

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: P633072

Luminaire Tested: GWS-SA2E-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633072
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-SA2E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8094.6 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

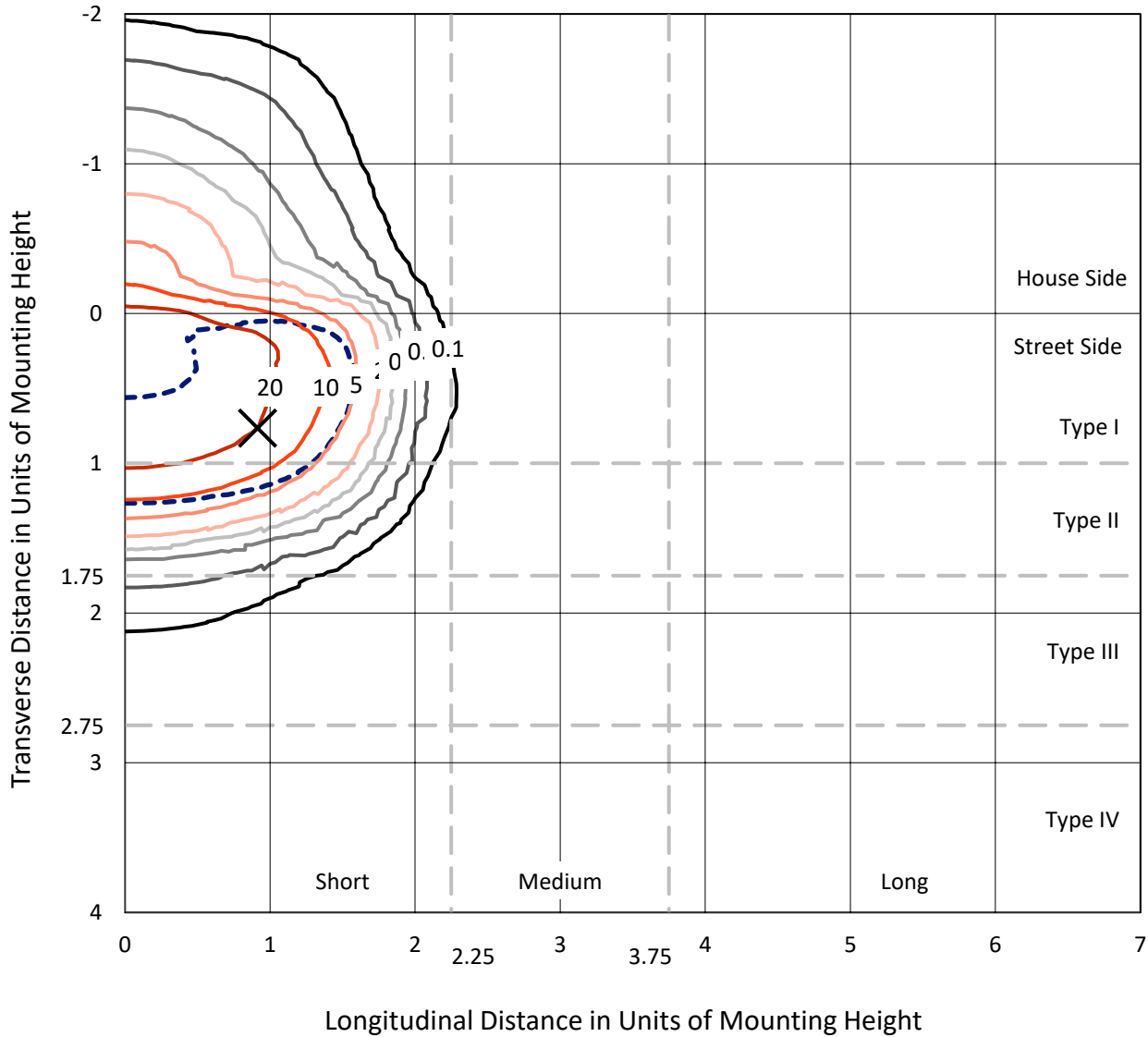
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

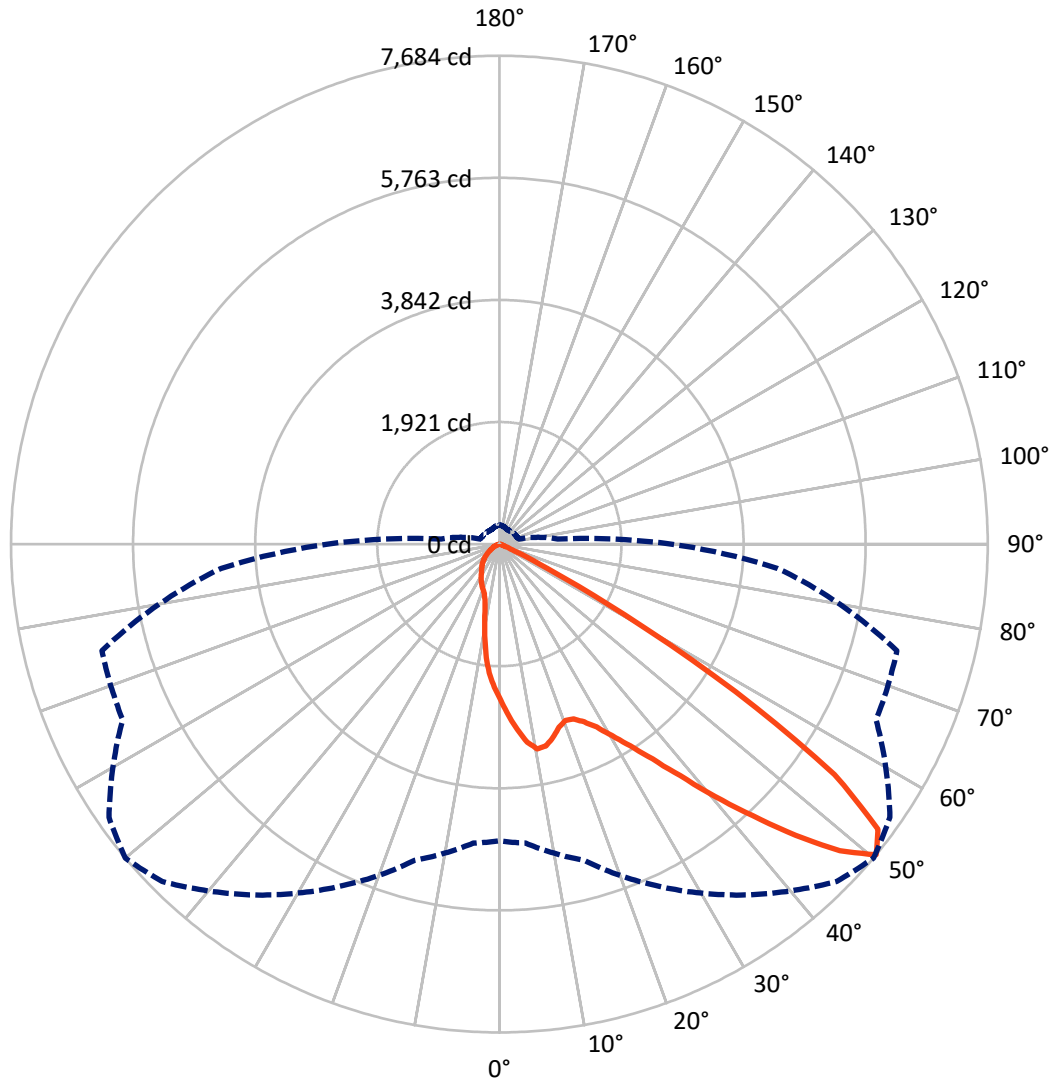
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.4 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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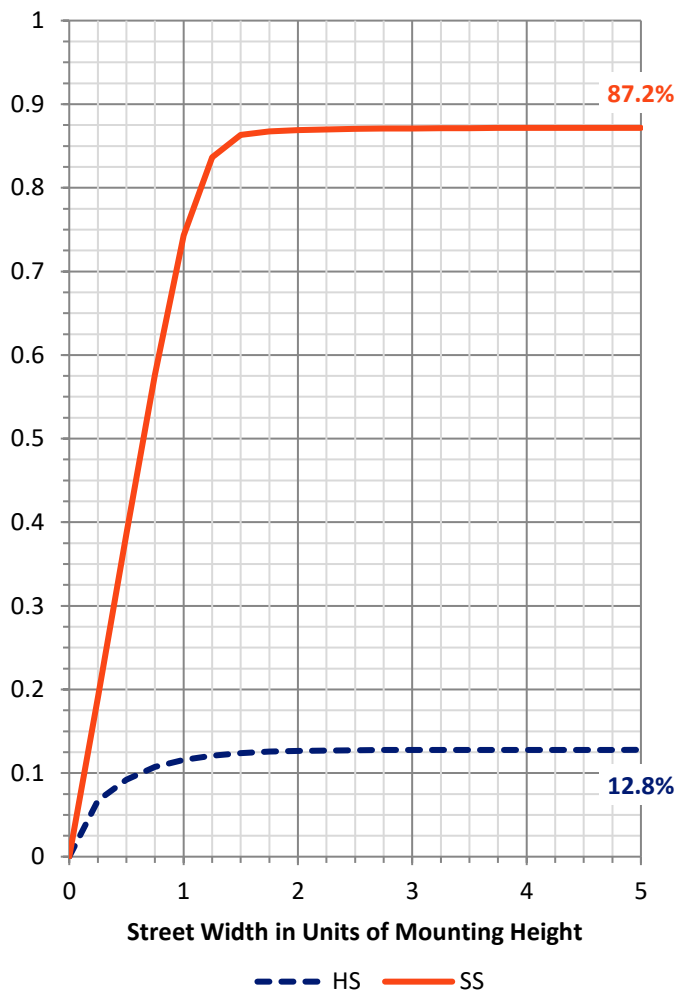
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.0	0.0	1040.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7054.6	0.0	7054.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	8094.6	0.0	8094.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	2.8
10°-20°	586.9	7.3
20°-30°	968.7	12.0
30°-40°	1598.5	19.7
40°-50°	2529.2	31.2
50°-60°	1914.9	23.7
60°-70°	239.7	3.0
70°-80°	27.1	0.3
80°-90°	2.1	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°	8094.6	100.0
0°-180°	8094.6	100.0

Coefficient of Utilization



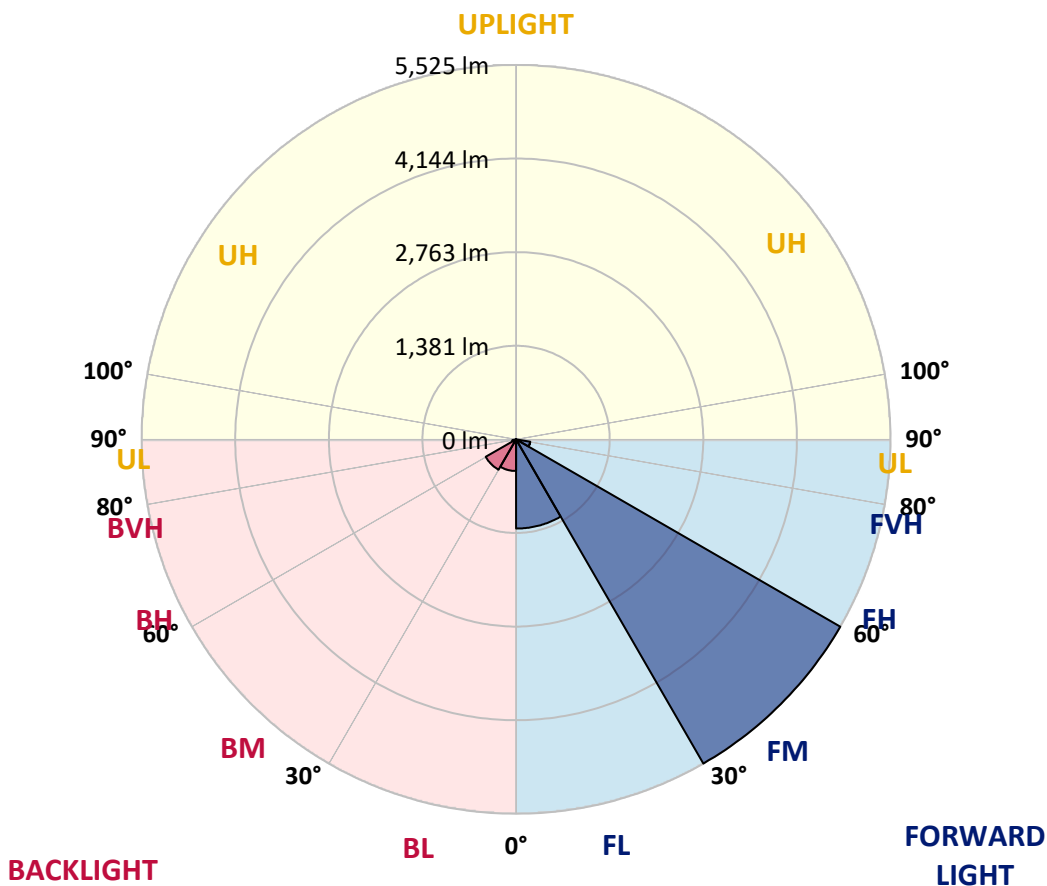
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.3	16.3			
FM (30°-60°)	5525.4	68.3			
FH (60°-80°)	211.9	2.6			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	466.8	5.8	B1/500		
BM (30°-60°)	517.2	6.4	B1/1000		
BH (60°-80°)	54.9	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°	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3
2.5°	2794.4	2816.8	2810.6	2781.3	2749.7	2727.4	2692.7	2681.9	2603.4	2548.6	2490.9
5°	3131.9	3138.8	3131.1	3095.7	3040.2	2987.0	2930.0	2896.9	2765.1	2646.5	2525.5
7.5°	3212.8	3204.3	3218.9	3236.7	3229.0	3205.8	3145.7	3109.5	2952.4	2759.0	2575.6
10°	2960.1	2940.8	2995.5	3087.2	3183.5	3292.1	3276.7	3279.8	3135.0	2900.7	2641.1
12.5°	2624.9	2617.2	2658.1	2764.4	2953.1	3199.7	3259.0	3358.4	3302.1	3054.1	2715.8
15°	2477.8	2481.6	2506.3	2573.3	2708.9	3015.5	3158.1	3337.6	3451.6	3202.8	2798.3
17.5°	2500.1	2514.0	2513.2	2535.6	2618.0	2863.8	3030.2	3272.1	3567.2	3373.8	2893.0
20°	2651.9	2665.8	2645.0	2628.0	2655.7	2825.2	2963.2	3205.8	3645.0	3546.4	2993.2
22.5°	2879.2	2895.4	2846.0	2797.5	2779.8	2888.4	2988.6	3178.9	3704.3	3704.3	3082.6
25°	3154.2	3176.6	3100.3	3014.0	2964.7	3021.7	3097.2	3239.7	3765.2	3846.1	3143.4
27.5°	3461.6	3462.4	3396.9	3299.8	3207.4	3214.3	3259.8	3376.9	3832.2	3998.6	3191.2
30°	3807.6	3809.9	3722.8	3606.5	3490.1	3458.5	3497.1	3585.7	3971.7	4190.5	3257.5
32.5°	4254.4	4265.2	4140.4	3969.4	3818.3	3759.0	3781.4	3874.6	4193.6	4430.9	3356.9
35°	4858.5	4870.0	4685.9	4460.1	4219.8	4130.4	4152.7	4246.7	4514.8	4772.2	3515.6
37.5°	5454.8	5470.2	5283.7	5073.4	4743.7	4595.7	4618.8	4708.2	4997.1	5243.7	3769.8
40°	5867.0	5887.8	5830.0	5688.2	5382.4	5188.2	5215.9	5248.3	5528.0	5807.7	4099.6
42.5°	6084.2	6113.5	6138.2	6210.6	6049.6	5887.0	5840.0	5842.3	6068.1	6382.4	4442.4
45°	6097.3	6125.8	6252.2	6531.9	6654.4	6620.5	6535.0	6477.2	6480.3	6765.3	4656.6
47.5°	5673.6	5726.8	5963.3	6511.1	6971.8	7253.0	7209.9	7072.7	6653.6	6790.7	4633.5
50°	4669.7	4722.1	5152.0	5940.2	6740.7	7505.7	7683.7	7499.6	6540.3	6474.1	4395.4
52.5°	3391.5	3396.9	3675.8	4596.5	5803.8	7039.6	7458.7	7441.0	6367.8	6090.4	4070.3
55°	1611.0	1591.7	1905.3	2594.1	4014.0	5693.6	6400.1	6600.4	6122.8	5813.0	3818.3
57.5°	469.2	478.4	617.9	1012.4	2007.8	3638.8	4383.1	4756.0	5025.6	4779.1	2961.6
60°	210.3	211.1	235.0	308.2	668.8	1692.7	2265.9	2727.4	3004.8	2784.4	1469.2
62.5°	152.5	153.3	162.6	174.1	227.3	573.2	849.8	1132.6	1153.4	755.0	372.1
65°	127.1	127.1	128.7	128.7	136.4	204.9	258.1	332.8	280.4	208.0	145.6
67.5°	102.5	103.2	104.8	104.8	102.5	102.5	110.9	121.7	130.2	161.0	134.1
70°	80.1	79.4	79.4	80.1	77.8	66.3	71.7	81.7	89.4	125.6	116.3
72.5°	62.4	63.2	62.4	59.3	53.9	39.3	42.4	53.2	57.0	78.6	78.6
75°	47.0	47.8	44.7	33.9	22.3	12.3	16.2	26.2	33.1	38.5	28.5
77.5°	6.2	6.2	4.6	4.6	3.9	4.6	4.6	6.2	9.2	9.2	6.9
80°	0.8	0.8	0.8	1.5	2.3	3.1	3.1	3.1	3.1	3.9	3.9
82.5°	0.8	0.8	0.8	0.8	2.3	2.3	3.1	3.1	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.8	1.5	2.3	2.3	3.1	3.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.8	1.5	2.3	2.3	2.3	3.1	3.1	3.1
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°	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3	2452.3
2.5°	2456.2	2411.5	2357.6	2320.6	2268.2	2233.5	2184.2	2151.1	2122.6	2100.2	2112.6
5°	2457.0	2386.1	2275.9	2181.9	2079.4	1985.4	1884.5	1805.2	1733.5	1701.2	1718.9
7.5°	2472.4	2370.7	2201.9	2034.8	1838.3	1644.1	1462.3	1314.4	1241.2	1206.5	1217.3
10°	2502.4	2363.7	2119.5	1842.1	1523.2	1258.1	1081.7	981.6	940.7	919.1	923.0
12.5°	2530.2	2359.1	2012.4	1588.7	1201.9	976.2	884.5	870.6	879.1	879.9	879.1
15°	2567.9	2350.6	1879.9	1328.3	961.5	843.6	846.0	866.0	886.0	892.2	890.6
17.5°	2608.0	2337.5	1708.9	1078.6	815.9	805.1	832.1	859.1	879.1	882.2	882.9
20°	2649.6	2310.6	1513.9	880.6	748.1	775.8	805.9	825.9	840.6	845.2	846.7
22.5°	2668.8	2253.6	1289.0	738.9	702.7	739.6	762.0	788.2	792.8	775.8	778.9
25°	2658.8	2157.3	1069.4	643.3	657.2	694.2	727.3	714.2	694.9	682.6	686.5
27.5°	2627.2	2029.4	854.4	573.2	608.7	655.7	659.5	644.9	641.8	631.8	634.9
30°	2593.3	1882.2	687.2	517.0	559.3	608.7	597.1	602.5	603.3	591.7	595.6
32.5°	2572.5	1728.1	547.0	479.2	527.8	537.0	560.1	570.9	571.7	544.7	549.3
35°	2579.5	1576.3	463.0	448.4	498.5	496.2	528.5	534.7	490.0	453.0	456.9
37.5°	2635.7	1436.1	415.3	424.5	447.6	465.4	490.0	449.2	439.2	422.2	424.5
40°	2740.5	1316.7	386.8	409.9	413.0	441.5	403.7	409.1	409.9	399.1	401.4
42.5°	2863.0	1217.3	369.8	401.4	393.7	398.3	360.6	371.4	382.9	378.3	379.1
45°	2924.6	1120.2	355.2	372.1	374.4	330.5	322.0	333.6	348.2	350.6	351.3
47.5°	2869.9	1027.8	339.8	329.8	345.2	301.2	291.2	295.1	312.0	321.3	322.8
50°	2702.7	921.5	316.7	292.0	283.5	270.4	261.2	262.0	281.2	297.4	300.5
52.5°	2467.8	810.5	278.9	247.3	228.1	238.1	240.4	235.8	253.5	269.7	272.7
55°	2239.7	671.8	221.1	201.1	183.4	204.9	211.1	204.9	210.3	221.1	221.9
57.5°	1577.1	379.8	169.5	166.4	151.8	175.7	185.7	176.4	167.2	174.1	175.7
60°	731.2	198.8	130.2	130.2	126.4	151.0	168.0	154.9	137.1	140.2	142.5
62.5°	228.8	125.6	95.5	90.1	103.2	128.7	142.5	129.4	108.6	108.6	111.7
65°	129.4	107.9	75.5	69.3	84.0	103.2	111.7	97.8	79.4	77.8	77.8
67.5°	120.2	102.5	67.0	56.2	59.3	66.3	69.3	60.1	54.7	53.9	54.7
70°	99.4	85.5	53.9	38.5	36.2	35.4	37.0	34.7	33.1	33.9	36.2
72.5°	61.6	51.6	33.9	23.1	20.0	19.3	19.3	19.3	18.5	18.5	18.5
75°	22.3	19.3	15.4	11.6	10.0	9.2	9.2	10.0	9.2	8.5	7.7
77.5°	6.9	6.2	6.2	6.2	5.4	4.6	3.9	3.9	3.1	2.3	2.3
80°	3.9	3.9	3.9	3.9	3.1	3.1	2.3	1.5	0.8	0.8	0.0
82.5°	3.9	3.9	3.9	3.1	3.1	3.1	2.3	1.5	0.8	0.0	0.0
85°	3.1	3.1	3.1	3.1	3.1	3.1	2.3	1.5	0.8	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	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)