

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: P633019

Luminaire Tested: GWS-SA2D-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633019
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-830-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, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7778.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

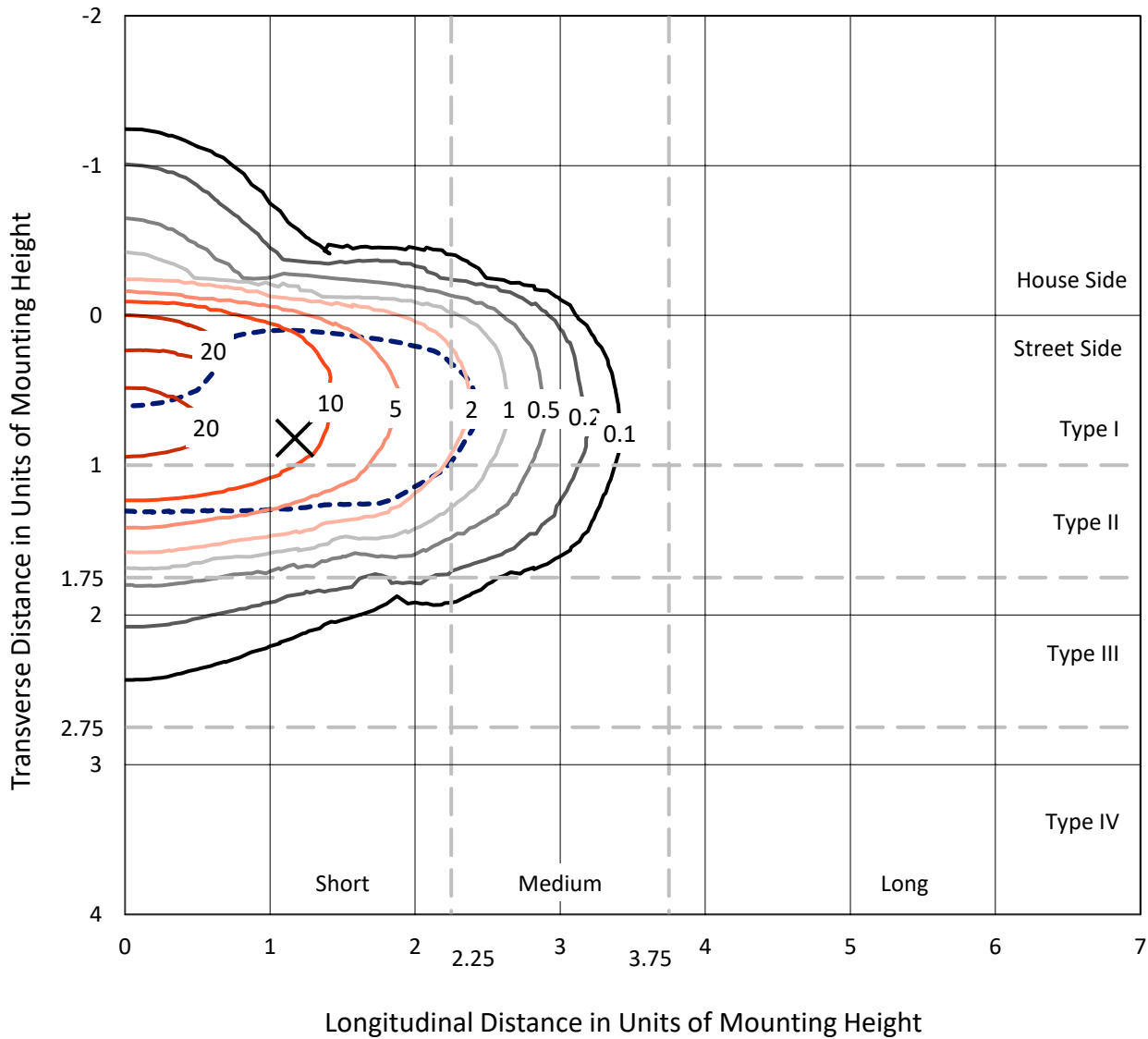
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

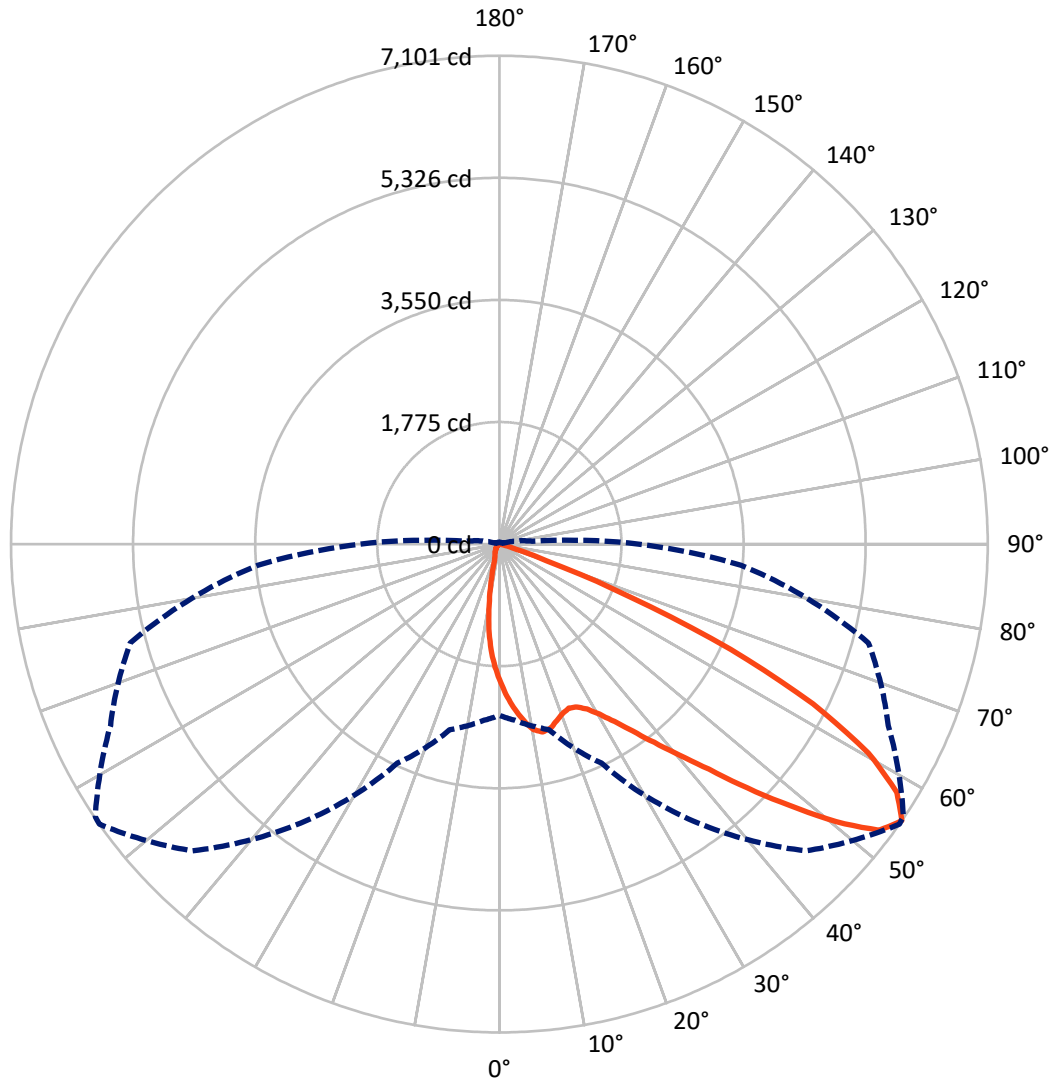
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.3 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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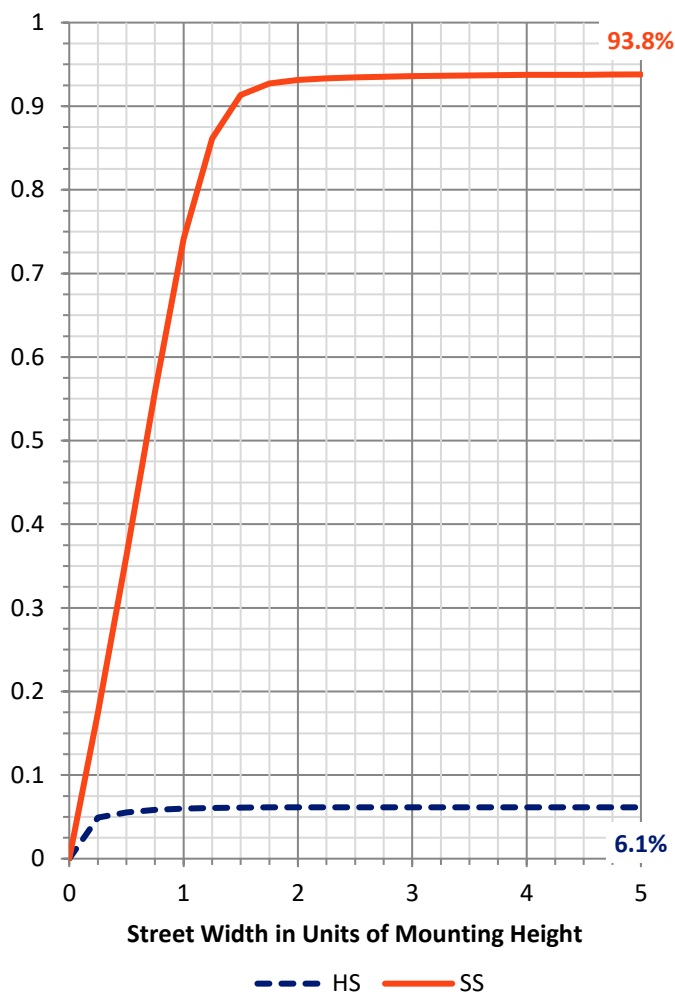
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.0	0.0	480.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7298.4	0.0	7298.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	7778.3	0.0	7778.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	2.3
10°-20°	428.1	5.5
20°-30°	713.0	9.2
30°-40°	1215.0	15.6
40°-50°	1983.4	25.5
50°-60°	2076.5	26.7
60°-70°	1047.3	13.5
70°-80°	132.3	1.7
80°-90°	5.0	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°	7778.3	100.0
0°-180°	7778.3	100.0

Coefficient of Utilization



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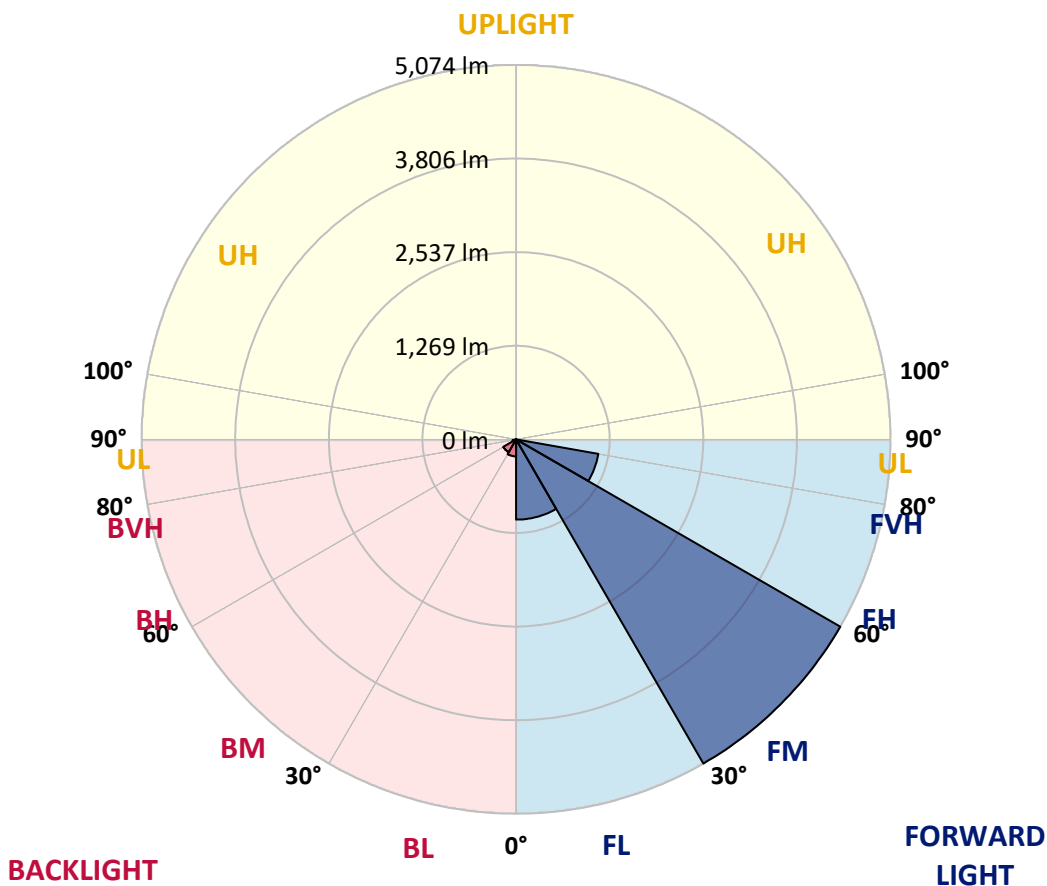
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.1	14.0			
FM (30°-60°)	5074.2	65.2			
FH (60°-80°)	1131.5	14.5			G1/1800
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	230.7	3.0	B1/500		
BM (30°-60°)	200.7	2.6	B0/220		
BH (60°-80°)	48.1	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°	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5
2.5°	2342.6	2331.3	2348.6	2328.6	2294.7	2266.1	2228.9	2215.6	2155.7	2099.2	2044.7
5°	2627.2	2630.5	2625.2	2597.3	2549.4	2496.2	2421.1	2404.4	2300.0	2192.3	2076.0
7.5°	2697.7	2695.7	2707.0	2717.6	2709.6	2683.0	2601.3	2584.6	2455.0	2293.4	2123.8
10°	2480.2	2481.6	2504.8	2576.7	2665.8	2758.2	2745.5	2736.2	2609.2	2407.8	2177.0
12.5°	2173.0	2185.0	2209.6	2312.0	2462.9	2673.1	2803.4	2812.7	2750.9	2533.4	2239.5
15°	2040.0	2042.7	2062.7	2124.5	2236.9	2496.2	2778.8	2804.7	2869.2	2659.8	2307.4
17.5°	2036.7	2040.0	2048.7	2076.0	2149.1	2357.2	2699.7	2744.9	2958.3	2795.4	2388.5
20°	2161.7	2159.7	2153.7	2139.1	2171.0	2311.3	2626.5	2676.4	3006.9	2927.7	2470.3
22.5°	2388.5	2385.8	2359.2	2298.7	2272.8	2353.2	2590.6	2635.8	3036.1	3045.4	2537.4
25°	2649.8	2668.4	2618.5	2526.8	2462.9	2460.3	2622.5	2654.5	3061.4	3149.8	2583.3
27.5°	2936.4	2942.4	2899.8	2796.7	2704.3	2631.8	2715.0	2738.9	3089.3	3242.9	2609.2
30°	3250.9	3248.9	3200.4	3080.7	2968.3	2863.9	2870.6	2879.9	3154.5	3349.3	2637.8
32.5°	3643.9	3652.5	3566.1	3403.2	3268.2	3123.9	3074.0	3075.4	3272.2	3486.3	2681.0
35°	4177.8	4156.6	4042.2	3810.1	3580.1	3424.5	3339.3	3332.0	3453.7	3670.5	2756.2
37.5°	4686.5	4688.5	4568.8	4313.5	4022.9	3777.5	3657.2	3637.2	3709.1	3925.8	2881.2
40°	5039.6	5046.3	4996.4	4862.7	4554.9	4207.8	4030.9	4010.3	4040.2	4249.0	3044.8
42.5°	5226.5	5245.1	5259.0	5290.3	5056.9	4745.0	4473.1	4471.1	4439.8	4617.4	3234.3
45°	5233.8	5261.7	5346.8	5560.3	5586.8	5358.1	5062.2	5017.7	4897.3	5011.7	3403.8
47.5°	4944.5	5009.0	5189.9	5612.8	5892.1	5967.9	5674.6	5647.4	5309.6	5323.5	3530.8
50°	4270.3	4337.4	4670.6	5343.5	5969.2	6451.9	6346.9	6290.4	5654.0	5529.7	3592.0
52.5°	3578.7	3639.9	3866.0	4702.5	5649.4	6604.2	6913.4	6846.3	5963.2	5601.5	3566.8
55°	2490.2	2572.0	2792.8	3514.9	4912.6	6307.6	7100.9	7087.0	6239.2	5556.3	3527.5
57.5°	1220.8	1302.0	1522.1	2167.0	3639.2	5507.1	6814.3	6888.1	6404.1	5507.7	3495.6
60°	510.0	543.3	619.1	950.9	2036.1	4161.9	6167.3	6269.7	6303.0	5441.9	3492.3
62.5°	295.9	301.2	309.2	394.3	791.9	2385.8	5116.1	5261.7	5771.7	5354.8	3439.7
65°	223.4	225.4	222.1	242.0	327.2	905.0	3696.4	3894.6	4817.5	5014.3	3232.3
67.5°	183.5	183.5	174.9	178.9	205.5	339.1	2040.7	2317.3	3564.8	4121.3	2669.1
70°	146.3	149.6	145.6	140.3	147.0	187.5	726.1	900.3	2076.0	2433.7	1556.6
72.5°	111.0	111.0	117.7	113.7	109.1	117.7	253.3	284.6	833.2	1014.7	561.9
75°	85.8	88.4	93.1	89.1	82.5	69.8	121.7	129.0	251.3	236.1	125.7
77.5°	43.9	44.6	59.2	65.2	61.2	42.6	53.2	58.5	81.8	73.1	46.5
80°	26.6	27.9	33.2	51.2	40.6	22.6	21.9	23.3	38.6	33.2	19.3
82.5°	11.3	12.0	18.6	18.6	16.6	8.6	8.6	8.6	18.6	17.3	8.0
85°	0.0	0.0	3.3	2.7	2.7	3.3	3.3	3.3	4.7	6.6	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.0
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°	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5	2009.5
2.5°	2009.5	1966.9	1909.7	1857.9	1788.0	1748.8	1694.3	1649.7	1611.8	1599.9	1594.5
5°	2010.1	1937.0	1814.6	1692.3	1542.0	1423.6	1302.0	1205.5	1126.4	1101.1	1094.5
7.5°	2023.4	1915.7	1717.5	1495.5	1244.1	1036.6	851.1	684.9	607.8	581.8	576.5
10°	2041.4	1897.7	1605.2	1259.4	898.3	631.7	447.5	341.1	290.6	262.7	266.6
12.5°	2064.6	1883.1	1480.8	1004.1	594.5	347.1	246.0	206.1	195.5	190.2	187.5
15°	2095.9	1865.8	1326.6	750.7	364.4	223.4	189.5	178.9	174.9	172.2	171.6
17.5°	2127.8	1845.9	1169.6	528.0	242.0	185.5	170.2	164.9	162.2	160.3	159.6
20°	2161.7	1812.0	985.4	363.7	190.8	166.9	156.9	150.9	147.6	144.3	143.6
22.5°	2176.4	1757.4	809.2	254.7	169.6	153.6	141.0	133.7	129.7	127.0	127.0
25°	2162.4	1669.0	627.0	193.5	154.3	139.0	126.3	118.4	115.0	112.4	112.4
27.5°	2125.2	1555.3	457.5	160.3	137.6	123.7	111.7	104.4	101.7	100.4	100.4
30°	2083.9	1411.7	322.5	137.6	119.0	107.7	97.7	93.1	92.4	91.1	91.1
32.5°	2048.7	1277.4	222.1	121.0	105.1	93.8	87.1	85.1	85.8	84.4	85.1
35°	2029.4	1145.7	164.9	107.7	93.8	83.1	79.8	79.8	79.8	79.1	79.1
37.5°	2037.4	1016.0	134.3	98.4	83.8	75.8	72.5	73.8	75.1	75.1	75.1
40°	2077.3	901.0	119.0	89.8	75.1	69.2	66.5	68.5	70.5	71.8	71.8
42.5°	2127.8	807.9	107.7	82.5	69.2	62.5	61.2	63.2	65.2	66.5	66.5
45°	2159.7	714.1	96.4	73.1	63.2	55.2	55.2	57.9	57.2	57.9	57.9
47.5°	2174.4	639.7	85.1	63.2	53.9	47.9	48.5	49.9	48.5	49.9	49.9
50°	2138.5	564.5	75.1	52.5	44.6	41.9	43.2	42.6	42.6	45.2	45.2
52.5°	2072.6	508.7	66.5	44.6	37.9	37.2	38.6	35.9	36.6	36.6	35.9
55°	2024.1	476.8	59.2	38.6	32.6	33.2	32.6	27.9	25.3	22.6	21.9
57.5°	2000.1	464.1	53.9	34.6	29.3	29.3	26.6	19.3	14.6	11.3	10.0
60°	1994.8	448.8	48.5	29.9	25.9	24.6	19.3	11.3	7.3	5.3	4.7
62.5°	1944.3	411.6	43.9	23.9	22.6	19.9	12.0	6.6	4.0	2.7	2.0
65°	1778.7	338.5	39.2	18.6	17.3	14.6	7.3	4.0	2.0	0.7	0.0
67.5°	1415.0	240.0	34.6	14.0	12.0	9.3	4.7	2.7	0.7	0.0	0.0
70°	815.9	129.7	28.6	10.0	8.0	6.0	3.3	1.3	0.0	0.0	0.0
72.5°	272.6	60.5	21.9	6.6	6.0	4.7	2.0	0.7	0.0	0.0	0.0
75°	59.8	35.9	14.6	4.7	4.0	3.3	1.3	0.0	0.0	0.0	0.0
77.5°	22.6	25.3	7.3	3.3	2.7	2.0	0.7	0.0	0.0	0.0	0.0
80°	8.6	16.6	3.3	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	6.6	2.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	3.3	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.7	0.7	0.7	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)