

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: P637048

Luminaire Tested: GWS-SA4C-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13732.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

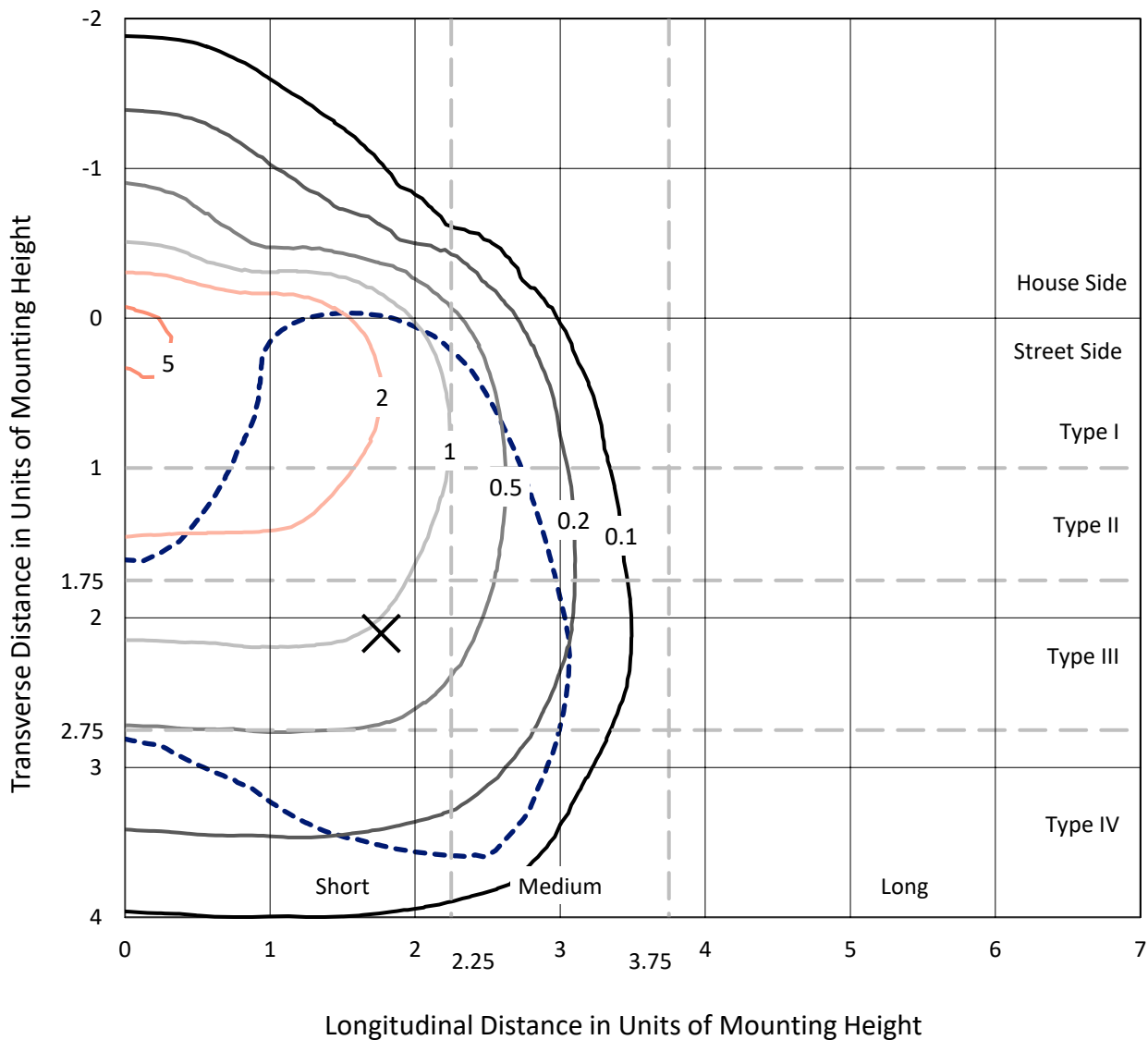
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

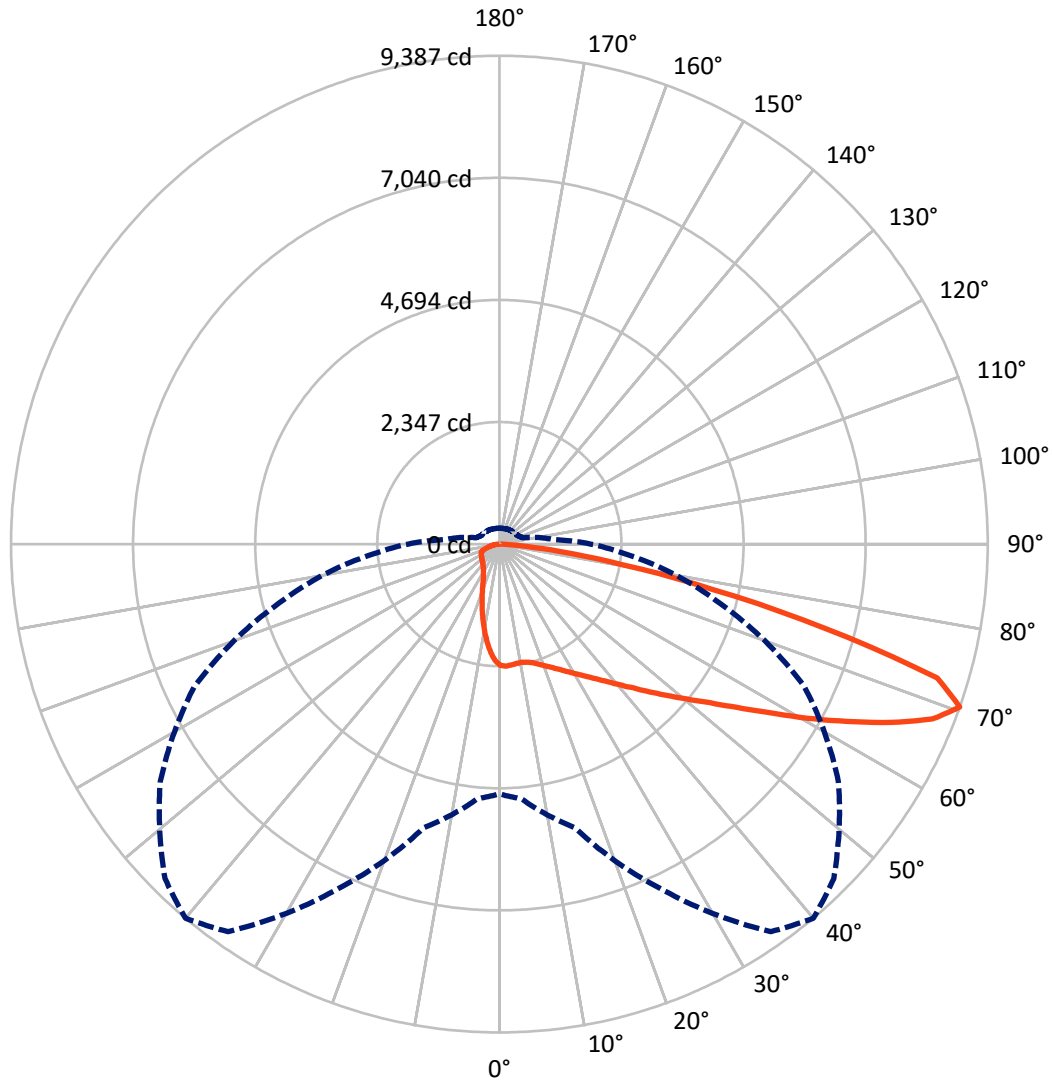
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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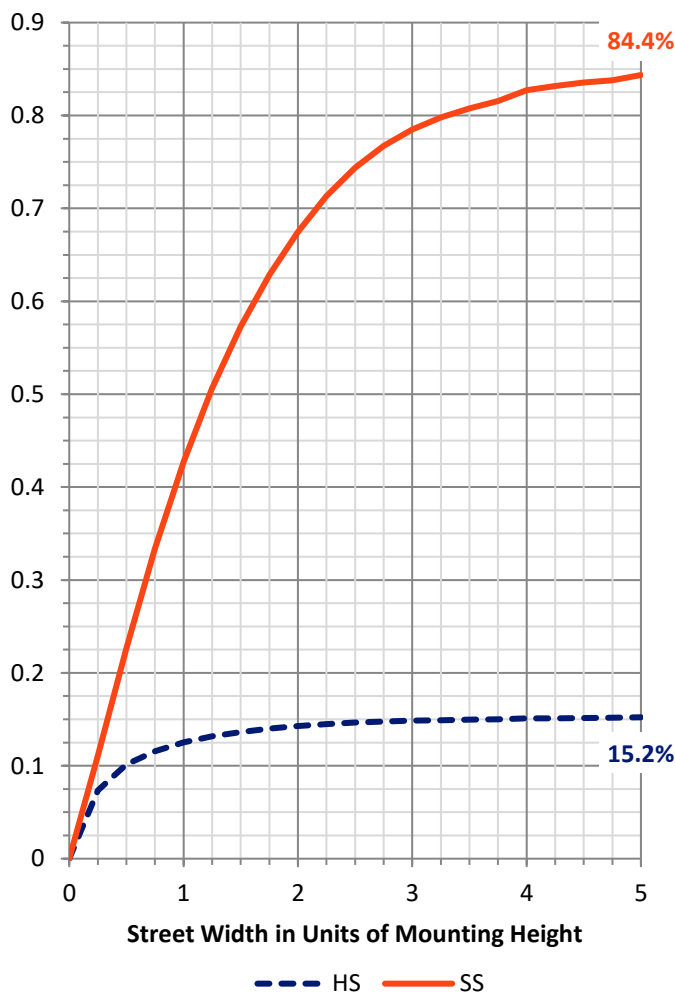
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2115.1	0.0	2115.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11617.1	0.0	11617.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	13732.2	0.0	13732.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	1.5
10°-20°	537.0	3.9
20°-30°	843.1	6.1
30°-40°	1267.7	9.2
40°-50°	1956.7	14.2
50°-60°	2905.8	21.2
60°-70°	3662.7	26.7
70°-80°	2118.1	15.4
80°-90°	235.1	1.7
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°	13732.2	100.0
0°-180°	13732.2	100.0

Coefficient of Utilization



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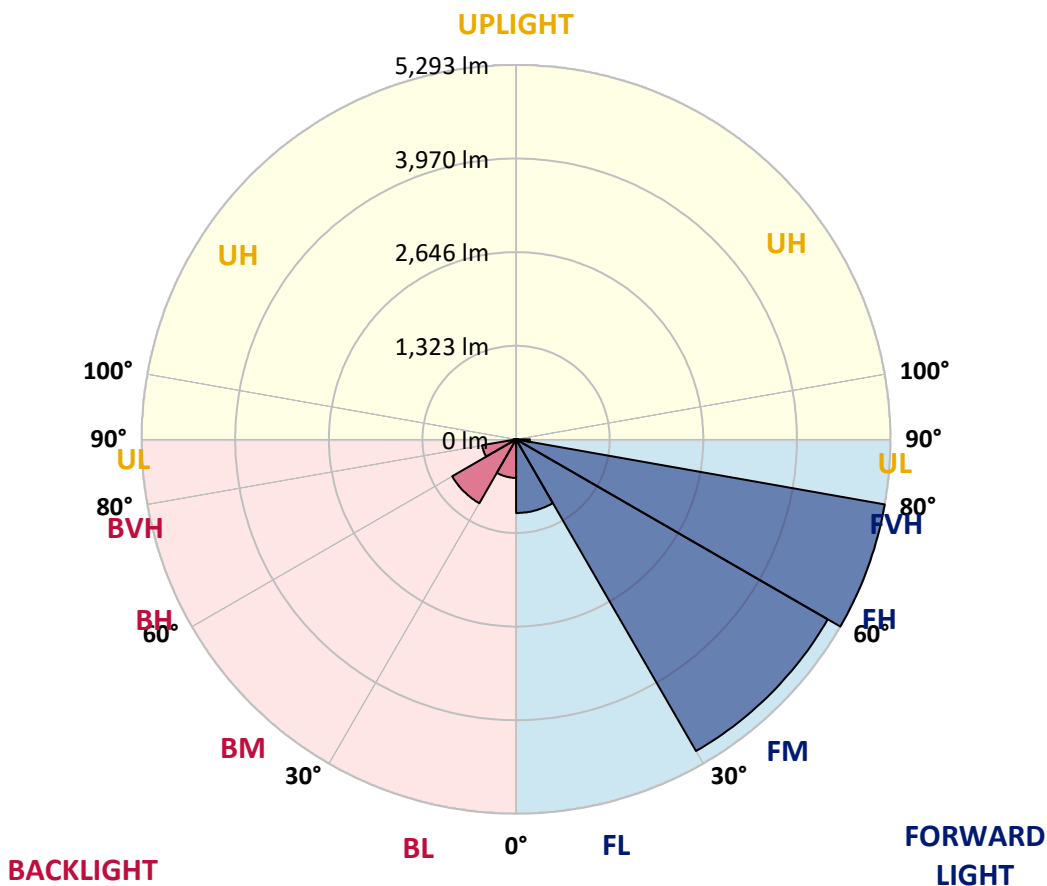
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.0	7.6			
FM (30°-60°)	5087.6	37.0			
FH (60°-80°)	5292.7	38.5			G3/7500
FVH (80°-90°)	195.8	1.4			G2/225
BL (0°-30°)	545.1	4.0	B2/1000		
BM (30°-60°)	1042.6	7.6	B2/2500		
BH (60°-80°)	488.2	3.6	B1/500		G1/500
BVH (80°-90°)	39.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9
2.5°	2346.2	2350.3	2353.4	2357.5	2355.5	2349.3	2354.4	2354.4	2343.2	2330.9	2319.6
5°	2349.3	2354.4	2353.4	2352.4	2344.2	2333.9	2333.9	2327.8	2308.3	2288.8	2270.4
7.5°	2343.2	2342.1	2341.1	2338.0	2328.8	2317.5	2315.5	2303.2	2277.6	2250.9	2224.3
10°	2315.5	2314.5	2317.5	2324.7	2322.7	2312.4	2312.4	2301.1	2271.4	2238.6	2203.8
12.5°	2292.9	2292.9	2305.2	2324.7	2331.9	2327.8	2328.8	2320.6	2286.8	2247.8	2206.8
15°	2296.0	2297.0	2323.7	2355.5	2368.8	2365.7	2366.7	2357.5	2319.6	2280.6	2225.3
17.5°	2316.5	2321.6	2367.8	2411.8	2429.3	2425.2	2418.0	2402.6	2359.6	2315.5	2247.8
20°	2359.6	2367.8	2427.2	2482.6	2503.1	2493.8	2481.5	2450.8	2403.6	2355.5	2272.4
22.5°	2444.6	2449.8	2515.4	2569.7	2586.1	2574.8	2550.2	2506.1	2451.8	2401.6	2302.2
25°	2564.6	2570.7	2633.2	2683.5	2679.4	2666.0	2632.2	2577.9	2513.3	2460.0	2345.2
27.5°	2707.0	2717.3	2778.8	2818.8	2792.1	2772.6	2734.7	2669.1	2596.3	2548.2	2410.8
30°	2862.8	2866.9	2919.2	2959.2	2918.2	2891.5	2845.4	2774.7	2709.1	2673.2	2509.2
32.5°	3013.5	3017.6	3062.7	3085.3	3042.2	3022.7	2982.8	2907.9	2861.8	2842.3	2655.8
35°	3172.4	3171.4	3208.3	3227.7	3183.7	3175.5	3134.5	3077.1	3068.9	3094.5	2870.0
37.5°	3331.3	3322.0	3341.5	3367.1	3342.5	3350.7	3324.1	3304.6	3336.4	3403.0	3155.0
40°	3458.4	3458.4	3478.9	3510.6	3518.8	3554.7	3539.3	3565.0	3667.5	3826.3	3507.6
42.5°	3571.1	3572.1	3615.2	3664.4	3723.8	3779.2	3791.5	3858.1	4070.3	4319.4	3950.4
45°	3689.0	3690.0	3748.4	3820.2	3946.3	4051.8	4076.4	4226.1	4529.5	4832.9	4431.1
47.5°	3825.3	3814.0	3895.0	4014.9	4194.3	4346.0	4409.6	4621.7	5005.1	5378.2	4884.1
50°	3979.1	3955.5	4045.7	4252.7	4474.1	4682.2	4788.8	5031.7	5515.5	5881.5	5310.5
52.5°	4152.3	4139.0	4233.3	4485.4	4823.7	5063.5	5208.0	5526.8	6011.7	6382.7	5648.8
55°	4367.5	4335.8	4472.1	4792.9	5233.7	5539.1	5710.3	6016.8	6553.9	6837.8	5907.1
57.5°	4603.3	4568.4	4750.9	5177.3	5766.7	6101.9	6316.1	6568.2	7064.3	7186.3	6058.8
60°	4857.5	4846.2	5062.5	5628.3	6402.2	6791.7	6946.5	7175.0	7508.2	7388.2	6020.9
62.5°	5090.2	5086.1	5400.7	6117.2	7075.6	7504.1	7627.1	7687.5	7828.0	7374.9	5719.5
65°	5335.1	5370.0	5795.4	6684.1	7847.4	8267.7	8318.9	8165.2	7935.6	7025.4	5102.5
67.5°	5365.9	5433.5	6043.4	7215.0	8579.3	8976.0	8935.0	8346.6	7617.8	6052.7	3999.6
70°	4799.1	4916.9	5647.8	7296.0	9094.9	9387.0	9090.8	7956.1	6464.7	4385.0	2515.4
72.5°	4009.8	4111.3	4757.0	6221.8	8429.6	8801.7	8400.9	6734.3	4568.4	2515.4	1281.3
75°	3121.1	3239.0	3834.5	4945.6	6311.0	6459.6	6258.7	4696.6	2511.3	1037.3	582.2
77.5°	1904.5	1989.5	2452.8	3350.7	4415.7	4193.3	3553.7	2633.2	1101.9	497.1	359.8
80°	842.6	894.8	1208.5	1799.9	2551.2	2411.8	1901.4	1124.4	602.7	315.7	251.1
82.5°	452.0	485.9	595.5	712.4	1120.3	1171.6	950.2	647.8	323.9	180.4	143.5
85°	198.9	218.3	270.6	258.3	368.0	361.8	364.9	444.9	154.8	83.0	93.3
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	11.3	59.5	15.4	24.6	21.5
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°	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9	2331.9
2.5°	2307.3	2288.8	2283.7	2277.6	2266.3	2246.8	2232.5	2216.1	2208.9	2200.7	2201.7
5°	2249.9	2227.3	2205.8	2178.1	2143.3	2104.3	2077.7	2046.9	2030.5	2015.2	2019.3
7.5°	2200.7	2165.8	2121.8	2063.3	2000.8	1931.1	1874.7	1830.7	1800.9	1780.4	1790.7
10°	2169.9	2128.9	2052.1	1956.7	1851.2	1744.6	1663.6	1587.7	1540.6	1503.7	1501.6
12.5°	2163.8	2110.5	1998.8	1860.4	1707.7	1565.2	1446.3	1343.8	1281.3	1235.1	1252.6
15°	2169.9	2102.3	1952.6	1771.2	1578.5	1385.8	1238.2	1120.3	1045.5	1003.5	1000.4
17.5°	2177.1	2094.1	1900.4	1674.9	1443.2	1222.8	1051.7	926.6	849.7	807.7	808.7
20°	2183.3	2081.8	1838.9	1569.3	1305.9	1071.1	893.8	774.9	706.2	675.5	680.6
22.5°	2193.5	2069.5	1773.3	1456.5	1165.4	924.6	768.8	672.4	631.4	610.9	611.9
25°	2213.0	2062.3	1705.6	1333.5	1027.1	807.7	682.7	618.1	592.5	580.2	579.1
27.5°	2253.0	2068.5	1634.9	1214.6	902.0	718.5	627.3	585.3	567.9	559.7	558.6
30°	2319.6	2093.1	1573.4	1093.7	794.4	648.8	589.4	563.8	553.5	546.3	545.3
32.5°	2421.1	2139.2	1506.8	980.9	707.3	597.6	559.7	546.3	539.2	535.1	535.1
35°	2574.8	2223.2	1441.2	882.5	639.6	557.6	536.1	531.0	524.8	522.8	524.8
37.5°	2796.2	2357.5	1381.7	796.4	591.4	526.9	510.5	512.5	507.4	510.5	513.5
40°	3077.1	2536.9	1331.5	725.7	555.6	504.3	487.9	495.1	492.0	495.1	500.2
42.5°	3432.7	2759.3	1293.6	670.4	529.9	485.9	470.5	477.7	475.6	479.7	484.8
45°	3829.4	3052.5	1276.1	631.4	511.5	472.5	456.1	461.3	459.2	462.3	467.4
47.5°	4209.7	3319.0	1291.5	608.9	496.1	461.3	443.8	445.9	444.9	443.8	446.9
50°	4537.7	3531.1	1335.6	601.7	485.9	450.0	433.6	434.6	431.5	425.4	427.4
52.5°	4805.2	3701.3	1362.2	601.7	480.7	437.7	422.3	423.3	417.2	409.0	410.0
55°	4981.5	3770.0	1340.7	600.7	478.7	427.4	411.0	412.1	405.9	395.7	396.7
57.5°	5031.7	3703.3	1250.5	589.4	476.6	419.2	399.8	401.8	397.7	386.4	386.4
60°	4891.3	3459.4	1085.5	563.8	471.5	414.1	391.6	394.6	392.6	381.3	381.3
62.5°	4523.3	3025.8	888.7	524.8	457.2	408.0	384.4	390.5	395.7	389.5	388.5
65°	3834.5	2424.1	722.6	481.8	438.7	397.7	374.1	389.5	400.8	409.0	409.0
67.5°	2877.2	1735.3	589.4	436.7	411.0	377.2	360.8	375.2	383.4	388.5	391.6
70°	1753.8	1020.9	464.3	384.4	371.1	346.5	334.2	319.8	308.5	306.5	307.5
72.5°	857.9	584.3	377.2	327.0	316.7	294.2	266.5	260.4	255.2	252.2	251.1
75°	472.5	406.9	311.6	271.6	253.2	225.5	219.4	209.1	207.1	203.0	204.0
77.5°	334.2	320.8	257.3	220.4	192.7	178.4	181.4	174.3	174.3	171.2	170.2
80°	251.1	252.2	197.8	160.9	142.5	137.4	140.4	140.4	138.4	137.4	136.3
82.5°	158.9	179.4	133.3	103.5	101.5	102.5	101.5	100.5	102.5	99.4	98.4
85°	109.7	129.2	81.0	61.5	61.5	60.5	62.5	61.5	63.6	60.5	60.5
87.5°	24.6	57.4	29.7	18.5	19.5	18.5	19.5	20.5	22.6	23.6	23.6
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)