

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: P632687

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632687
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-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8007.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

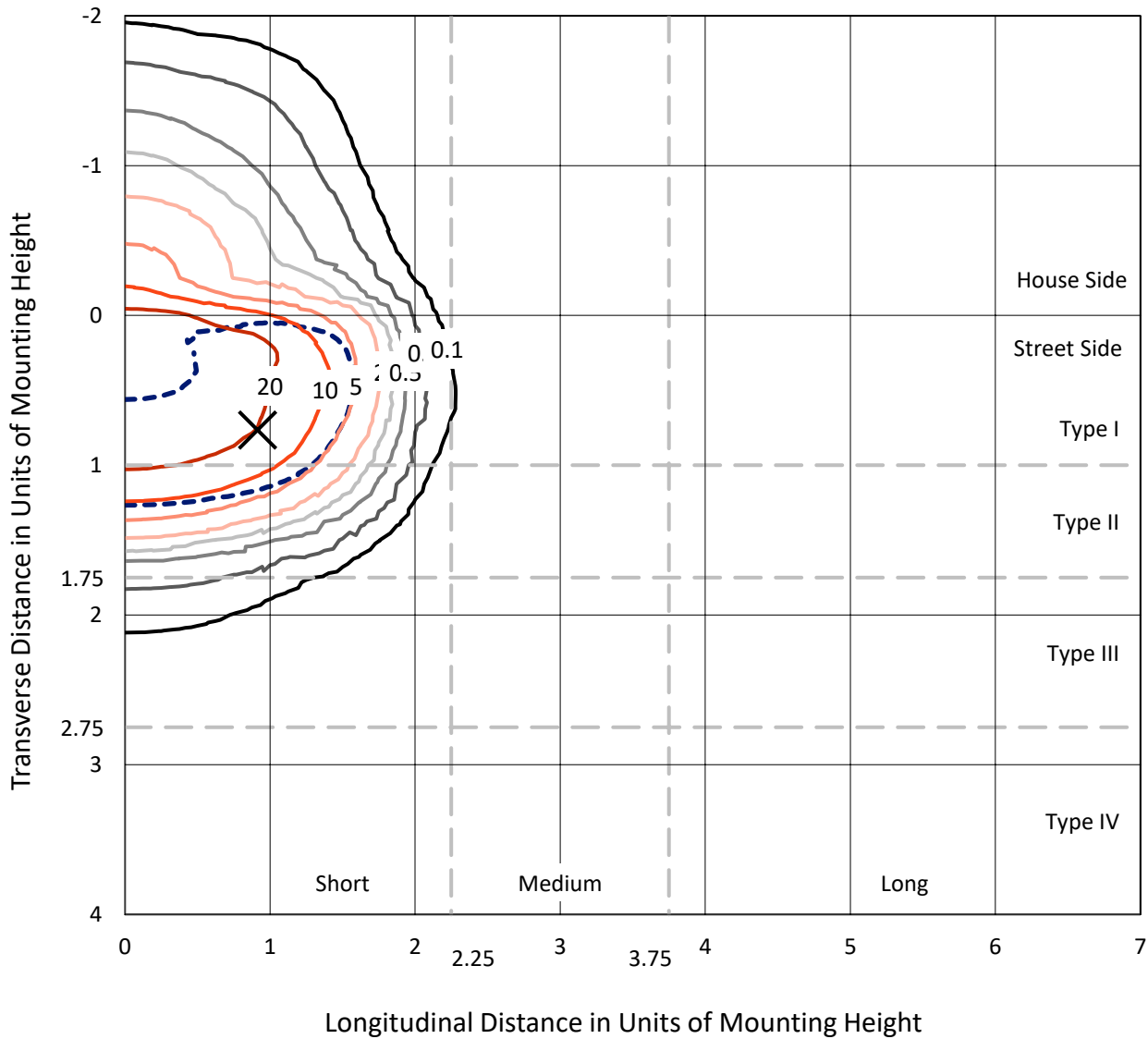
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

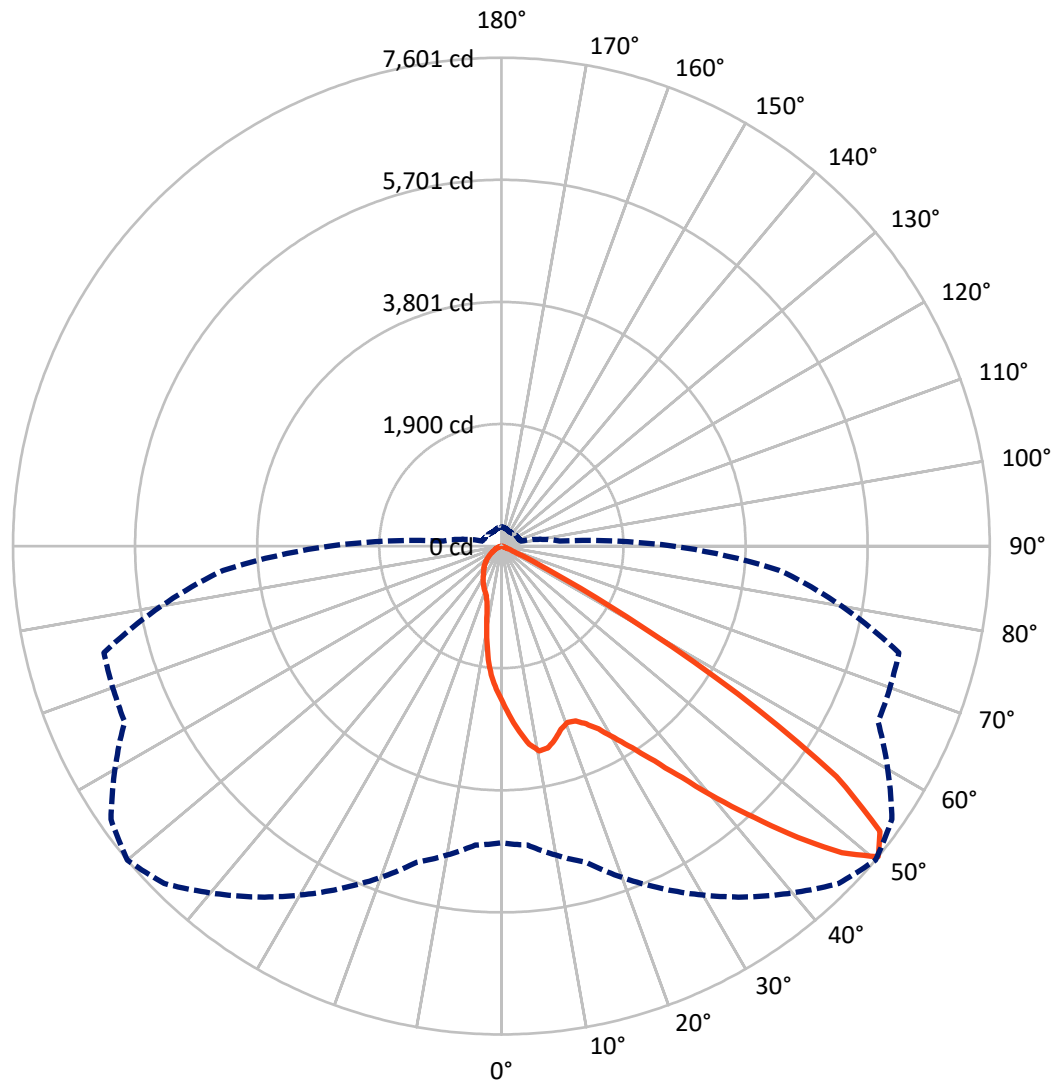
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.1 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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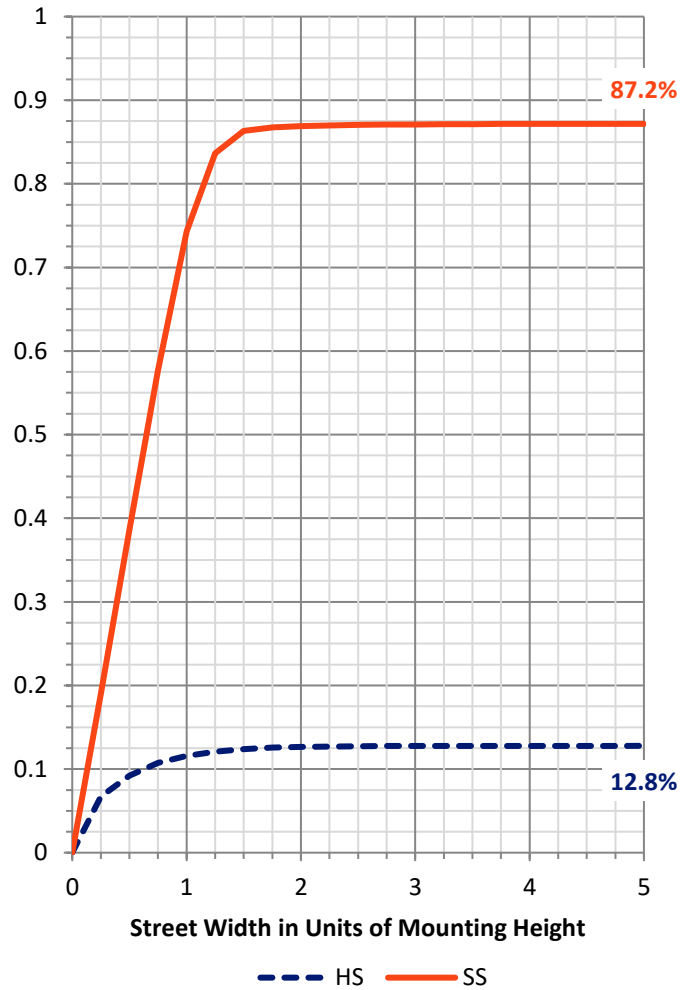
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.9	0.0	1028.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6978.9	0.0	6978.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	8007.8	0.0	8007.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	2.8
10°-20°	580.7	7.3
20°-30°	958.3	12.0
30°-40°	1581.4	19.7
40°-50°	2502.1	31.2
50°-60°	1894.4	23.7
60°-70°	237.1	3.0
70°-80°	26.8	0.3
80°-90°	2.0	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°	8007.8	100.0
0°-180°	8007.8	100.0

Coefficient of Utilization



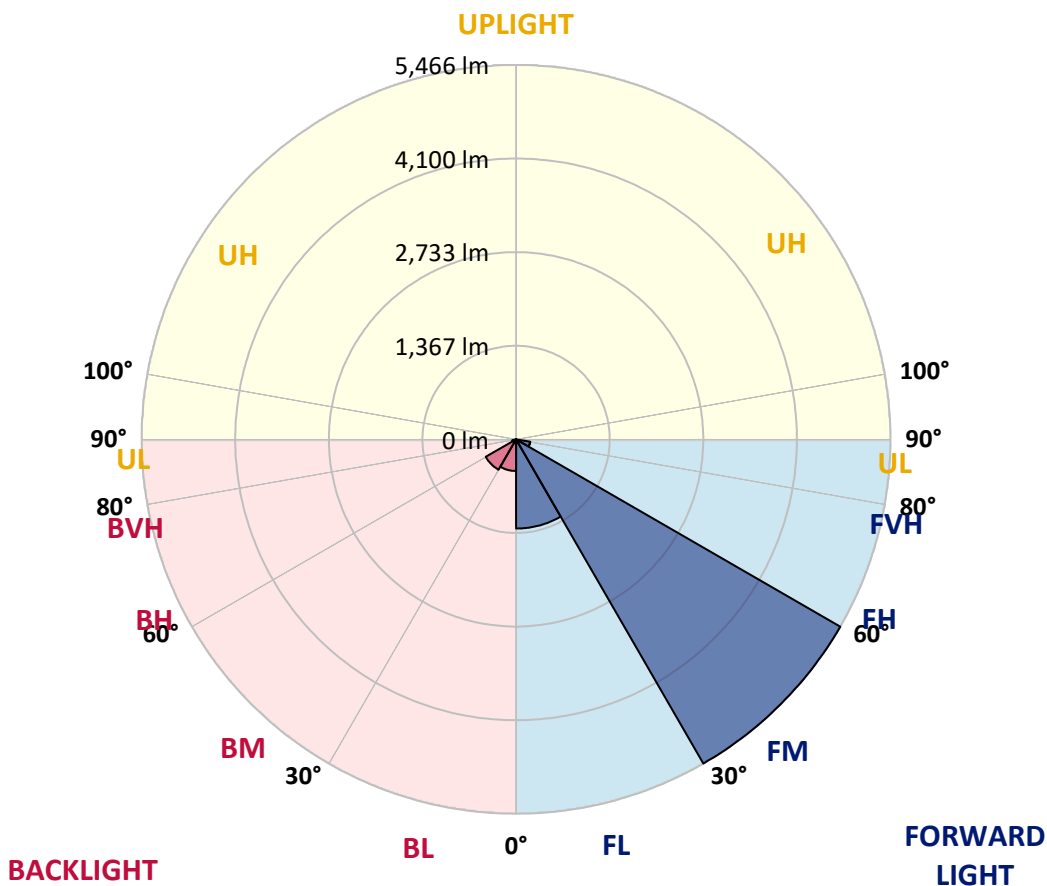
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.2	16.3			
FM (30°-60°)	5466.2	68.3			
FH (60°-80°)	209.6	2.6			G0/660
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	461.8	5.8	B1/500		
BM (30°-60°)	511.7	6.4	B1/1000		
BH (60°-80°)	54.3	0.7	B0/110		G0/110
BVH (80°-90°)	1.1	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0
2.5°	2764.5	2786.6	2780.5	2751.5	2720.2	2698.1	2663.8	2653.2	2575.4	2521.3	2464.2
5°	3098.3	3105.2	3097.5	3062.5	3007.6	2955.0	2898.6	2865.8	2735.5	2618.1	2498.5
7.5°	3178.3	3169.9	3184.4	3202.0	3194.3	3171.5	3112.0	3076.2	2920.7	2729.4	2548.0
10°	2928.3	2909.3	2963.4	3054.1	3149.4	3256.8	3241.6	3244.6	3101.3	2869.6	2612.8
12.5°	2596.8	2589.2	2629.5	2734.7	2921.5	3165.4	3224.1	3322.4	3266.7	3021.3	2686.7
15°	2451.2	2455.0	2479.4	2545.7	2679.9	2983.2	3124.2	3301.8	3414.6	3168.4	2768.3
17.5°	2473.3	2487.0	2486.3	2508.4	2589.9	2833.1	2997.7	3237.0	3528.9	3337.6	2862.0
20°	2623.5	2637.2	2616.6	2599.8	2627.3	2794.9	2931.4	3171.5	3605.9	3508.4	2961.1
22.5°	2848.3	2864.3	2815.5	2767.5	2750.0	2857.4	2956.5	3144.8	3664.6	3664.6	3049.5
25°	3120.4	3142.5	3067.0	2981.7	2932.9	2989.3	3064.0	3205.0	3724.8	3804.8	3109.7
27.5°	3424.5	3425.3	3360.5	3264.5	3173.0	3179.8	3224.8	3340.7	3791.1	3955.8	3157.0
30°	3766.7	3769.0	3682.9	3567.8	3452.7	3421.5	3459.6	3547.2	3929.1	4145.5	3222.5
32.5°	4208.8	4219.5	4096.0	3926.8	3777.4	3718.7	3740.8	3833.0	4148.6	4383.3	3320.9
35°	4806.4	4817.8	4635.6	4412.3	4174.5	4086.1	4108.2	4201.2	4466.4	4721.0	3477.9
37.5°	5396.3	5411.5	5227.1	5019.0	4692.8	4546.5	4569.3	4657.7	4943.6	5187.5	3729.4
40°	5804.1	5824.6	5767.5	5627.2	5324.6	5132.6	5160.0	5192.0	5468.7	5745.4	4055.6
42.5°	6019.0	6048.0	6072.4	6144.0	5984.7	5823.9	5777.4	5779.7	6003.0	6314.0	4394.8
45°	6032.0	6060.2	6185.2	6461.8	6583.0	6549.5	6464.9	6407.7	6410.8	6692.8	4606.7
47.5°	5612.8	5665.3	5899.3	6441.3	6897.0	7175.2	7132.6	6996.9	6582.3	6717.9	4583.8
50°	4619.6	4671.5	5096.8	5876.5	6668.4	7425.2	7601.3	7419.1	6470.2	6404.7	4348.3
52.5°	3355.2	3360.5	3636.4	4547.2	5741.6	6964.1	7378.7	7361.2	6299.5	6025.1	4026.6
55°	1593.7	1574.7	1884.9	2566.3	3971.0	5632.6	6331.5	6529.7	6057.1	5750.7	3777.4
57.5°	464.2	473.3	611.3	1001.5	1986.3	3599.8	4336.1	4705.0	4971.8	4727.9	2929.9
60°	208.1	208.8	232.5	304.9	661.6	1674.5	2241.6	2698.1	2972.5	2754.5	1453.5
62.5°	150.9	151.7	160.8	172.3	224.8	567.1	840.7	1120.4	1141.0	746.9	368.1
65°	125.8	125.8	127.3	127.3	134.9	202.7	255.3	329.3	277.4	205.8	144.1
67.5°	101.4	102.1	103.7	103.7	101.4	101.4	109.8	120.4	128.8	159.3	132.6
70°	79.3	78.5	78.5	79.3	77.0	65.5	70.9	80.8	88.4	124.2	115.1
72.5°	61.7	62.5	61.7	58.7	53.4	38.9	41.9	52.6	56.4	77.7	77.7
75°	46.5	47.3	44.2	33.5	22.1	12.2	16.0	25.9	32.8	38.1	28.2
77.5°	6.1	6.1	4.6	4.6	3.8	4.6	4.6	6.1	9.1	9.1	6.9
80°	0.8	0.8	0.8	1.5	2.3	3.0	3.0	3.0	3.0	3.8	3.8
82.5°	0.8	0.8	0.8	0.8	2.3	2.3	3.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.8	1.5	2.3	2.3	3.0	3.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.8	1.5	2.3	2.3	2.3	3.0	3.0	3.0
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°	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0	2426.0
2.5°	2429.9	2385.6	2332.3	2295.7	2243.9	2209.6	2160.8	2128.0	2099.8	2077.7	2089.9
5°	2430.6	2360.5	2251.5	2158.5	2057.1	1964.2	1864.3	1785.8	1714.9	1682.9	1700.4
7.5°	2445.9	2345.3	2178.3	2012.9	1818.6	1626.5	1446.6	1300.3	1227.9	1193.6	1204.3
10°	2475.6	2338.4	2096.8	1822.4	1506.8	1244.7	1070.1	971.0	930.6	909.3	913.1
12.5°	2503.0	2333.8	1990.8	1571.6	1189.0	965.7	875.0	861.3	869.7	870.4	869.7
15°	2540.4	2325.4	1859.7	1314.0	951.2	834.6	836.9	856.7	876.5	882.6	881.1
17.5°	2580.0	2312.5	1690.5	1067.1	807.2	796.5	823.2	849.8	869.7	872.7	873.5
20°	2621.2	2285.8	1497.7	871.2	740.1	767.5	797.2	817.1	831.5	836.1	837.6
22.5°	2640.2	2229.4	1275.1	730.9	695.1	731.7	753.8	779.7	784.3	767.5	770.6
25°	2630.3	2134.1	1057.9	636.4	650.1	686.7	719.5	706.5	687.5	675.3	679.1
27.5°	2599.1	2007.6	845.3	567.1	602.1	648.6	652.4	638.0	634.9	625.0	628.0
30°	2565.5	1862.0	679.9	511.4	553.3	602.1	590.7	596.0	596.8	585.4	589.2
32.5°	2544.9	1709.6	541.2	474.1	522.1	531.2	554.1	564.8	565.5	538.9	543.4
35°	2551.8	1559.4	458.1	443.6	493.1	490.8	522.9	529.0	484.8	448.2	452.0
37.5°	2607.4	1420.7	410.8	420.0	442.8	460.4	484.8	444.4	434.4	417.7	420.0
40°	2711.1	1302.6	382.6	405.5	408.5	436.7	399.4	404.7	405.5	394.8	397.1
42.5°	2832.3	1204.3	365.9	397.1	389.5	394.1	356.7	367.4	378.8	374.2	375.0
45°	2893.3	1108.2	351.4	368.1	370.4	327.0	318.6	330.0	344.5	346.8	347.6
47.5°	2839.2	1016.8	336.1	326.2	341.5	298.0	288.1	291.9	308.7	317.8	319.4
50°	2673.8	911.6	313.3	288.9	280.5	267.5	258.4	259.1	278.2	294.2	297.3
52.5°	2441.3	801.8	275.9	244.7	225.6	235.5	237.8	233.2	250.8	266.8	269.8
55°	2215.7	664.6	218.7	198.9	181.4	202.7	208.8	202.7	208.1	218.7	219.5
57.5°	1560.2	375.8	167.7	164.6	150.2	173.8	183.7	174.5	165.4	172.3	173.8
60°	723.3	196.6	128.8	128.8	125.0	149.4	166.2	153.2	135.7	138.7	141.0
62.5°	226.4	124.2	94.5	89.2	102.1	127.3	141.0	128.0	107.5	107.5	110.5
65°	128.0	106.7	74.7	68.6	83.1	102.1	110.5	96.8	78.5	77.0	77.0
67.5°	118.9	101.4	66.3	55.6	58.7	65.5	68.6	59.5	54.1	53.4	54.1
70°	98.3	84.6	53.4	38.1	35.8	35.1	36.6	34.3	32.8	33.5	35.8
72.5°	61.0	51.1	33.5	22.9	19.8	19.1	19.1	19.1	18.3	18.3	18.3
75°	22.1	19.1	15.2	11.4	9.9	9.1	9.1	9.9	9.1	8.4	7.6
77.5°	6.9	6.1	6.1	6.1	5.3	4.6	3.8	3.8	3.0	2.3	2.3
80°	3.8	3.8	3.8	3.8	3.0	3.0	2.3	1.5	0.8	0.8	0.0
82.5°	3.8	3.8	3.8	3.0	3.0	3.0	2.3	1.5	0.8	0.0	0.0
85°	3.0	3.0	3.0	3.0	3.0	3.0	2.3	1.5	0.8	0.0	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.3	1.5	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)