

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: P633020

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
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
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9445.3 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

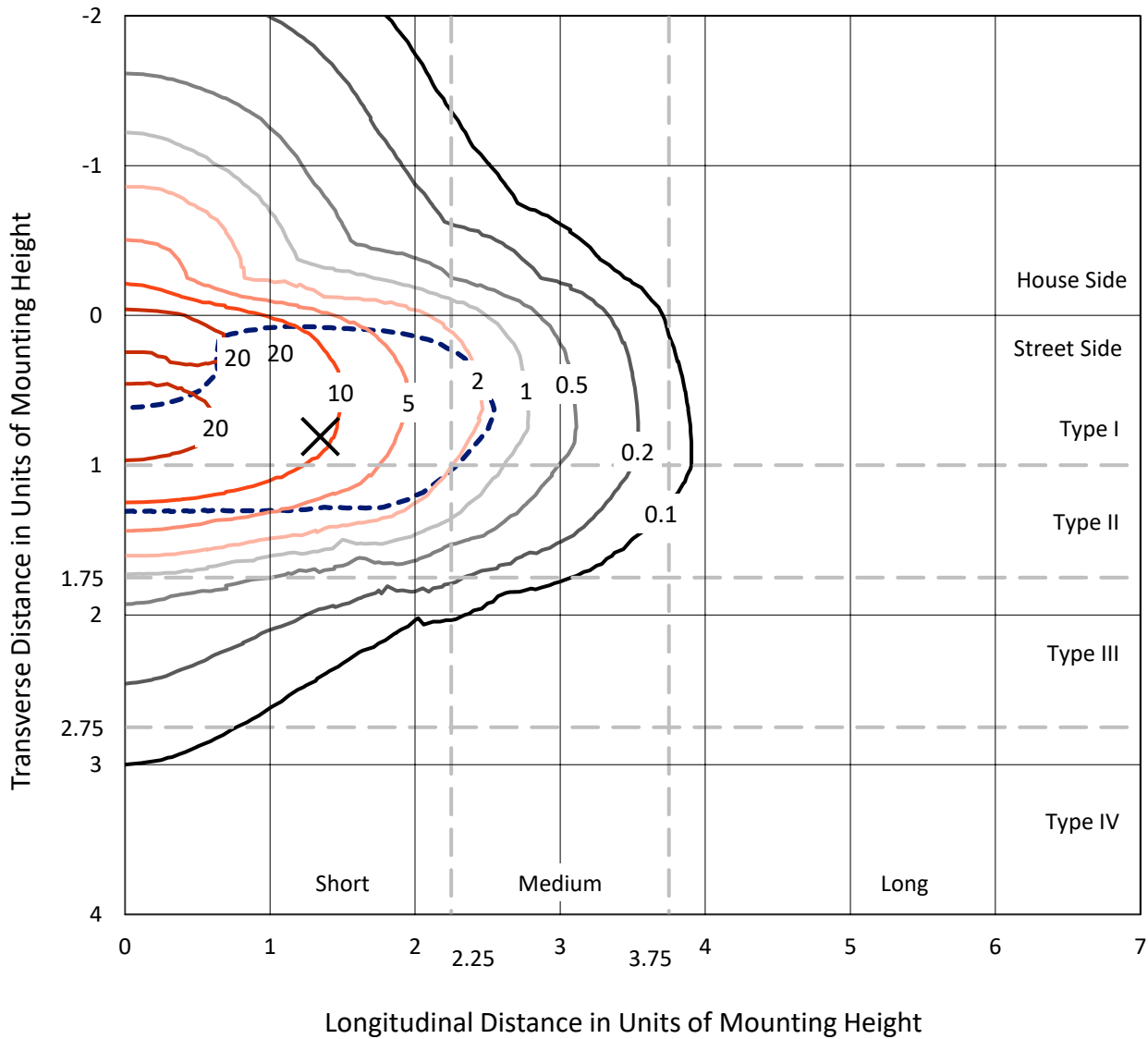
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

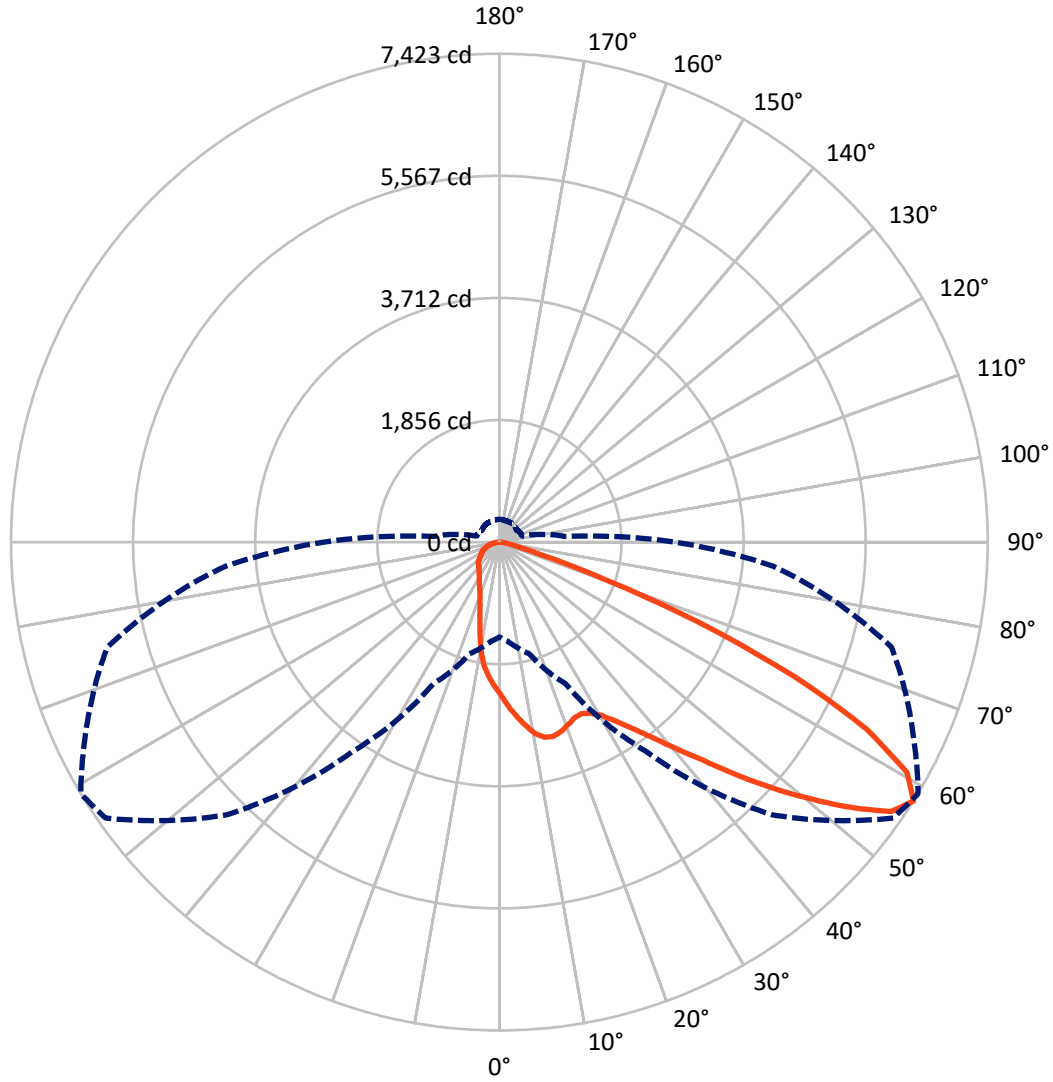
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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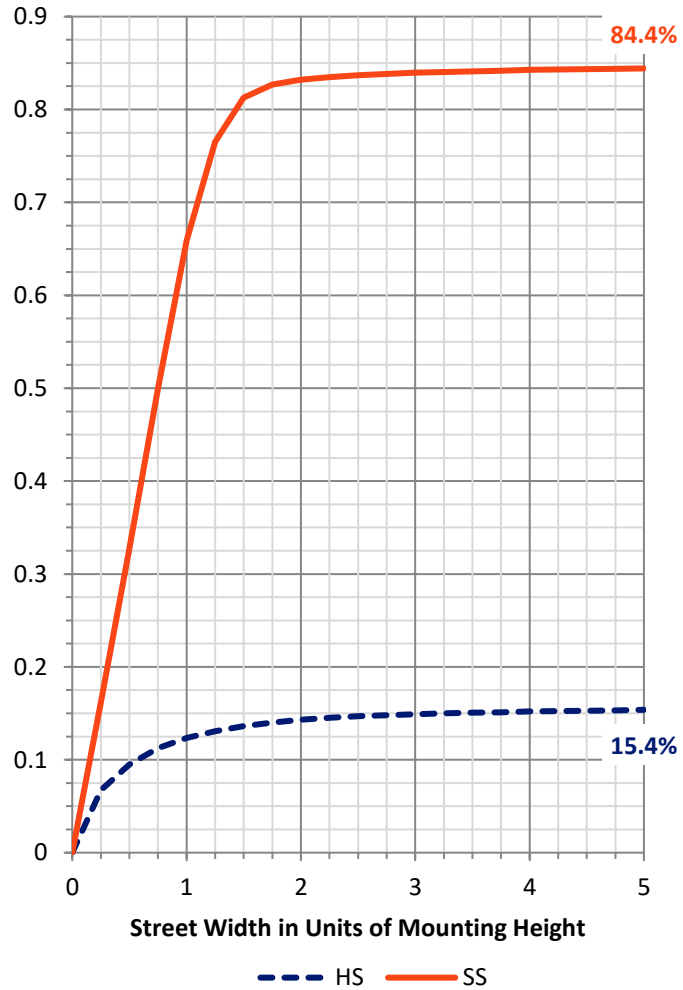
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.9	0.0	1465.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7979.4	0.0	7979.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	9445.3	0.0	9445.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	2.3
10°-20°	545.5	5.8
20°-30°	884.3	9.4
30°-40°	1422.6	15.1
40°-50°	2209.1	23.4
50°-60°	2379.5	25.2
60°-70°	1381.0	14.6
70°-80°	360.5	3.8
80°-90°	47.5	0.5
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°	9445.3	100.0
0°-180°	9445.3	100.0

Coefficient of Utilization



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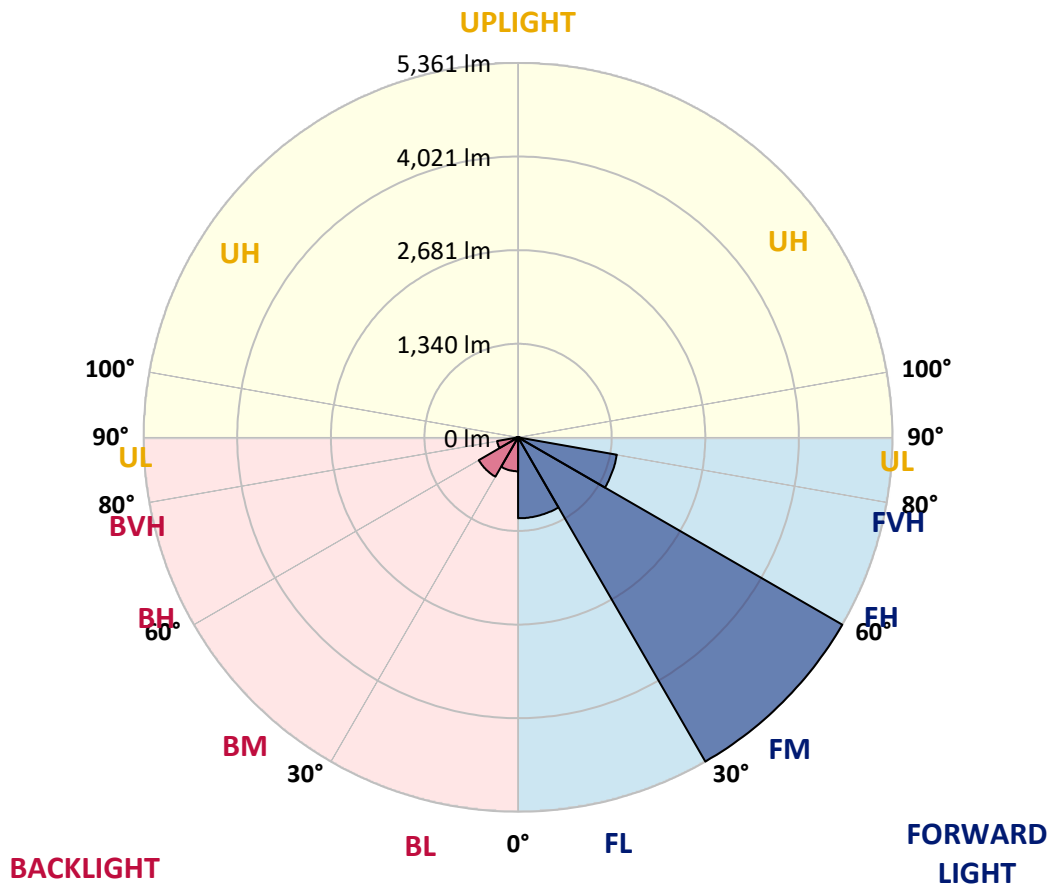
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.9	12.3			
FM (30°-60°)	5361.3	56.8			
FH (60°-80°)	1436.6	15.2			G1/1800
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	486.3	5.1	B1/500		
BM (30°-60°)	649.9	6.9	B1/1000		
BH (60°-80°)	304.9	3.2	B1/500		G1/500
BVH (80°-90°)	24.8	0.3			G1/100
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°	59°	65°	75°	85°
0°	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6
2.5°	2629.8	2607.9	2623.2	2595.9	2584.6	2554.7	2516.1	2490.2	2450.3	2398.4	2353.2
5°	2891.1	2875.8	2879.2	2849.9	2824.0	2774.1	2695.0	2651.1	2583.3	2478.9	2381.8
7.5°	2883.2	2901.1	2911.1	2936.4	2943.7	2939.0	2867.9	2806.7	2732.2	2575.3	2429.0
10°	2584.6	2618.5	2649.1	2735.5	2840.6	2973.6	2990.2	2953.6	2878.5	2698.3	2485.5
12.5°	2259.5	2285.4	2312.6	2416.4	2577.3	2843.3	3023.5	3046.1	3016.2	2820.0	2549.4
15°	2099.9	2111.8	2137.8	2206.3	2334.6	2629.8	2965.6	3064.7	3118.6	2949.0	2621.2
17.5°	2093.2	2098.5	2111.2	2147.7	2236.8	2464.9	2861.2	3027.5	3199.0	3085.3	2705.0
20°	2230.9	2216.9	2208.9	2208.3	2252.1	2409.7	2760.1	2967.6	3236.9	3224.9	2794.7
22.5°	2421.7	2426.4	2409.1	2366.5	2361.2	2449.0	2709.6	2907.1	3248.2	3348.6	2877.8
25°	2692.3	2715.6	2664.4	2583.3	2543.4	2562.7	2740.9	2888.5	3246.9	3451.7	2929.7
27.5°	3008.2	3026.1	2974.3	2867.9	2785.4	2738.9	2834.0	2943.7	3258.2	3540.8	2961.0
30°	3367.9	3373.9	3302.7	3191.0	3070.7	2970.9	2988.9	3057.4	3316.0	3657.8	2997.5
32.5°	3807.4	3832.7	3725.0	3548.1	3379.9	3252.2	3197.0	3240.9	3441.0	3796.1	3054.1
35°	4365.3	4373.9	4237.0	3983.6	3745.6	3568.7	3453.0	3476.3	3631.2	3989.6	3139.2
37.5°	4891.3	4899.9	4754.3	4518.9	4178.5	3936.4	3768.9	3758.2	3874.6	4262.9	3278.1
40°	5225.1	5249.7	5184.5	5036.9	4711.7	4385.3	4157.8	4121.3	4193.8	4597.4	3471.6
42.5°	5404.6	5415.2	5413.9	5433.2	5239.7	4915.2	4596.7	4523.6	4572.1	4958.4	3667.1
45°	5405.9	5432.5	5503.7	5689.2	5697.8	5495.7	5151.3	5036.9	4992.3	5322.1	3871.3
47.5°	5163.9	5192.5	5388.0	5753.0	6022.3	6068.2	5815.5	5586.1	5398.6	5635.3	4038.8
50°	4431.1	4502.9	4875.3	5521.0	6086.2	6527.0	6449.2	6138.0	5759.7	5877.4	4143.9
52.5°	3794.8	3792.1	4021.5	4865.3	5819.5	6729.2	7062.3	6705.9	6116.7	6031.0	4170.5
55°	2778.8	2794.1	3028.8	3721.0	5108.0	6533.7	7399.4	7228.5	6526.3	6112.8	4159.8
57.5°	1440.9	1516.7	1757.4	2374.5	3881.2	5860.7	7309.6	7423.3	6942.6	6170.6	4173.8
60°	728.1	713.5	799.9	1133.7	2248.8	4577.4	6756.4	7118.8	7017.7	6215.8	4182.4
62.5°	486.1	482.1	458.1	525.3	918.9	2710.9	5759.7	6267.7	6495.8	6109.4	4072.1
65°	420.9	412.9	369.0	366.4	446.2	1124.4	4221.7	4927.2	5368.7	5636.7	3808.1
67.5°	379.0	367.0	322.5	300.6	320.5	494.0	2379.1	3304.7	3964.3	4766.9	3229.6
70°	338.5	332.5	287.9	256.0	254.0	301.2	876.4	1705.6	2425.7	3252.2	2361.2
72.5°	303.2	292.6	254.7	224.1	208.8	213.4	380.3	657.0	1255.4	2028.7	1412.3
75°	262.6	254.7	221.4	190.8	172.2	156.3	232.1	303.9	572.5	964.2	666.9
77.5°	202.8	197.5	174.9	151.6	141.0	116.4	141.0	191.5	264.6	406.3	347.1
80°	117.7	121.0	130.3	118.4	103.7	83.1	91.8	110.4	158.9	220.1	196.8
82.5°	59.2	63.2	84.4	68.5	61.8	48.5	54.5	65.2	83.1	121.7	77.1
85°	4.7	4.7	15.3	17.3	21.3	17.3	21.9	26.6	37.9	48.5	25.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.3	6.0	11.3	7.3
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°	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6	2318.6
2.5°	2322.6	2288.7	2248.1	2214.9	2163.7	2136.4	2101.9	2059.3	2042.0	2034.0	2029.4
5°	2327.3	2267.4	2181.0	2101.2	2012.8	1942.9	1865.1	1784.0	1737.5	1726.2	1718.2
7.5°	2344.6	2260.8	2123.1	1991.5	1827.2	1675.0	1526.7	1379.7	1304.6	1276.0	1273.4
10°	2368.5	2258.1	2064.6	1845.9	1568.6	1327.9	1154.3	1039.3	990.8	974.8	969.5
12.5°	2398.4	2256.1	1987.5	1643.7	1270.0	1042.6	943.5	924.9	931.6	930.2	930.2
15°	2436.3	2258.8	1894.4	1415.0	1027.3	905.0	907.0	928.9	949.5	952.9	952.9
17.5°	2477.6	2256.1	1759.4	1185.6	881.7	872.4	903.0	933.6	952.2	954.8	954.8
20°	2522.1	2243.5	1589.2	969.5	817.9	851.8	885.0	909.0	920.3	922.9	922.9
22.5°	2548.7	2207.6	1404.3	820.5	777.3	819.2	841.1	865.7	867.1	845.8	845.1
25°	2544.7	2140.4	1193.6	724.8	734.1	770.7	798.6	781.3	760.0	748.1	746.1
27.5°	2519.4	2039.4	978.8	652.3	682.9	724.1	715.5	700.8	695.5	682.2	680.9
30°	2487.5	1915.0	786.0	595.8	629.7	667.6	654.3	653.0	647.6	633.0	633.0
32.5°	2456.9	1786.7	640.3	553.9	595.8	598.4	617.1	618.4	615.7	590.5	587.8
35°	2448.3	1658.4	541.9	520.6	562.5	561.2	587.8	587.1	541.3	506.0	505.4
37.5°	2474.2	1528.0	483.4	493.4	516.7	533.9	555.2	516.7	501.4	480.1	478.8
40°	2529.4	1407.7	453.5	477.4	487.4	512.7	479.4	482.1	478.1	462.1	460.1
42.5°	2602.6	1305.3	436.9	472.1	470.8	477.4	440.9	451.5	457.5	445.5	443.5
45°	2673.0	1216.2	428.2	452.2	458.8	420.2	412.9	422.9	432.2	427.6	425.6
47.5°	2724.9	1139.0	423.6	424.9	443.5	401.0	389.0	393.6	404.9	406.9	406.3
50°	2740.9	1073.2	418.2	402.3	398.3	381.7	372.4	371.0	384.3	393.6	395.0
52.5°	2710.3	1014.7	404.3	382.3	363.1	365.7	362.4	355.7	369.0	381.7	383.0
55°	2665.1	981.4	382.3	363.1	340.4	351.1	352.4	346.4	355.1	363.7	363.7
57.5°	2668.4	1000.7	361.1	345.1	320.5	334.5	341.8	339.1	339.1	345.8	346.4
60°	2690.3	1028.7	347.1	322.5	300.6	315.2	331.8	329.1	323.2	331.8	331.8
62.5°	2627.2	991.4	337.8	300.6	279.3	296.6	316.5	315.2	308.5	322.5	323.8
65°	2441.0	891.7	327.1	273.3	258.0	277.9	295.2	299.9	293.9	312.5	315.8
67.5°	2046.0	750.0	306.5	247.4	236.7	255.3	272.0	278.6	274.0	295.9	298.6
70°	1525.4	607.1	274.0	218.8	210.8	227.4	242.7	245.4	246.0	272.0	274.6
72.5°	972.8	472.1	230.7	186.8	180.9	193.5	204.8	215.4	220.1	244.7	244.0
75°	542.6	351.1	185.5	158.3	147.6	157.6	170.9	183.5	196.8	232.7	236.7
77.5°	312.5	246.7	147.0	127.0	114.4	125.0	136.3	154.3	194.2	225.4	221.4
80°	176.2	160.2	111.0	93.1	85.1	93.1	101.7	135.6	152.9	166.2	168.2
82.5°	82.5	89.8	75.8	57.2	57.2	62.5	70.5	105.1	115.7	94.4	82.5
85°	29.9	40.6	37.2	29.3	25.9	25.3	43.9	59.8	37.2	33.2	28.6
87.5°	8.0	11.3	10.6	7.3	4.0	3.3	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)