

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: P632689

Luminaire Tested: GWS-SA2D-730-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632689
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-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8916.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

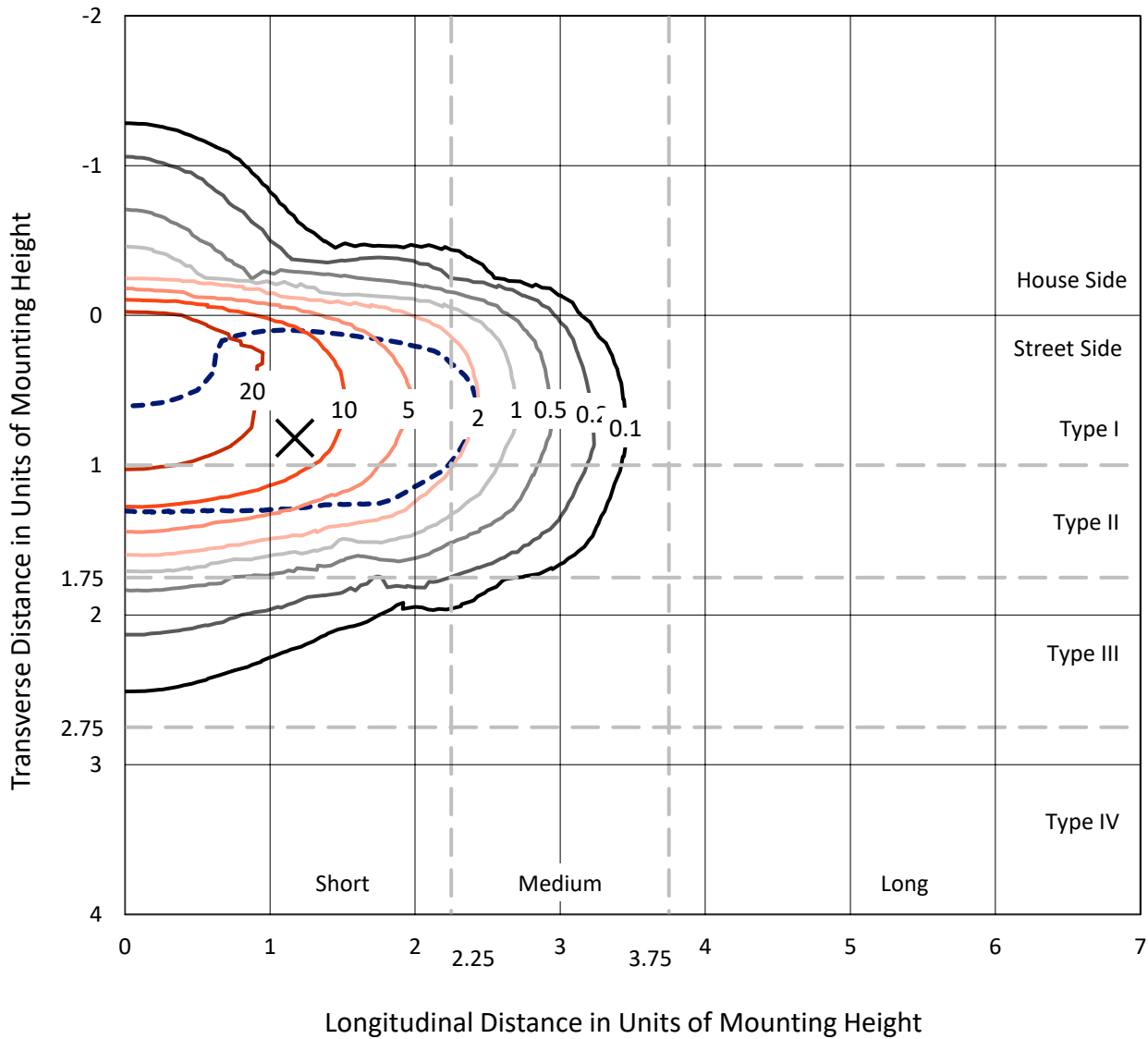
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

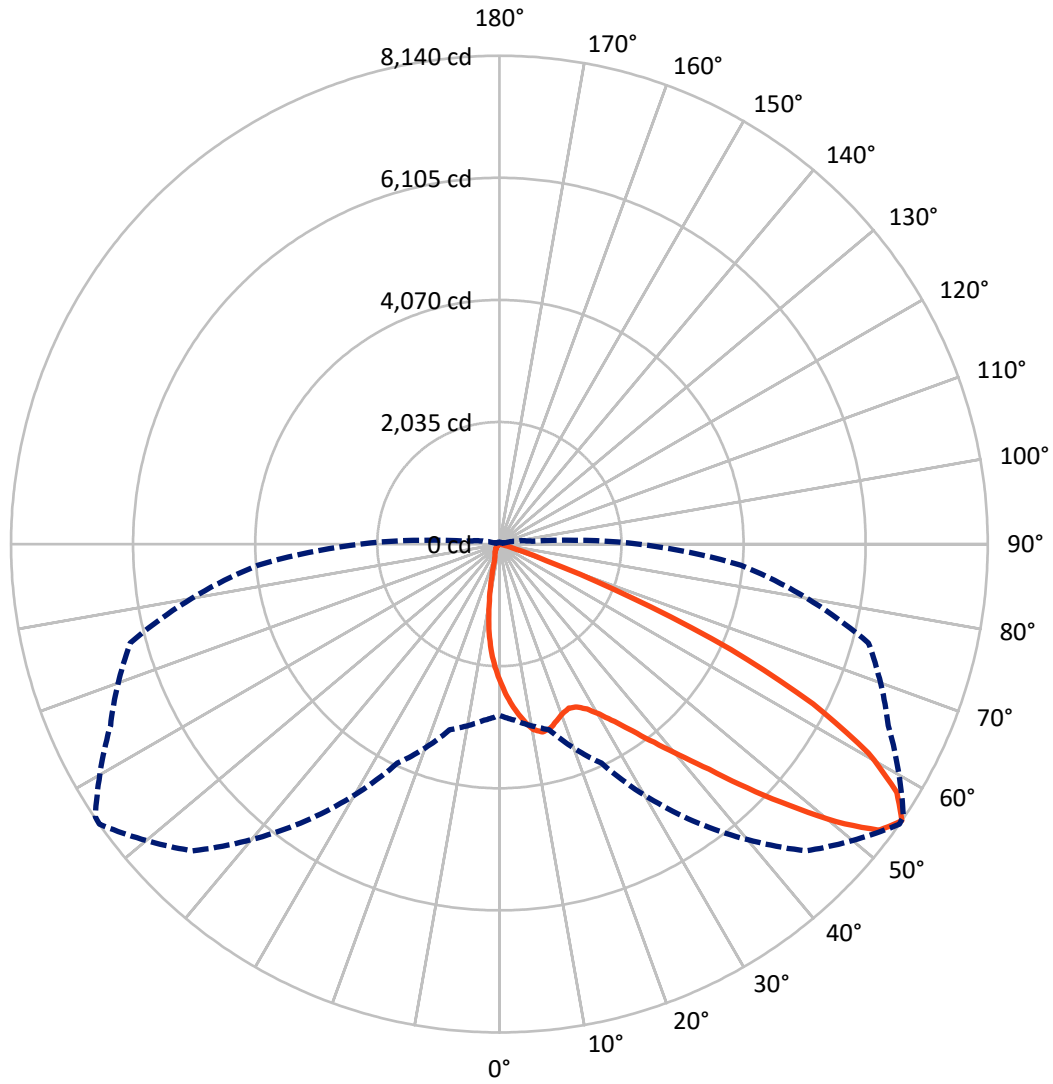
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.2 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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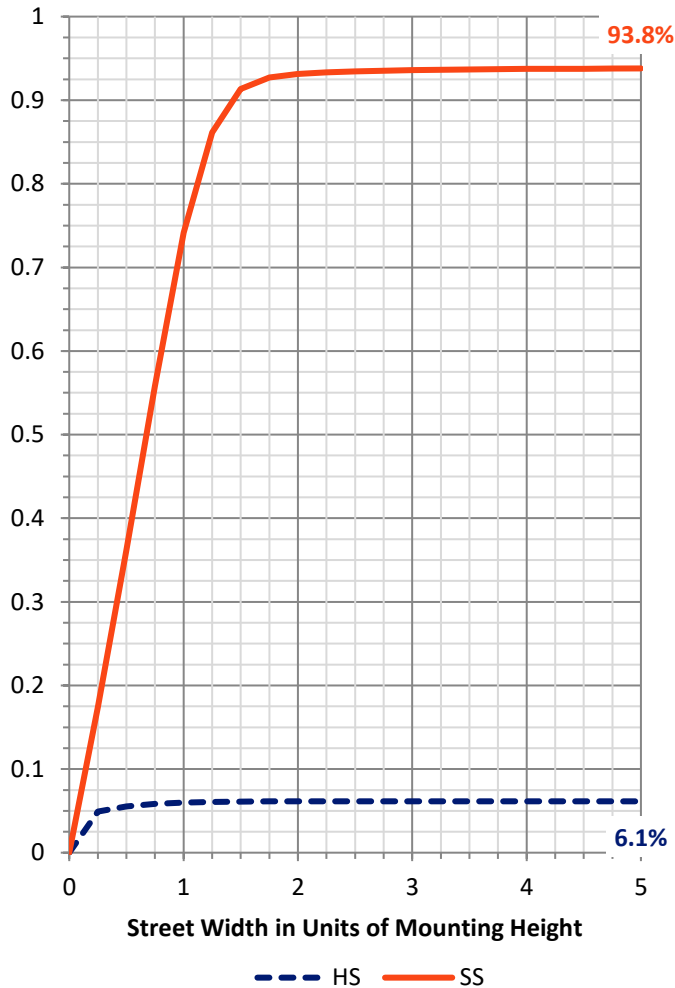
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.2	0.0	550.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8366.1	0.0	8366.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	8916.3	0.0	8916.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	2.3
10°-20°	490.8	5.5
20°-30°	817.3	9.2
30°-40°	1392.8	15.6
40°-50°	2273.5	25.5
50°-60°	2380.3	26.7
60°-70°	1200.6	13.5
70°-80°	151.7	1.7
80°-90°	5.8	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°	8916.3	100.0
0°-180°	8916.3	100.0

Coefficient of Utilization



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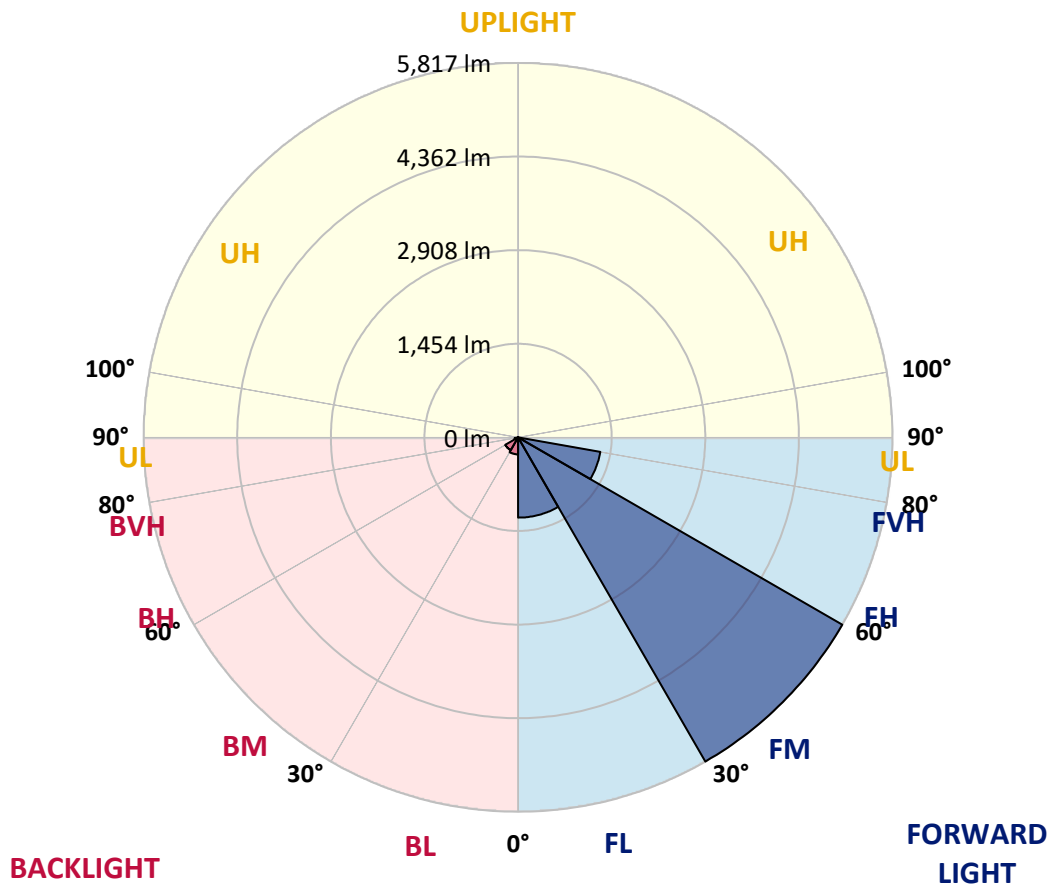
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.3	14.0			
FM (30°-60°)	5816.6	65.2			
FH (60°-80°)	1297.0	14.5			G1/1800
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	264.4	3.0	B1/500		
BM (30°-60°)	230.0	2.6	B1/1000		
BH (60°-80°)	55.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4
2.5°	2685.3	2672.4	2692.2	2669.3	2630.4	2597.7	2555.0	2539.7	2471.1	2406.4	2343.8
5°	3011.6	3015.4	3009.3	2977.3	2922.4	2861.4	2775.3	2756.2	2636.5	2513.1	2379.7
7.5°	3092.4	3090.1	3103.0	3115.2	3106.1	3075.6	2981.8	2962.8	2814.1	2628.9	2434.6
10°	2843.1	2844.6	2871.3	2953.6	3055.8	3161.7	3147.2	3136.6	2991.0	2760.0	2495.5
12.5°	2491.0	2504.7	2532.9	2650.3	2823.3	3064.2	3213.5	3224.2	3153.3	2904.1	2567.2
15°	2338.5	2341.6	2364.4	2435.3	2564.1	2861.4	3185.3	3215.1	3289.0	3048.9	2644.9
17.5°	2334.7	2338.5	2348.4	2379.7	2463.5	2702.1	3094.6	3146.5	3391.1	3204.4	2737.9
20°	2478.0	2475.7	2468.9	2452.1	2488.7	2649.5	3010.8	3068.0	3446.8	3356.1	2831.7
22.5°	2737.9	2734.9	2704.4	2635.0	2605.3	2697.5	2969.6	3021.5	3480.3	3491.0	2908.7
25°	3037.5	3058.8	3001.6	2896.5	2823.3	2820.2	3006.2	3042.8	3509.3	3610.7	2961.3
27.5°	3366.0	3372.9	3324.1	3205.9	3100.0	3016.9	3112.2	3139.6	3541.3	3717.4	2991.0
30°	3726.5	3724.2	3668.6	3531.4	3402.6	3282.9	3290.5	3301.2	3616.0	3839.3	3023.8
32.5°	4177.0	4186.9	4087.8	3901.1	3746.3	3580.9	3523.8	3525.3	3750.9	3996.4	3073.3
35°	4789.1	4764.7	4633.6	4367.6	4103.8	3925.5	3827.9	3819.5	3959.0	4207.5	3159.4
37.5°	5372.2	5374.5	5237.3	4944.6	4611.5	4330.2	4192.2	4169.4	4251.7	4500.2	3302.7
40°	5776.9	5784.5	5727.4	5574.2	5221.3	4823.4	4620.6	4597.0	4631.3	4870.6	3490.2
42.5°	5991.1	6012.4	6028.5	6064.3	5796.7	5439.3	5127.5	5125.2	5089.4	5292.9	3707.5
45°	5999.5	6031.5	6129.1	6373.7	6404.2	6142.0	5802.8	5751.8	5613.8	5744.9	3901.8
47.5°	5667.9	5741.9	5949.2	6434.0	6754.1	6841.0	6504.8	6473.6	6086.4	6102.4	4047.4
50°	4895.0	4972.0	5353.9	6125.3	6842.5	7395.9	7275.5	7210.7	6481.2	6338.7	4117.5
52.5°	4102.3	4172.4	4431.6	5390.5	6475.9	7570.4	7924.9	7847.9	6835.7	6421.0	4088.6
55°	2854.5	2948.3	3201.4	4029.1	5631.3	7230.5	8139.8	8123.8	7152.0	6369.2	4043.6
57.5°	1399.4	1492.4	1744.7	2484.1	4171.7	6312.8	7811.3	7895.9	7341.0	6313.5	4007.0
60°	584.6	622.7	709.6	1090.0	2333.9	4770.8	7069.7	7187.0	7225.1	6238.1	4003.2
62.5°	339.2	345.3	354.4	452.0	907.8	2734.9	5864.6	6031.5	6616.1	6138.2	3943.0
65°	256.1	258.4	254.6	277.5	375.0	1037.4	4237.2	4464.4	5522.3	5748.0	3705.2
67.5°	210.4	210.4	200.5	205.0	235.5	388.7	2339.3	2656.4	4086.3	4724.3	3059.6
70°	167.7	171.5	166.9	160.8	168.5	214.9	832.4	1032.1	2379.7	2789.8	1784.4
72.5°	127.3	127.3	134.9	130.3	125.0	134.9	290.4	326.2	955.1	1163.2	644.1
75°	98.3	101.4	106.7	102.1	94.5	80.0	139.5	147.9	288.1	270.6	144.1
77.5°	50.3	51.1	67.8	74.7	70.1	48.8	61.0	67.1	93.8	83.8	53.4
80°	30.5	32.0	38.1	58.7	46.5	25.9	25.2	26.7	44.2	38.1	22.1
82.5°	13.0	13.7	21.3	21.3	19.1	9.9	9.9	9.9	21.3	19.8	9.1
85°	0.0	0.0	3.8	3.0	3.0	3.8	3.8	3.8	5.3	7.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.3
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°	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4	2303.4
2.5°	2303.4	2254.7	2189.1	2129.7	2049.6	2004.7	1942.2	1891.1	1847.6	1833.9	1827.8
5°	2304.2	2220.4	2080.1	1939.9	1767.6	1631.9	1492.4	1381.9	1291.2	1262.2	1254.6
7.5°	2319.5	2196.0	1968.8	1714.2	1426.1	1188.3	975.7	785.1	696.7	666.9	660.9
10°	2340.0	2175.4	1840.0	1443.7	1029.8	724.1	513.0	391.0	333.1	301.1	305.7
12.5°	2366.7	2158.6	1697.5	1151.0	681.4	397.9	282.0	236.3	224.1	218.0	214.9
15°	2402.5	2138.8	1520.6	860.6	417.7	256.1	217.2	205.0	200.5	197.4	196.7
17.5°	2439.1	2115.9	1340.8	605.2	277.5	212.7	195.1	189.0	186.0	183.7	182.9
20°	2478.0	2077.1	1129.6	416.9	218.8	191.3	179.9	173.0	169.2	165.4	164.6
22.5°	2494.8	2014.6	927.6	291.9	194.4	176.1	161.6	153.2	148.6	145.6	145.6
25°	2478.8	1913.2	718.8	221.8	176.8	159.3	144.8	135.7	131.9	128.8	128.8
27.5°	2436.1	1782.8	524.4	183.7	157.8	141.8	128.1	119.7	116.6	115.1	115.1
30°	2388.8	1618.2	369.7	157.8	136.4	123.5	112.0	106.7	105.9	104.4	104.4
32.5°	2348.4	1464.2	254.6	138.7	120.4	107.5	99.9	97.6	98.3	96.8	97.6
35°	2326.3	1313.3	189.0	123.5	107.5	95.3	91.5	91.5	91.5	90.7	90.7
37.5°	2335.5	1164.7	154.0	112.8	96.0	86.9	83.1	84.6	86.1	86.1	86.1
40°	2381.2	1032.8	136.4	102.9	86.1	79.3	76.2	78.5	80.8	82.3	82.3
42.5°	2439.1	926.1	123.5	94.5	79.3	71.6	70.1	72.4	74.7	76.2	76.2
45°	2475.7	818.6	110.5	83.8	72.4	63.3	63.3	66.3	65.6	66.3	66.3
47.5°	2492.5	733.3	97.6	72.4	61.7	54.9	55.6	57.2	55.6	57.2	57.2
50°	2451.3	647.1	86.1	60.2	51.1	48.0	49.5	48.8	48.8	51.8	51.8
52.5°	2375.9	583.1	76.2	51.1	43.4	42.7	44.2	41.2	41.9	41.9	41.2
55°	2320.2	546.5	67.8	44.2	37.3	38.1	37.3	32.0	29.0	25.9	25.2
57.5°	2292.8	532.0	61.7	39.6	33.5	33.5	30.5	22.1	16.8	13.0	11.4
60°	2286.7	514.5	55.6	34.3	29.7	28.2	22.1	13.0	8.4	6.1	5.3
62.5°	2228.8	471.8	50.3	27.4	25.9	22.9	13.7	7.6	4.6	3.0	2.3
65°	2039.0	388.0	45.0	21.3	19.8	16.8	8.4	4.6	2.3	0.8	0.0
67.5°	1622.0	275.2	39.6	16.0	13.7	10.7	5.3	3.0	0.8	0.0	0.0
70°	935.3	148.6	32.8	11.4	9.1	6.9	3.8	1.5	0.0	0.0	0.0
72.5°	312.5	69.4	25.2	7.6	6.9	5.3	2.3	0.8	0.0	0.0	0.0
75°	68.6	41.2	16.8	5.3	4.6	3.8	1.5	0.0	0.0	0.0	0.0
77.5°	25.9	29.0	8.4	3.8	3.0	2.3	0.8	0.0	0.0	0.0	0.0
80°	9.9	19.1	3.8	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	7.6	2.3	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	3.8	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)