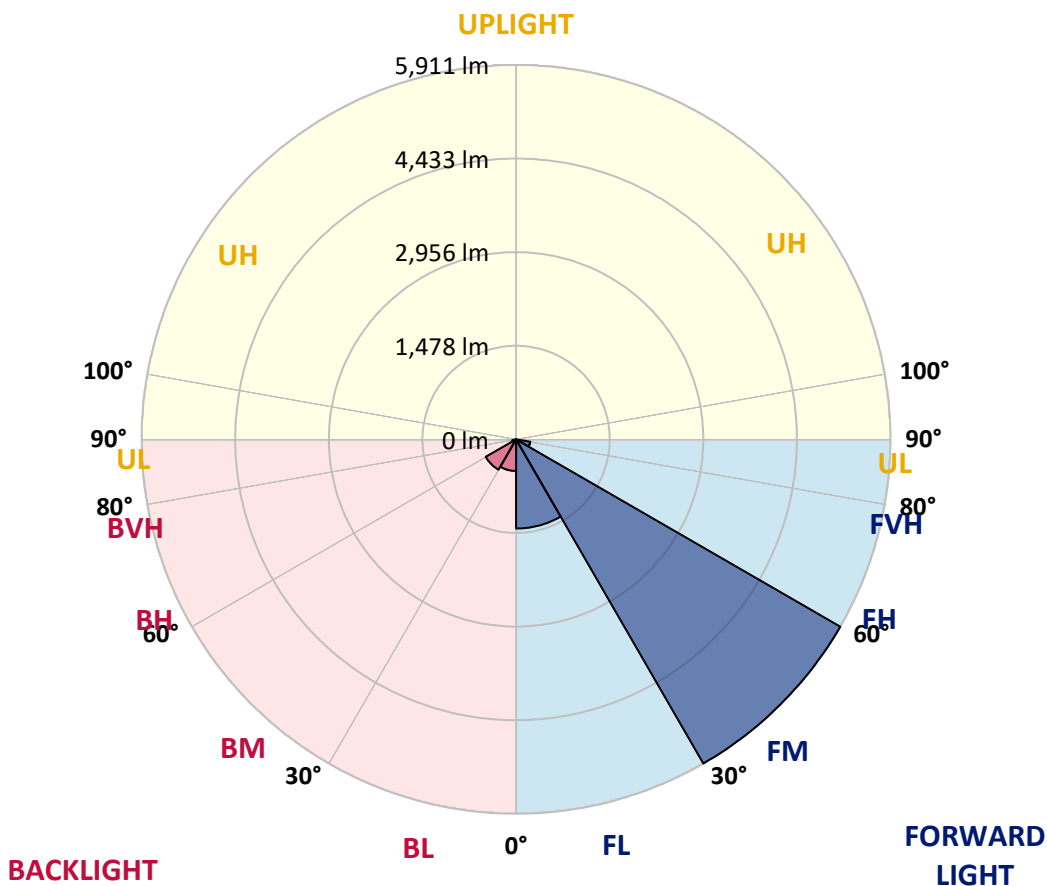
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.2	16.3			
FM (30°-60°)	5911.2	68.3			
FH (60°-80°)	226.7	2.6			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	499.4	5.8	B1/500		
BM (30°-60°)	553.3	6.4	B1/1000		
BH (60°-80°)	58.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.2	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6
2.5°	2989.5	3013.4	3006.8	2975.5	2941.7	2917.8	2880.7	2869.2	2785.1	2726.6	2664.8
5°	3350.6	3358.0	3349.7	3311.8	3252.5	3195.6	3134.6	3099.2	2958.2	2831.3	2701.9
7.5°	3437.1	3428.0	3443.7	3462.7	3454.4	3429.7	3365.4	3326.7	3158.5	2951.6	2755.5
10°	3166.8	3146.1	3204.7	3302.8	3405.8	3522.0	3505.5	3508.8	3353.9	3103.3	2825.5
12.5°	2808.2	2800.0	2843.6	2957.4	3159.3	3423.1	3486.6	3592.9	3532.7	3267.3	2905.5
15°	2650.8	2654.9	2681.3	2753.0	2898.0	3226.1	3378.6	3570.6	3692.6	3426.4	2993.7
17.5°	2674.7	2689.5	2688.7	2712.6	2800.8	3063.7	3241.8	3500.6	3816.3	3609.4	3095.0
20°	2837.1	2851.9	2829.6	2811.5	2841.2	3022.5	3170.1	3429.7	3899.5	3794.0	3202.2
22.5°	3080.2	3097.5	3044.8	2992.8	2973.9	3090.1	3197.3	3400.8	3963.0	3963.0	3297.8
25°	3374.5	3398.4	3316.8	3224.5	3171.7	3232.7	3313.5	3466.0	4028.1	4114.6	3362.9
27.5°	3703.3	3704.2	3634.1	3530.2	3431.3	3438.8	3487.4	3612.7	4099.8	4277.8	3414.0
30°	4073.4	4075.9	3982.8	3858.3	3733.8	3700.0	3741.3	3836.0	4249.0	4483.1	3484.9
32.5°	4551.5	4563.0	4429.5	4246.5	4085.0	4021.5	4045.4	4145.1	4486.4	4740.2	3591.2
35°	5197.7	5210.1	5013.1	4771.6	4514.4	4418.8	4442.7	4543.2	4830.1	5105.4	3761.0
37.5°	5835.7	5852.1	5652.7	5427.7	5074.9	4916.6	4941.4	5037.0	5346.1	5609.8	4033.0
40°	6276.6	6298.9	6237.1	6085.4	5758.2	5550.5	5580.1	5614.8	5914.0	6213.2	4385.8
42.5°	6509.1	6540.4	6566.8	6644.2	6472.0	6298.1	6247.8	6250.3	6491.8	6828.1	4752.6
45°	6523.1	6553.6	6688.8	6988.0	7119.0	7082.7	6991.3	6929.4	6932.7	7237.7	4981.7
47.5°	6069.7	6126.6	6379.7	6965.7	7458.6	7759.5	7713.3	7566.6	7118.2	7264.9	4957.0
50°	4995.8	5051.8	5511.7	6354.9	7211.3	8029.8	8220.2	8023.2	6997.0	6926.1	4702.3
52.5°	3628.3	3634.1	3932.5	4917.5	6209.0	7531.1	7979.5	7960.6	6812.4	6515.7	4354.5
55°	1723.5	1702.9	2038.4	2775.2	4294.3	6091.2	6847.0	7061.3	6550.3	6218.9	4085.0
57.5°	502.0	511.9	661.0	1083.1	2148.0	3892.9	4689.1	5088.1	5376.6	5112.8	3168.4
60°	225.0	225.8	251.4	329.7	715.4	1810.9	2424.1	2917.8	3214.6	2978.8	1571.8
62.5°	163.2	164.0	173.9	186.3	243.2	613.2	909.1	1211.6	1233.9	807.8	398.1
65°	136.0	136.0	137.6	137.6	145.9	219.2	276.1	356.1	300.0	222.5	155.8
67.5°	109.6	110.4	112.1	112.1	109.6	109.6	118.7	130.2	139.3	172.3	143.4
70°	85.7	84.9	84.9	85.7	83.2	70.9	76.7	87.4	95.6	134.4	124.5
72.5°	66.8	67.6	66.8	63.5	57.7	42.0	45.3	56.9	61.0	84.1	84.1
75°	50.3	51.1	47.8	36.3	23.9	13.2	17.3	28.0	35.4	41.2	30.5
77.5°	6.6	6.6	4.9	4.9	4.1	4.9	4.9	6.6	9.9	9.9	7.4
80°	0.8	0.8	0.8	1.6	2.5	3.3	3.3	3.3	3.3	4.1	4.1
82.5°	0.8	0.8	0.8	0.8	2.5	2.5	3.3	3.3	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.8	1.6	2.5	2.5	3.3	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.8	1.6	2.5	2.5	2.5	3.3	3.3	3.3
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°	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6	2623.6
2.5°	2627.7	2579.9	2522.2	2482.6	2426.6	2389.5	2336.7	2301.3	2270.8	2246.9	2260.1
5°	2628.5	2552.7	2434.8	2334.3	2224.6	2124.1	2016.1	1931.2	1854.6	1819.9	1838.9
7.5°	2645.0	2536.2	2355.7	2176.8	1966.7	1758.9	1564.4	1406.2	1327.9	1290.8	1302.3
10°	2677.2	2528.8	2267.5	1970.8	1629.5	1346.0	1157.2	1050.1	1006.4	983.3	987.4
12.5°	2706.8	2523.8	2152.9	1699.6	1285.8	1044.3	946.2	931.4	940.5	941.3	940.5
15°	2747.2	2514.8	2011.2	1421.0	1028.7	902.5	905.0	926.5	947.9	954.5	952.8
17.5°	2790.1	2500.8	1828.2	1153.9	872.9	861.3	890.2	919.0	940.5	943.8	944.6
20°	2834.6	2471.9	1619.6	942.1	800.3	830.0	862.2	883.6	899.3	904.2	905.8
22.5°	2855.2	2410.9	1379.0	790.5	751.7	791.3	815.2	843.2	848.1	830.0	833.3
25°	2844.5	2307.9	1144.1	688.2	703.1	742.6	778.1	764.1	743.5	730.3	734.4
27.5°	2810.7	2171.1	914.1	613.2	651.2	701.4	705.6	689.9	686.6	675.9	679.2
30°	2774.4	2013.6	735.2	553.1	598.4	651.2	638.8	644.6	645.4	633.0	637.1
32.5°	2752.2	1848.8	585.2	512.7	564.6	574.5	599.2	610.8	611.6	582.7	587.7
35°	2759.6	1686.4	495.4	479.7	533.3	530.8	565.4	572.0	524.2	484.7	488.8
37.5°	2819.7	1536.4	444.3	454.2	478.9	497.8	524.2	480.5	469.8	451.7	454.2
40°	2931.8	1408.6	413.8	438.5	441.8	472.3	431.9	437.7	438.5	427.0	429.4
42.5°	3062.9	1302.3	395.6	429.4	421.2	426.1	385.7	397.3	409.7	404.7	405.5
45°	3128.8	1198.5	380.0	398.1	400.6	353.6	344.5	356.9	372.6	375.0	375.9
47.5°	3070.3	1099.5	363.5	352.8	369.3	322.3	311.6	315.7	333.8	343.7	345.4
50°	2891.5	985.8	338.8	312.4	303.3	289.3	279.4	280.2	300.8	318.2	321.5
52.5°	2640.1	867.1	298.4	264.6	244.0	254.7	257.2	252.2	271.2	288.5	291.8
55°	2396.1	718.7	236.6	215.1	196.2	219.2	225.8	219.2	225.0	236.6	237.4
57.5°	1687.2	406.4	181.3	178.0	162.4	187.9	198.6	188.8	178.9	186.3	187.9
60°	782.2	212.7	139.3	139.3	135.2	161.6	179.7	165.7	146.7	150.0	152.5
62.5°	244.8	134.4	102.2	96.4	110.4	137.6	152.5	138.5	116.2	116.2	119.5
65°	138.5	115.4	80.8	74.2	89.8	110.4	119.5	104.7	84.9	83.2	83.2
67.5°	128.6	109.6	71.7	60.2	63.5	70.9	74.2	64.3	58.5	57.7	58.5
70°	106.3	91.5	57.7	41.2	38.7	37.9	39.6	37.1	35.4	36.3	38.7
72.5°	65.9	55.2	36.3	24.7	21.4	20.6	20.6	20.6	19.8	19.8	19.8
75°	23.9	20.6	16.5	12.4	10.7	9.9	9.9	10.7	9.9	9.1	8.2
77.5°	7.4	6.6	6.6	6.6	5.8	4.9	4.1	4.1	3.3	2.5	2.5
80°	4.1	4.1	4.1	4.1	3.3	3.3	2.5	1.6	0.8	0.8	0.0
82.5°	4.1	4.1	4.1	3.3	3.3	3.3	2.5	1.6	0.8	0.0	0.0
85°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.6	0.8	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.6	0.8	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)