

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: P632909

Luminaire Tested: GWS-SA2D-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9878.6 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

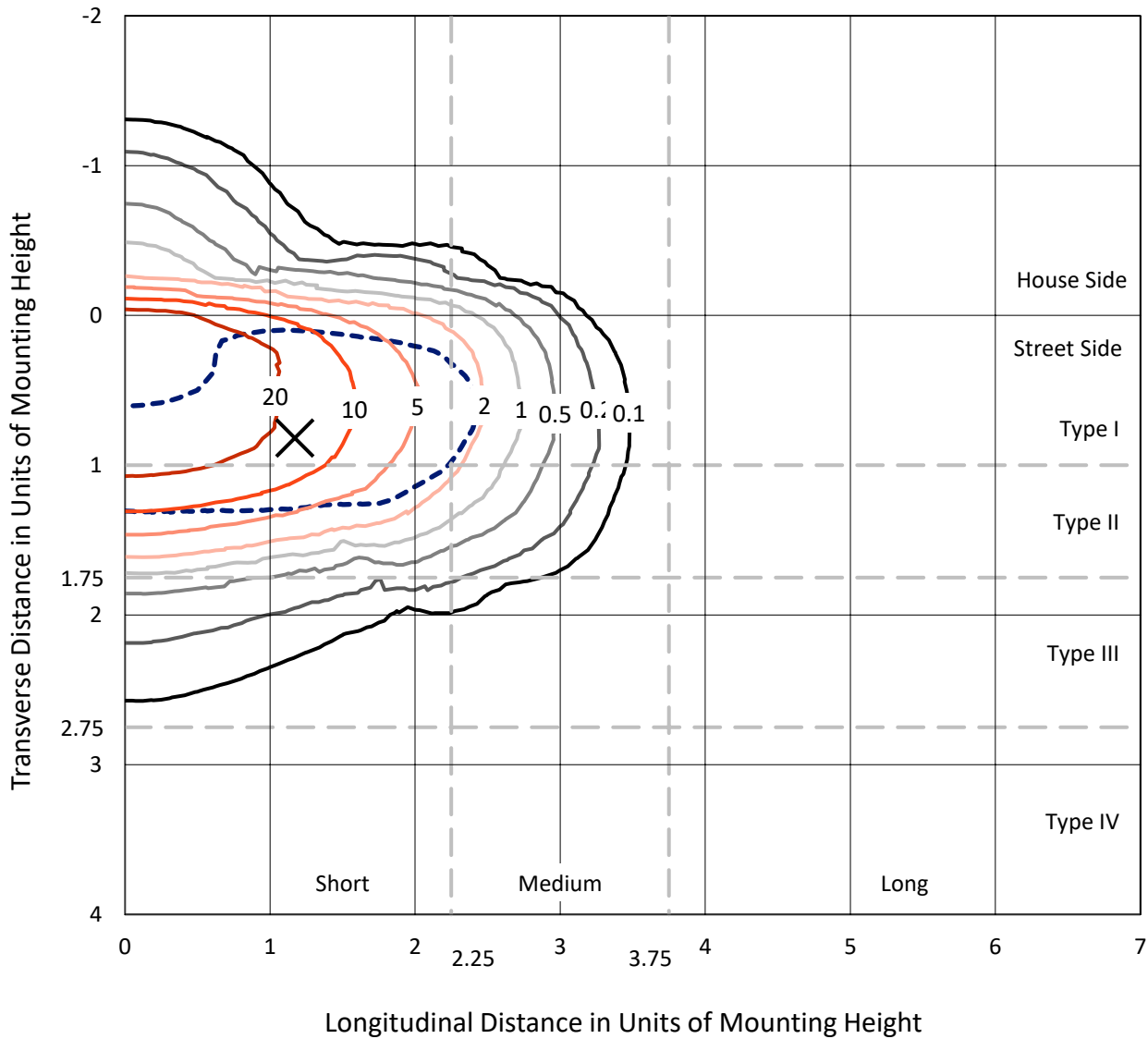
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

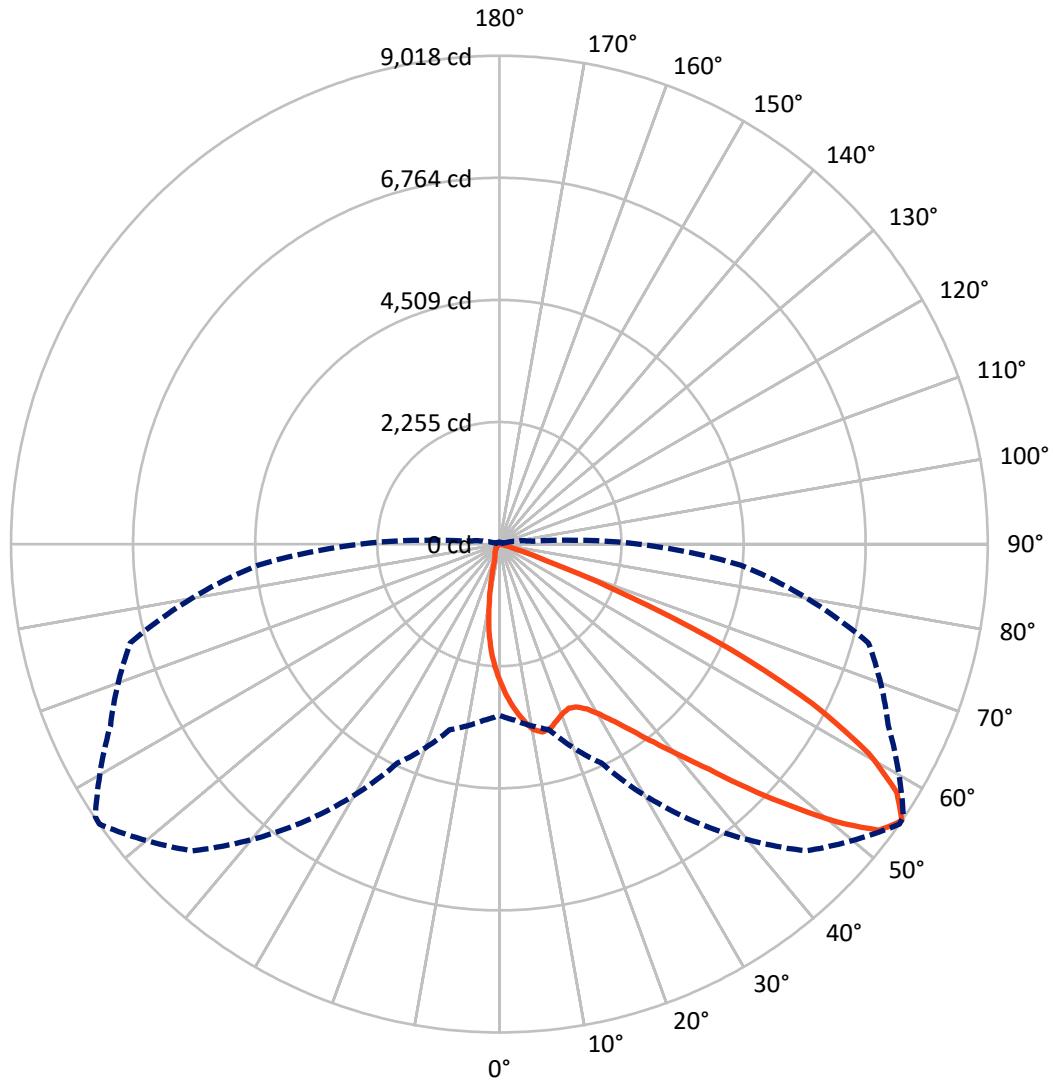
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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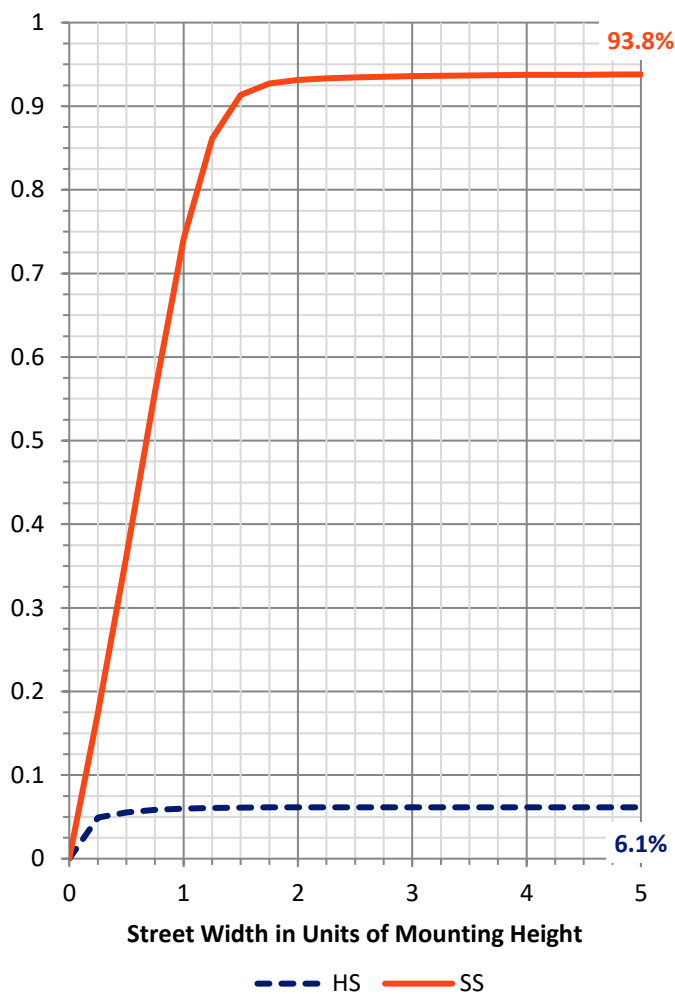
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	609.5	0.0	609.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9269.0	0.0	9269.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	9878.6	0.0	9878.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	2.3
10°-20°	543.8	5.5
20°-30°	905.6	9.2
30°-40°	1543.1	15.6
40°-50°	2518.9	25.5
50°-60°	2637.2	26.7
60°-70°	1330.1	13.5
70°-80°	168.0	1.7
80°-90°	6.4	0.1
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°	9878.6	100.0
0°-180°	9878.6	100.0

Coefficient of Utilization



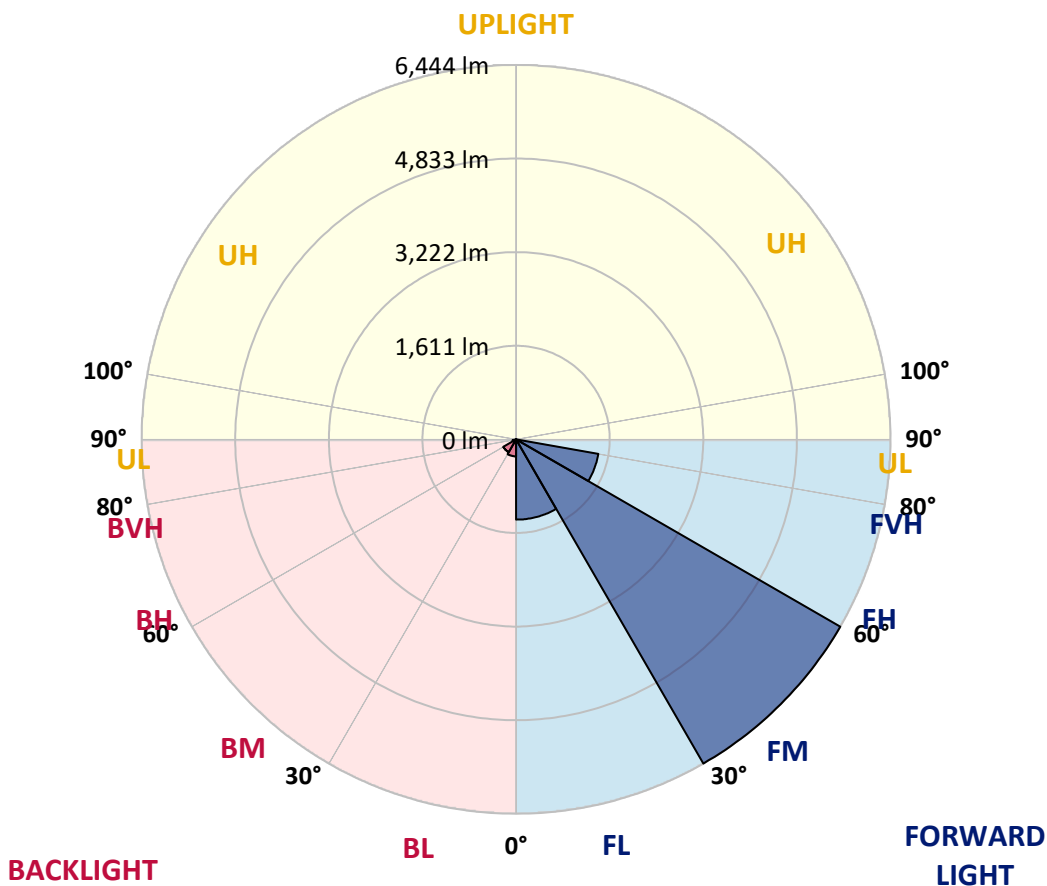
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.9	14.0			
FM (30°-60°)	6444.4	65.2			
FH (60°-80°)	1437.0	14.5			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	293.0	3.0	B1/500		
BM (30°-60°)	254.9	2.6	B1/1000		
BH (60°-80°)	61.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1
2.5°	2975.1	2960.8	2982.7	2957.4	2914.3	2878.0	2830.7	2813.8	2737.8	2666.1	2596.8
5°	3336.6	3340.8	3334.1	3298.6	3237.8	3170.2	3074.8	3053.7	2921.1	2784.3	2636.5
7.5°	3426.1	3423.6	3437.9	3451.4	3441.3	3407.5	3303.6	3282.5	3117.9	2912.6	2697.3
10°	3150.0	3151.6	3181.2	3272.4	3385.6	3502.9	3486.9	3475.1	3313.8	3057.9	2764.9
12.5°	2759.8	2775.0	2806.2	2936.3	3128.0	3394.9	3560.4	3572.2	3493.7	3217.5	2844.2
15°	2590.9	2594.3	2619.6	2698.1	2840.9	3170.2	3529.1	3562.1	3644.0	3378.0	2930.4
17.5°	2586.7	2590.9	2601.9	2636.5	2729.4	2993.7	3428.6	3486.1	3757.1	3550.2	3033.4
20°	2745.4	2742.9	2735.3	2716.7	2757.3	2935.5	3335.7	3399.1	3818.8	3718.3	3137.3
22.5°	3033.4	3030.0	2996.3	2919.4	2886.5	2988.7	3290.1	3347.6	3855.9	3867.8	3222.6
25°	3365.3	3388.9	3325.6	3209.1	3128.0	3124.6	3330.7	3371.2	3888.0	4000.4	3280.8
27.5°	3729.3	3736.9	3682.8	3551.9	3434.5	3342.5	3448.1	3478.5	3923.5	4118.6	3313.8
30°	4128.7	4126.2	4064.5	3912.5	3769.8	3637.2	3645.7	3657.5	4006.3	4253.7	3350.1
32.5°	4627.8	4638.8	4529.0	4322.1	4150.7	3967.4	3904.1	3905.8	4155.7	4427.7	3405.0
35°	5305.9	5278.9	5133.7	4838.9	4546.7	4349.1	4241.0	4231.7	4386.3	4661.6	3500.4
37.5°	5952.0	5954.5	5802.5	5478.2	5109.2	4797.6	4644.7	4619.4	4710.6	4985.9	3659.2
40°	6400.4	6408.8	6345.5	6175.8	5784.8	5343.9	5119.3	5093.1	5131.1	5396.3	3866.9
42.5°	6637.7	6661.3	6679.1	6718.8	6422.4	6026.3	5680.9	5678.4	5638.7	5864.1	4107.6
45°	6647.0	6682.5	6790.6	7061.6	7095.4	6804.9	6429.1	6372.5	6219.7	6364.9	4322.9
47.5°	6279.6	6361.6	6591.3	7128.3	7483.0	7579.3	7206.9	7172.3	6743.3	6761.0	4484.2
50°	5423.3	5508.6	5931.7	6786.3	7581.0	8194.1	8060.7	7988.9	7180.7	7022.8	4561.9
52.5°	4545.1	4622.7	4909.9	5972.2	7174.8	8387.5	8780.2	8694.9	7573.4	7114.0	4529.8
55°	3162.6	3266.5	3546.9	4464.0	6239.1	8010.8	9018.3	9000.6	7923.9	7056.6	4480.0
57.5°	1550.5	1653.5	1933.0	2752.2	4621.9	6994.1	8654.3	8748.1	8133.3	6994.9	4439.5
60°	647.7	689.9	786.2	1207.6	2585.8	5285.7	7832.7	7962.7	8004.9	6911.3	4435.3
62.5°	375.8	382.6	392.7	500.8	1005.8	3030.0	6497.5	6682.5	7330.2	6800.7	4368.6
65°	283.7	286.3	282.1	307.4	415.5	1149.4	4694.5	4946.2	6118.3	6368.3	4105.1
67.5°	233.1	233.1	222.1	227.2	260.9	430.7	2591.7	2943.1	4527.3	5234.2	3389.8
70°	185.8	190.0	184.9	178.2	186.6	238.1	922.2	1143.4	2636.5	3090.8	1977.0
72.5°	141.0	141.0	149.5	144.4	138.5	149.5	321.8	361.4	1058.1	1288.7	713.6
75°	108.9	112.3	118.2	113.2	104.7	88.7	154.5	163.8	319.2	299.8	159.6
77.5°	55.7	56.6	75.2	82.8	77.7	54.0	67.6	74.3	103.9	92.9	59.1
80°	33.8	35.5	42.2	65.0	51.5	28.7	27.9	29.6	49.0	42.2	24.5
82.5°	14.4	15.2	23.6	23.6	21.1	11.0	11.0	11.0	23.6	22.0	10.1
85°	0.0	0.0	4.2	3.4	3.4	4.2	4.2	4.2	5.9	8.4	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	2.5
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°	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1
2.5°	2552.1	2498.0	2425.4	2359.5	2270.8	2221.0	2151.8	2095.2	2047.0	2031.8	2025.1
5°	2552.9	2460.0	2304.6	2149.2	1958.4	1808.1	1653.5	1531.1	1430.6	1398.5	1390.0
7.5°	2569.8	2433.0	2181.3	1899.3	1580.0	1316.6	1080.9	869.8	771.9	738.9	732.2
10°	2592.6	2410.2	2038.6	1599.5	1140.9	802.3	568.3	433.2	369.0	333.6	338.6
12.5°	2622.1	2391.6	1880.7	1275.2	755.0	440.8	312.5	261.8	248.3	241.5	238.1
15°	2661.8	2369.6	1684.8	953.4	462.8	283.7	240.7	227.2	222.1	218.7	217.9
17.5°	2702.4	2344.3	1485.5	670.5	307.4	235.6	216.2	209.4	206.1	203.5	202.7
20°	2745.4	2301.2	1251.5	461.9	242.4	212.0	199.3	191.7	187.5	183.3	182.4
22.5°	2764.0	2232.0	1027.7	323.4	215.3	195.1	179.0	169.7	164.7	161.3	161.3
25°	2746.3	2119.7	796.4	245.7	195.9	176.5	160.5	150.3	146.1	142.7	142.7
27.5°	2699.0	1975.3	581.0	203.5	174.8	157.1	141.9	132.6	129.2	127.5	127.5
30°	2646.6	1792.9	409.6	174.8	151.2	136.8	124.1	118.2	117.4	115.7	115.7
32.5°	2601.9	1622.3	282.1	153.7	133.4	119.1	110.6	108.1	108.9	107.3	108.1
35°	2577.4	1455.1	209.4	136.8	119.1	105.6	101.3	101.3	101.3	100.5	100.5
37.5°	2587.5	1290.4	170.6	125.0	106.4	96.3	92.0	93.7	95.4	95.4	95.4
40°	2638.2	1144.3	151.2	114.0	95.4	87.8	84.4	87.0	89.5	91.2	91.2
42.5°	2702.4	1026.1	136.8	104.7	87.8	79.4	77.7	80.2	82.8	84.4	84.4
45°	2742.9	907.0	122.5	92.9	80.2	70.1	70.1	73.5	72.6	73.5	73.5
47.5°	2761.5	812.4	108.1	80.2	68.4	60.8	61.6	63.3	61.6	63.3	63.3
50°	2715.9	717.0	95.4	66.7	56.6	53.2	54.9	54.0	54.0	57.4	57.4
52.5°	2632.3	646.0	84.4	56.6	48.1	47.3	49.0	45.6	46.4	46.4	45.6
55°	2570.6	605.5	75.2	49.0	41.4	42.2	41.4	35.5	32.1	28.7	27.9
57.5°	2540.2	589.5	68.4	43.9	37.2	37.2	33.8	24.5	18.6	14.4	12.7
60°	2533.5	570.0	61.6	38.0	32.9	31.2	24.5	14.4	9.3	6.8	5.9
62.5°	2469.3	522.7	55.7	30.4	28.7	25.3	15.2	8.4	5.1	3.4	2.5
65°	2259.0	429.8	49.8	23.6	22.0	18.6	9.3	5.1	2.5	0.8	0.0
67.5°	1797.1	304.9	43.9	17.7	15.2	11.8	5.9	3.4	0.8	0.0	0.0
70°	1036.2	164.7	36.3	12.7	10.1	7.6	4.2	1.7	0.0	0.0	0.0
72.5°	346.2	76.8	27.9	8.4	7.6	5.9	2.5	0.8	0.0	0.0	0.0
75°	76.0	45.6	18.6	5.9	5.1	4.2	1.7	0.0	0.0	0.0	0.0
77.5°	28.7	32.1	9.3	4.2	3.4	2.5	0.8	0.0	0.0	0.0	0.0
80°	11.0	21.1	4.2	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	8.4	2.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	4.2	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	0.8	0.8	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)