

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: P632907

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632907
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8872 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

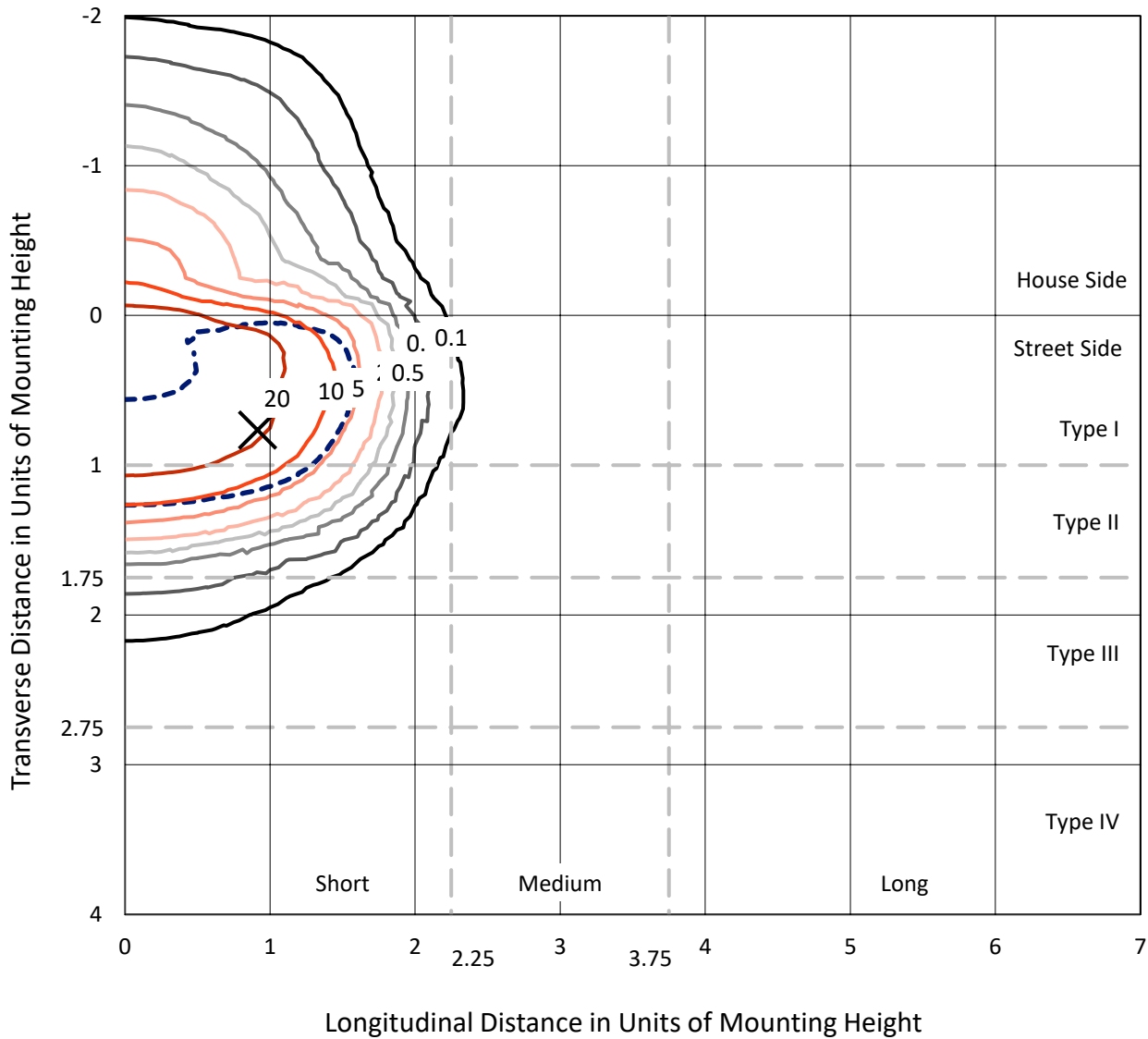
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

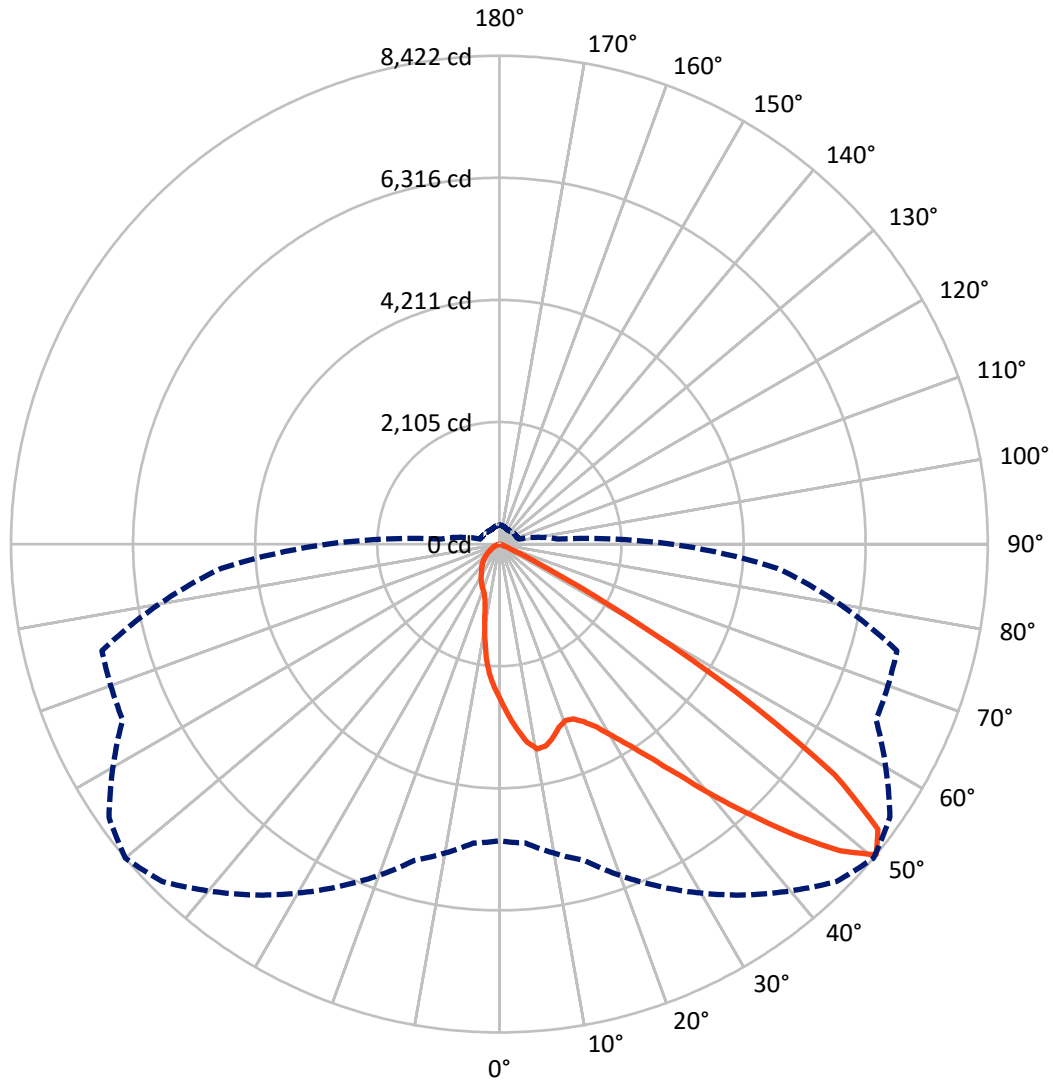
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.4 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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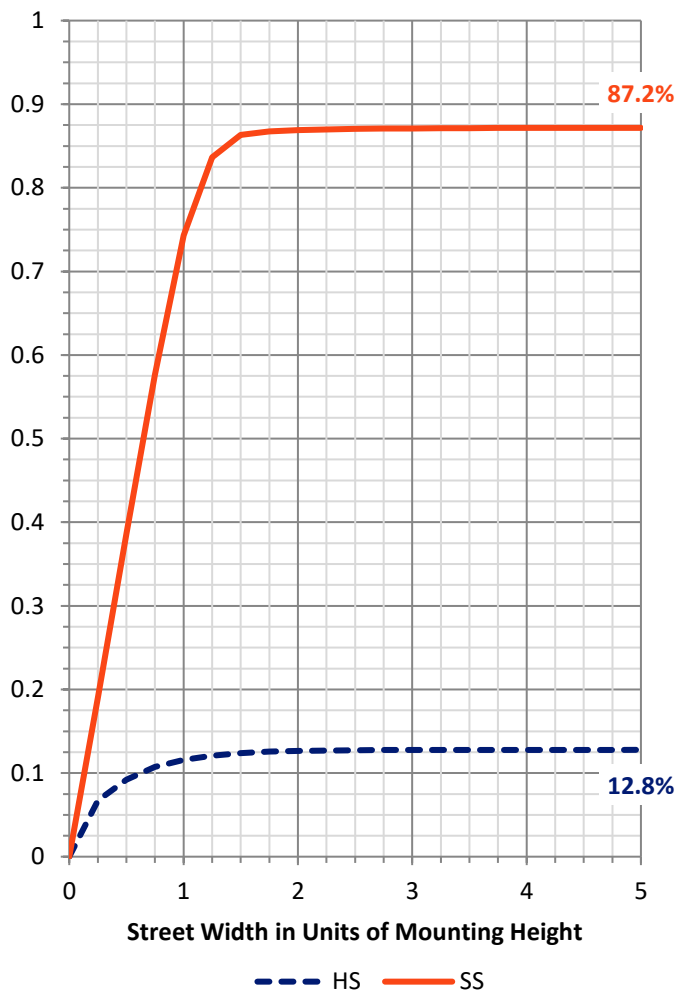
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1139.9	0.0	1139.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7732.1	0.0	7732.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	8872.0	0.0	8872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	2.8
10°-20°	643.3	7.3
20°-30°	1061.7	12.0
30°-40°	1752.0	19.7
40°-50°	2772.1	31.2
50°-60°	2098.8	23.7
60°-70°	262.7	3.0
70°-80°	29.7	0.3
80°-90°	2.3	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°	8872.0	100.0
0°-180°	8872.0	100.0

Coefficient of Utilization



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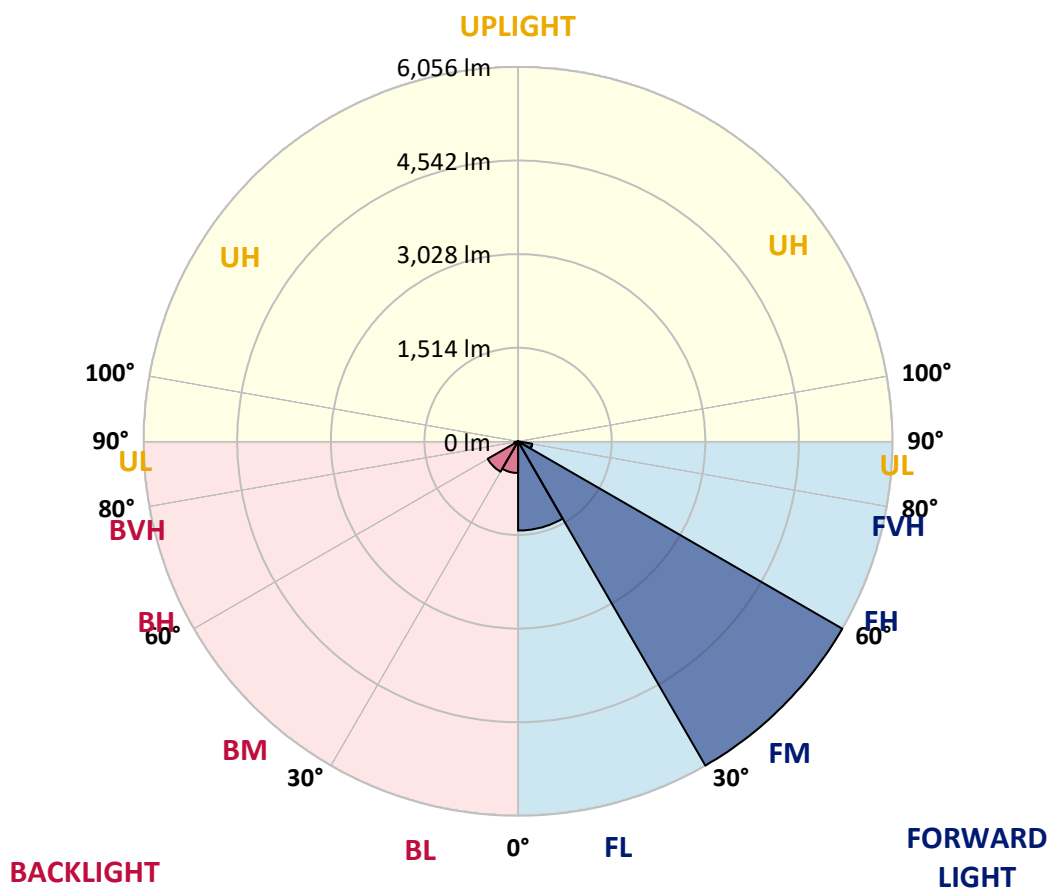
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.7	16.3			
FM (30°-60°)	6056.1	68.3			
FH (60°-80°)	232.2	2.6			G0/660
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	511.6	5.8	B2/1000		
BM (30°-60°)	566.9	6.4	B1/1000		
BH (60°-80°)	60.2	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°	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9
2.5°	3062.8	3087.3	3080.5	3048.4	3013.8	2989.3	2951.3	2939.5	2853.4	2793.4	2730.1
5°	3432.7	3440.3	3431.8	3393.0	3332.2	3273.9	3211.4	3175.1	3030.7	2900.7	2768.1
7.5°	3521.3	3512.0	3528.1	3547.5	3539.1	3513.7	3447.9	3408.2	3235.9	3024.0	2823.0
10°	3244.4	3223.2	3283.2	3383.7	3489.2	3608.3	3591.4	3594.8	3436.0	3179.3	2894.8
12.5°	2877.0	2868.6	2913.3	3029.9	3236.8	3507.0	3572.0	3680.9	3619.3	3347.4	2976.7
15°	2715.7	2720.0	2747.0	2820.4	2969.1	3305.2	3461.4	3658.1	3783.1	3510.4	3067.0
17.5°	2740.2	2755.4	2754.6	2779.1	2869.4	3138.8	3321.2	3586.4	3909.8	3697.8	3170.9
20°	2906.6	2921.8	2899.0	2880.4	2910.8	3096.6	3247.7	3513.7	3995.1	3887.0	3280.7
22.5°	3155.7	3173.4	3119.4	3066.2	3046.8	3165.8	3275.6	3484.2	4060.1	4060.1	3378.6
25°	3457.2	3481.6	3398.0	3303.5	3249.4	3311.9	3394.7	3550.9	4126.8	4215.5	3445.3
27.5°	3794.1	3794.9	3723.2	3616.8	3515.4	3523.0	3572.8	3701.2	4200.3	4382.7	3497.7
30°	4173.2	4175.8	4080.4	3952.8	3825.3	3790.7	3832.9	3930.0	4353.1	4592.9	3570.3
32.5°	4663.0	4674.8	4538.0	4350.6	4185.1	4120.0	4144.5	4246.7	4596.3	4856.4	3679.2
35°	5325.1	5337.7	5135.9	4888.5	4625.0	4527.1	4551.5	4654.6	4948.4	5230.5	3853.2
37.5°	5978.7	5995.5	5791.2	5560.7	5199.2	5037.1	5062.4	5160.4	5477.1	5747.3	4131.9
40°	6430.4	6453.2	6389.9	6234.5	5899.3	5686.5	5716.9	5752.3	6058.9	6365.4	4493.3
42.5°	6668.6	6700.7	6727.7	6807.1	6630.6	6452.4	6400.9	6403.4	6650.8	6995.4	4869.1
45°	6682.9	6714.2	6852.7	7159.2	7293.5	7256.3	7162.6	7099.2	7102.6	7415.1	5103.8
47.5°	6218.5	6276.7	6536.0	7136.4	7641.4	7949.6	7902.3	7752.0	7292.6	7442.9	5078.5
50°	5118.2	5175.6	5646.8	6510.7	7388.0	8226.6	8421.6	8219.8	7168.5	7095.9	4817.5
52.5°	3717.2	3723.2	4028.8	5037.9	6361.2	7715.7	8175.1	8155.6	6979.3	6675.3	4461.2
55°	1765.7	1744.6	2088.3	2843.2	4399.6	6240.4	7014.8	7234.3	6710.8	6371.3	4185.1
57.5°	514.3	524.4	677.2	1109.6	2200.6	3988.3	4804.0	5212.7	5508.3	5238.1	3246.0
60°	230.5	231.4	257.6	337.8	733.0	1855.2	2483.5	2989.3	3293.3	3051.8	1610.4
62.5°	167.2	168.0	178.2	190.8	249.1	628.3	931.4	1241.3	1264.1	827.6	407.9
65°	139.3	139.3	141.0	141.0	149.5	224.6	282.9	364.8	307.4	228.0	159.6
67.5°	112.3	113.2	114.8	114.8	112.3	112.3	121.6	133.4	142.7	176.5	146.9
70°	87.8	87.0	87.0	87.8	85.3	72.6	78.5	89.5	98.0	137.6	127.5
72.5°	68.4	69.2	68.4	65.0	59.1	43.1	46.4	58.3	62.5	86.1	86.1
75°	51.5	52.4	49.0	37.2	24.5	13.5	17.7	28.7	36.3	42.2	31.2
77.5°	6.8	6.8	5.1	5.1	4.2	5.1	5.1	6.8	10.1	10.1	7.6
80°	0.8	0.8	0.8	1.7	2.5	3.4	3.4	3.4	3.4	4.2	4.2
82.5°	0.8	0.8	0.8	0.8	2.5	2.5	3.4	3.4	3.4	3.4	3.4
85°	0.0	0.0	0.0	0.8	1.7	2.5	2.5	3.4	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.8	1.7	2.5	2.5	2.5	3.4	3.4	3.4
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°	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9
2.5°	2692.1	2643.1	2584.0	2543.5	2486.0	2448.0	2394.0	2357.7	2326.4	2302.0	2315.5
5°	2692.9	2615.2	2494.5	2391.5	2279.2	2176.1	2065.5	1978.5	1900.0	1864.5	1884.0
7.5°	2709.8	2598.4	2413.4	2230.2	2014.8	1802.0	1602.8	1440.6	1360.4	1322.4	1334.2
10°	2742.8	2590.8	2323.1	2019.1	1669.5	1379.0	1185.6	1075.8	1031.1	1007.4	1011.6
12.5°	2773.2	2585.7	2205.7	1741.2	1317.3	1069.9	969.4	954.2	963.5	964.4	963.5
15°	2814.5	2576.4	2060.4	1455.8	1053.9	924.7	927.2	949.2	971.1	977.9	976.2
17.5°	2858.4	2562.0	1873.0	1182.2	894.3	882.4	912.0	941.6	963.5	966.9	967.7
20°	2904.0	2532.5	1659.3	965.2	820.0	850.4	883.3	905.2	921.3	926.4	928.0
22.5°	2925.2	2470.0	1412.8	809.8	770.1	810.7	835.2	863.9	868.9	850.4	853.7
25°	2914.2	2364.4	1172.1	705.1	720.3	760.8	797.2	782.8	761.7	748.2	752.4
27.5°	2879.6	2224.3	936.5	628.3	667.1	718.6	722.8	706.8	703.4	692.4	695.8
30°	2842.4	2063.0	753.2	566.6	613.1	667.1	654.4	660.4	661.2	648.5	652.8
32.5°	2819.6	1894.1	599.6	525.2	578.4	588.6	613.9	625.7	626.6	597.0	602.1
35°	2827.2	1727.7	507.5	491.5	546.4	543.8	579.3	586.0	537.1	496.5	500.8
37.5°	2888.8	1574.0	455.2	465.3	490.6	510.0	537.1	492.3	481.3	462.8	465.3
40°	3003.7	1443.2	423.9	449.2	452.6	483.9	442.5	448.4	449.2	437.4	440.0
42.5°	3138.0	1334.2	405.3	440.0	431.5	436.6	395.2	407.0	419.7	414.6	415.5
45°	3205.5	1227.8	389.3	407.9	410.4	362.3	353.0	365.6	381.7	384.2	385.1
47.5°	3145.6	1126.5	372.4	361.4	378.3	330.2	319.2	323.4	342.0	352.1	353.8
50°	2962.3	1010.0	347.1	320.0	310.8	296.4	286.3	287.1	308.2	326.0	329.3
52.5°	2704.8	888.4	305.7	271.1	250.0	260.9	263.5	258.4	277.8	295.6	298.9
55°	2454.8	736.4	242.4	220.4	201.0	224.6	231.4	224.6	230.5	242.4	243.2
57.5°	1728.6	416.3	185.8	182.4	166.4	192.5	203.5	193.4	183.2	190.8	192.5
60°	801.4	217.9	142.7	142.7	138.5	165.5	184.1	169.7	150.3	153.7	156.2
62.5°	250.8	137.6	104.7	98.8	113.2	141.0	156.2	141.9	119.1	119.1	122.4
65°	141.9	118.2	82.8	76.0	92.0	113.2	122.4	107.2	87.0	85.3	85.3
67.5°	131.7	112.3	73.5	61.6	65.0	72.6	76.0	65.9	60.0	59.1	60.0
70°	108.9	93.7	59.1	42.2	39.7	38.8	40.5	38.0	36.3	37.2	39.7
72.5°	67.6	56.6	37.2	25.3	22.0	21.1	21.1	21.1	20.3	20.3	20.3
75°	24.5	21.1	16.9	12.7	11.0	10.1	10.1	11.0	10.1	9.3	8.4
77.5°	7.6	6.8	6.8	6.8	5.9	5.1	4.2	4.2	3.4	2.5	2.5
80°	4.2	4.2	4.2	4.2	3.4	3.4	2.5	1.7	0.8	0.8	0.0
82.5°	4.2	4.2	4.2	3.4	3.4	3.4	2.5	1.7	0.8	0.0	0.0
85°	3.4	3.4	3.4	3.4	3.4	3.4	2.5	1.7	0.8	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	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)