

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: P632742

Luminaire Tested: GWS-SA2D-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632742
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-SA2D-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8673.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

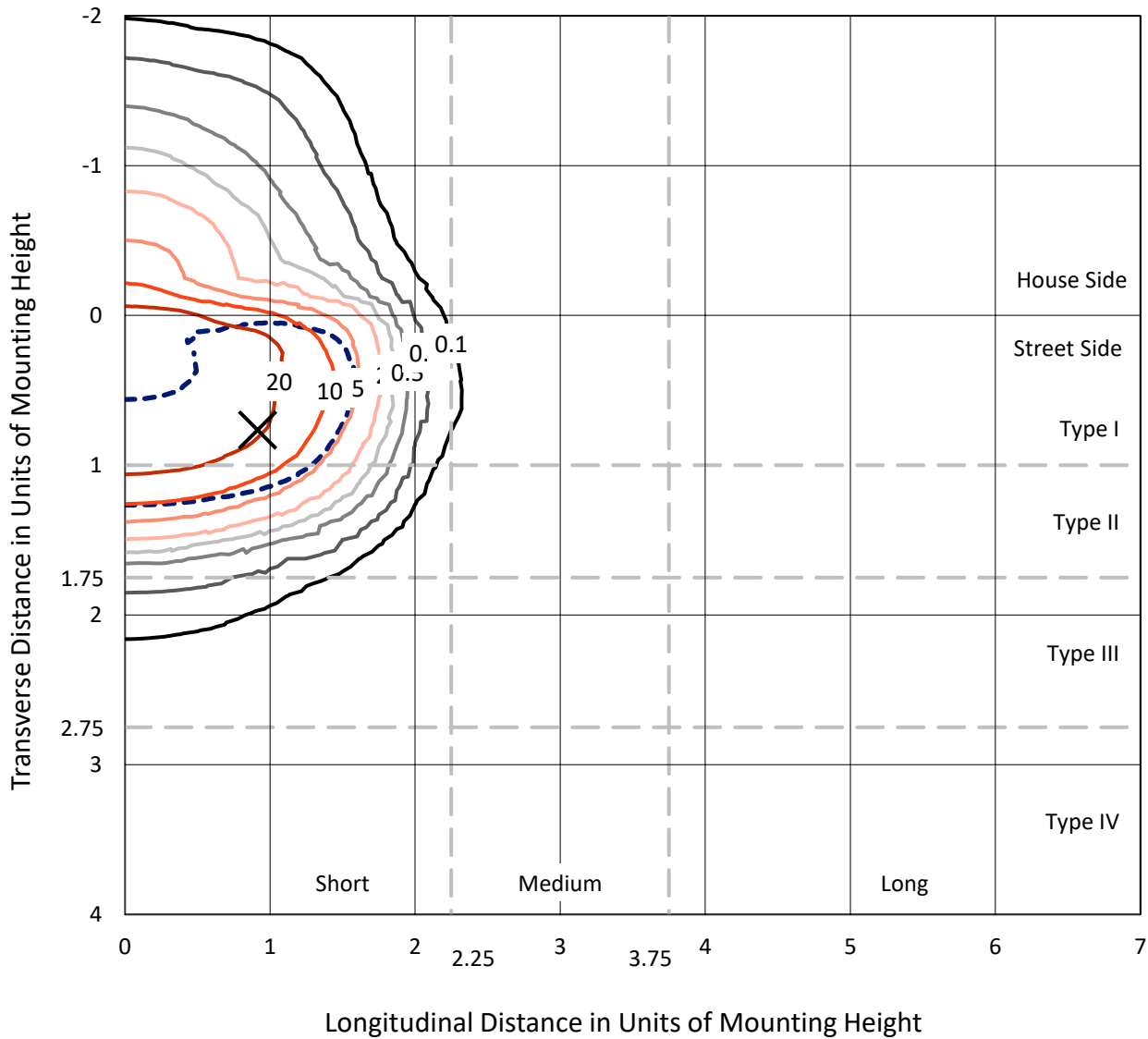
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

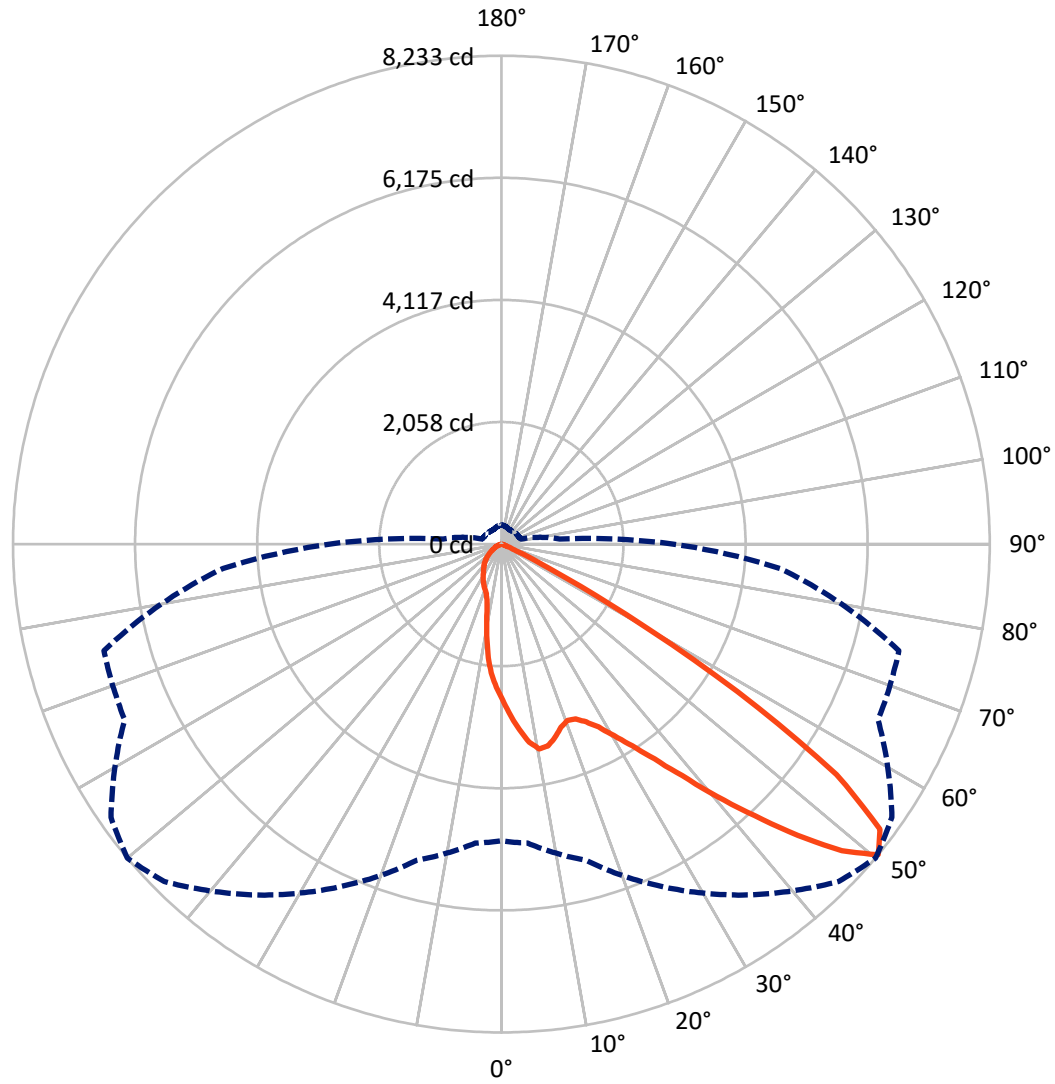
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.7 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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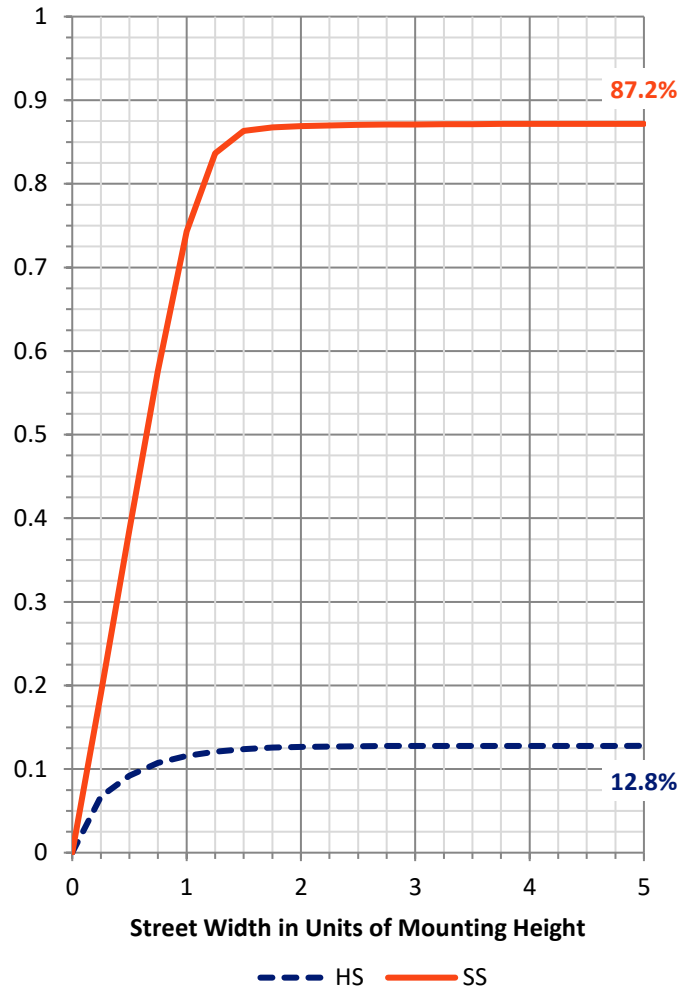
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1114.4	0.0	1114.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7558.9	0.0	7558.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	8673.3	0.0	8673.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	2.8
10°-20°	628.9	7.3
20°-30°	1037.9	12.0
30°-40°	1712.8	19.7
40°-50°	2710.0	31.2
50°-60°	2051.8	23.7
60°-70°	256.8	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°	8673.3	100.0
0°-180°	8673.3	100.0

Coefficient of Utilization



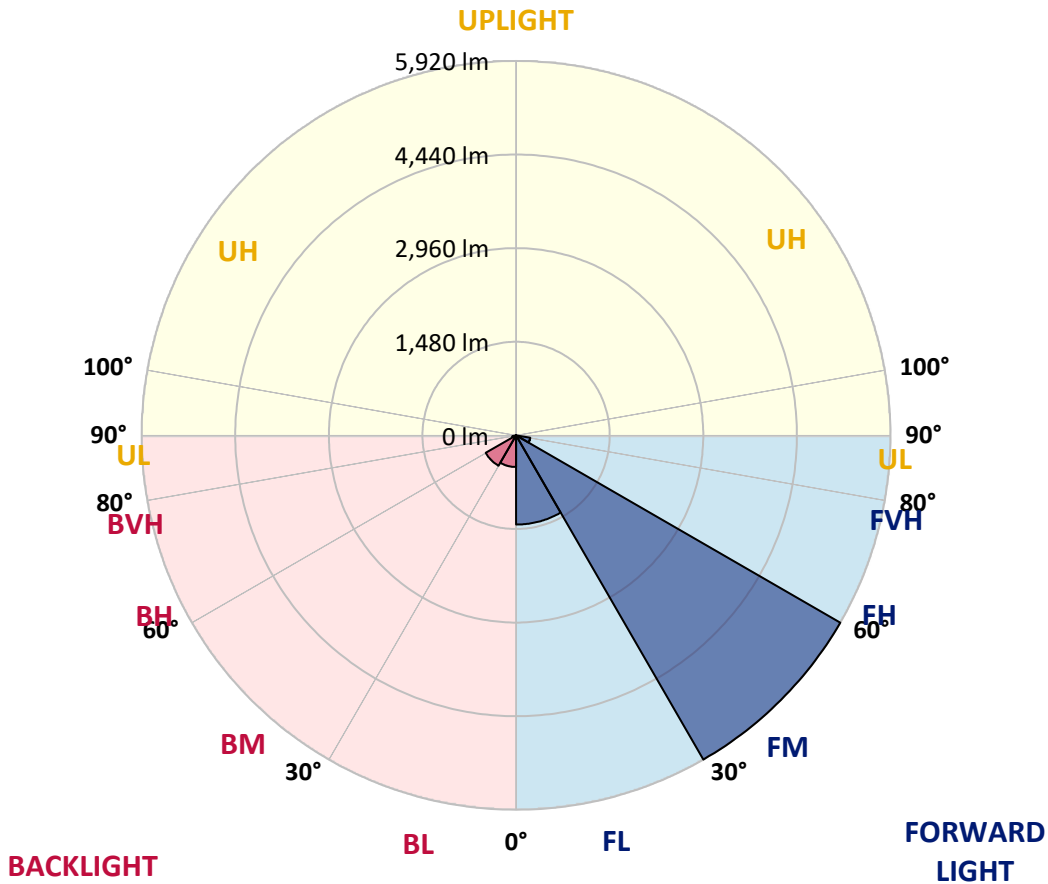
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.4	16.3			
FM (30°-60°)	5920.4	68.3			
FH (60°-80°)	227.0	2.6			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	500.2	5.8	B2/1000		
BM (30°-60°)	554.2	6.4	B1/1000		
BH (60°-80°)	58.8	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: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7
2.5°	2994.2	3018.1	3011.5	2980.2	2946.3	2922.4	2885.2	2873.7	2789.5	2730.9	2668.9
5°	3355.8	3363.2	3355.0	3317.0	3257.5	3200.6	3139.5	3104.0	2962.8	2835.7	2706.1
7.5°	3442.5	3433.4	3449.1	3468.1	3459.8	3435.0	3370.6	3331.8	3163.4	2956.2	2759.8
10°	3171.7	3151.1	3209.7	3307.9	3411.1	3527.5	3511.0	3514.3	3359.1	3108.1	2829.9
12.5°	2812.6	2804.3	2848.1	2962.0	3164.3	3428.4	3492.0	3598.5	3538.2	3272.4	2910.0
15°	2654.9	2659.0	2685.5	2757.3	2902.6	3231.1	3383.9	3576.2	3698.4	3431.7	2998.3
17.5°	2678.8	2693.7	2692.9	2716.8	2805.2	3068.5	3246.8	3506.0	3822.2	3615.0	3099.9
20°	2841.5	2856.3	2834.0	2815.9	2845.6	3027.2	3175.0	3435.0	3905.6	3799.9	3207.2
22.5°	3085.0	3102.3	3049.5	2997.5	2978.5	3094.9	3202.2	3406.1	3969.2	3969.2	3302.9
25°	3379.7	3403.7	3321.9	3229.5	3176.6	3237.7	3318.6	3471.4	4034.4	4121.1	3368.2
27.5°	3709.1	3709.9	3639.8	3535.7	3436.7	3444.1	3492.8	3618.3	4106.2	4284.5	3419.3
30°	4079.8	4082.3	3989.0	3864.3	3739.7	3705.8	3747.1	3842.0	4255.6	4490.1	3490.3
32.5°	4558.6	4570.1	4436.4	4253.1	4091.3	4027.8	4051.7	4151.6	4493.4	4747.6	3596.8
35°	5205.8	5218.2	5020.9	4779.0	4521.4	4425.7	4449.6	4550.3	4837.6	5113.3	3766.9
37.5°	5844.8	5861.3	5661.5	5436.1	5082.8	4924.3	4949.1	5044.8	5354.4	5618.6	4039.3
40°	6286.4	6308.7	6246.8	6094.9	5767.2	5559.1	5588.8	5623.5	5923.2	6222.9	4392.7
42.5°	6519.2	6550.6	6577.0	6654.6	6482.1	6307.9	6257.5	6260.0	6501.9	6838.7	4760.0
45°	6533.3	6563.8	6699.2	6998.9	7130.1	7093.8	7002.2	6940.2	6943.5	7249.0	4989.5
47.5°	6079.2	6136.2	6389.6	6976.6	7470.2	7771.5	7725.3	7578.4	7129.3	7276.2	4964.7
50°	5003.5	5059.7	5520.3	6364.8	7222.6	8042.3	8233.0	8035.7	7007.9	6936.9	4709.7
52.5°	3634.0	3639.8	3938.6	4925.1	6218.7	7542.9	7992.0	7973.0	6823.0	6525.8	4361.3
55°	1726.2	1705.5	2041.5	2779.6	4301.0	6100.7	6857.7	7072.3	6560.5	6228.6	4091.3
57.5°	502.7	512.7	662.1	1084.7	2151.3	3899.0	4696.4	5096.0	5384.9	5120.8	3173.3
60°	225.4	226.2	251.8	330.2	716.6	1813.7	2427.9	2922.4	3219.6	2983.5	1574.3
62.5°	163.5	164.3	174.2	186.6	243.5	614.2	910.6	1213.5	1235.8	809.0	398.7
65°	136.2	136.2	137.9	137.9	146.1	219.6	276.6	356.6	300.5	222.9	156.0
67.5°	109.8	110.6	112.3	112.3	109.8	109.8	118.9	130.4	139.5	172.5	143.6
70°	85.9	85.0	85.0	85.9	83.4	71.0	76.8	87.5	95.8	134.6	124.7
72.5°	66.9	67.7	66.9	63.6	57.8	42.1	45.4	57.0	61.1	84.2	84.2
75°	50.4	51.2	47.9	36.3	23.9	13.2	17.3	28.1	35.5	41.3	30.5
77.5°	6.6	6.6	5.0	5.0	4.1	5.0	5.0	6.6	9.9	9.9	7.4
80°	0.8	0.8	0.8	1.7	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	1.7	2.5	2.5	3.3	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.8	1.7	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°	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7	2627.7
2.5°	2631.8	2583.9	2526.1	2486.5	2430.4	2393.2	2340.4	2304.9	2274.3	2250.4	2263.6
5°	2632.6	2556.7	2438.6	2337.9	2228.1	2127.4	2019.2	1934.2	1857.4	1822.8	1841.8
7.5°	2649.1	2540.2	2359.4	2180.2	1969.7	1761.7	1566.9	1408.4	1329.9	1292.8	1304.3
10°	2681.3	2532.7	2271.0	1973.8	1632.1	1348.1	1159.0	1051.7	1008.0	984.9	989.0
12.5°	2711.0	2527.8	2156.3	1702.2	1287.8	1045.9	947.7	932.8	941.9	942.8	941.9
15°	2751.5	2518.7	2014.3	1423.2	1030.3	904.0	906.4	927.9	949.4	956.0	954.3
17.5°	2794.4	2504.7	1831.0	1155.7	874.2	862.7	891.6	920.5	941.9	945.2	946.1
20°	2839.0	2475.8	1622.2	943.6	801.6	831.3	863.5	885.0	900.7	905.6	907.3
22.5°	2859.6	2414.7	1381.1	791.7	752.9	792.5	816.5	844.5	849.5	831.3	834.6
25°	2848.9	2311.5	1145.8	689.3	704.2	743.8	779.3	765.3	744.6	731.4	735.5
27.5°	2815.1	2174.4	915.5	614.2	652.2	702.5	706.7	691.0	687.7	676.9	680.2
30°	2778.7	2016.8	736.4	553.9	599.3	652.2	639.8	645.6	646.4	634.0	638.1
32.5°	2756.4	1851.7	586.1	513.5	565.5	575.4	600.2	611.7	612.5	583.7	588.6
35°	2763.9	1689.0	496.1	480.5	534.1	531.6	566.3	572.9	525.0	485.4	489.5
37.5°	2824.1	1538.8	445.0	454.9	479.6	498.6	525.0	481.3	470.6	452.4	454.9
40°	2936.4	1410.8	414.4	439.2	442.5	473.0	432.6	438.4	439.2	427.6	430.1
42.5°	3067.7	1304.3	396.3	430.1	421.8	426.8	386.3	397.9	410.3	405.3	406.2
45°	3133.7	1200.3	380.6	398.7	401.2	354.2	345.1	357.5	373.1	375.6	376.4
47.5°	3075.1	1101.3	364.1	353.3	369.8	322.8	312.1	316.2	334.3	344.2	345.9
50°	2896.0	987.3	339.3	312.9	303.8	289.8	279.9	280.7	301.3	318.7	322.0
52.5°	2644.2	868.5	298.8	265.0	244.4	255.1	257.6	252.6	271.6	288.9	292.2
55°	2399.8	719.9	236.9	215.5	196.5	219.6	226.2	219.6	225.4	236.9	237.8
57.5°	1689.9	407.0	181.6	178.3	162.6	188.2	199.0	189.0	179.1	186.6	188.2
60°	783.4	213.0	139.5	139.5	135.4	161.8	180.0	165.9	146.9	150.2	152.7
62.5°	245.2	134.6	102.4	96.6	110.6	137.9	152.7	138.7	116.4	116.4	119.7
65°	138.7	115.6	80.9	74.3	90.0	110.6	119.7	104.8	85.0	83.4	83.4
67.5°	128.8	109.8	71.8	60.3	63.6	71.0	74.3	64.4	58.6	57.8	58.6
70°	106.5	91.6	57.8	41.3	38.8	38.0	39.6	37.1	35.5	36.3	38.8
72.5°	66.0	55.3	36.3	24.8	21.5	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	8.3
77.5°	7.4	6.6	6.6	6.6	5.8	5.0	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	1.7	0.8	0.8	0.0
82.5°	4.1	4.1	4.1	3.3	3.3	3.3	2.5	1.7	0.8	0.0	0.0
85°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.7	0.8	0.0	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	1.7	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)