

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: P637543

Luminaire Tested: GWS-SA4D-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637543
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-SA4D-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: 17324 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

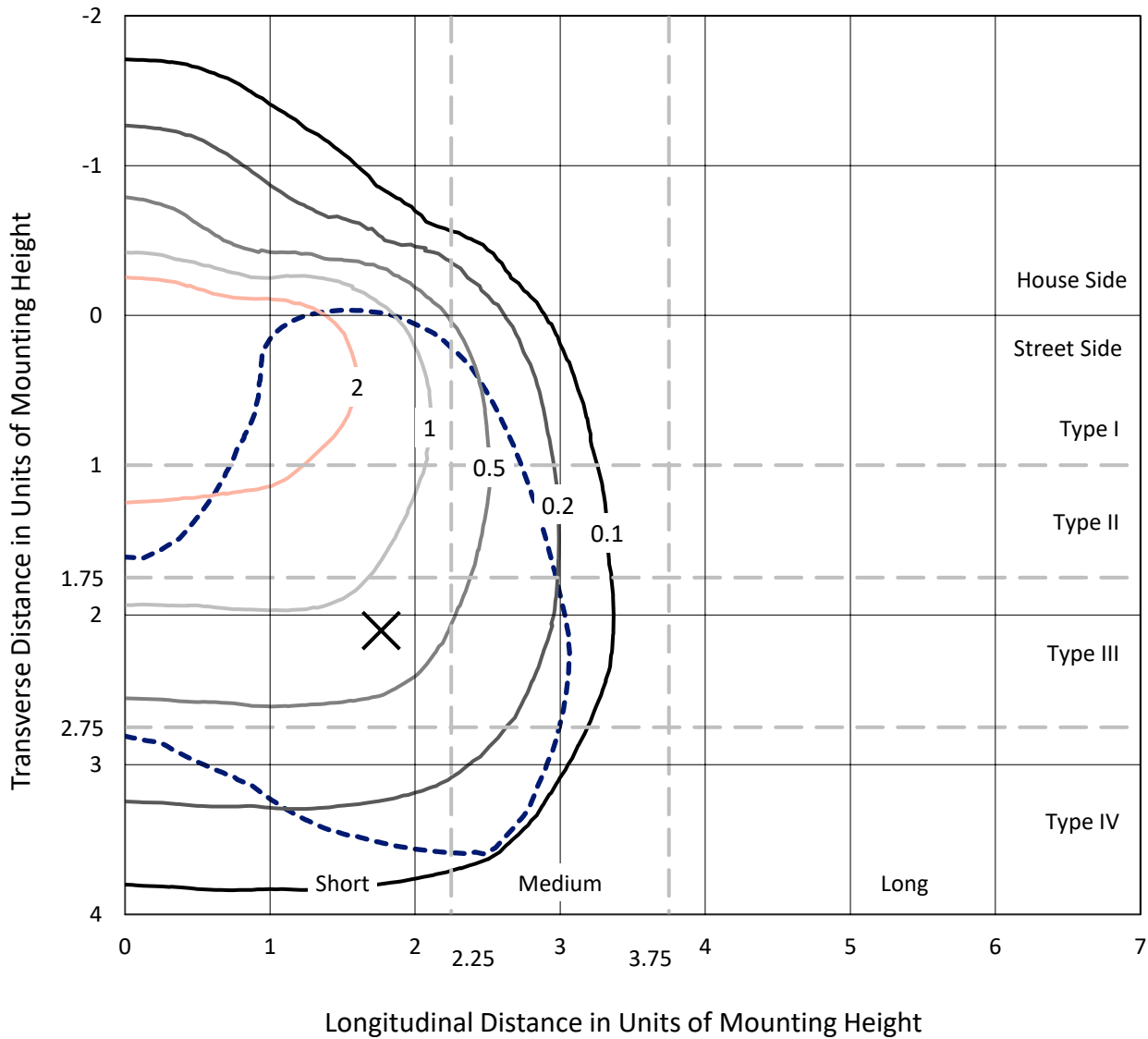
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

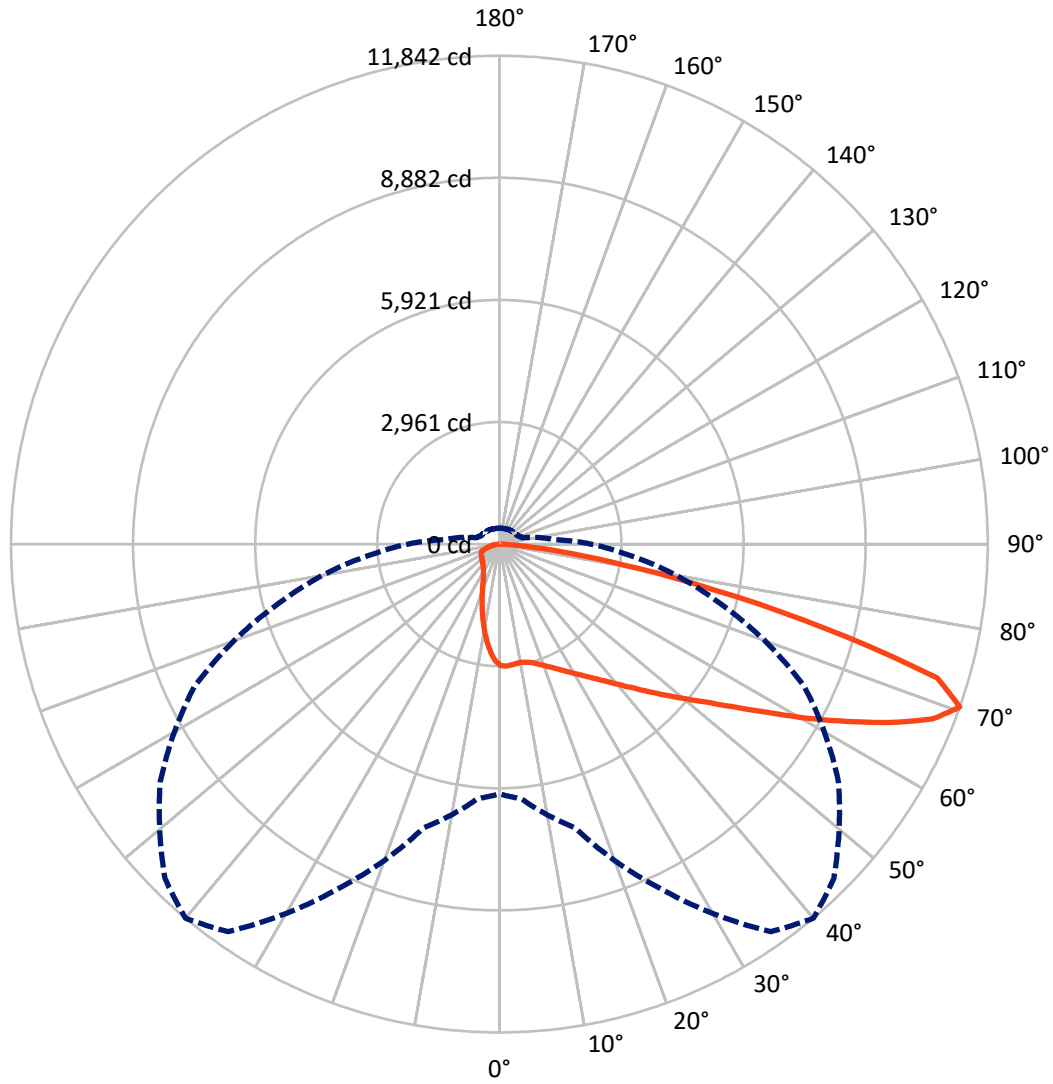
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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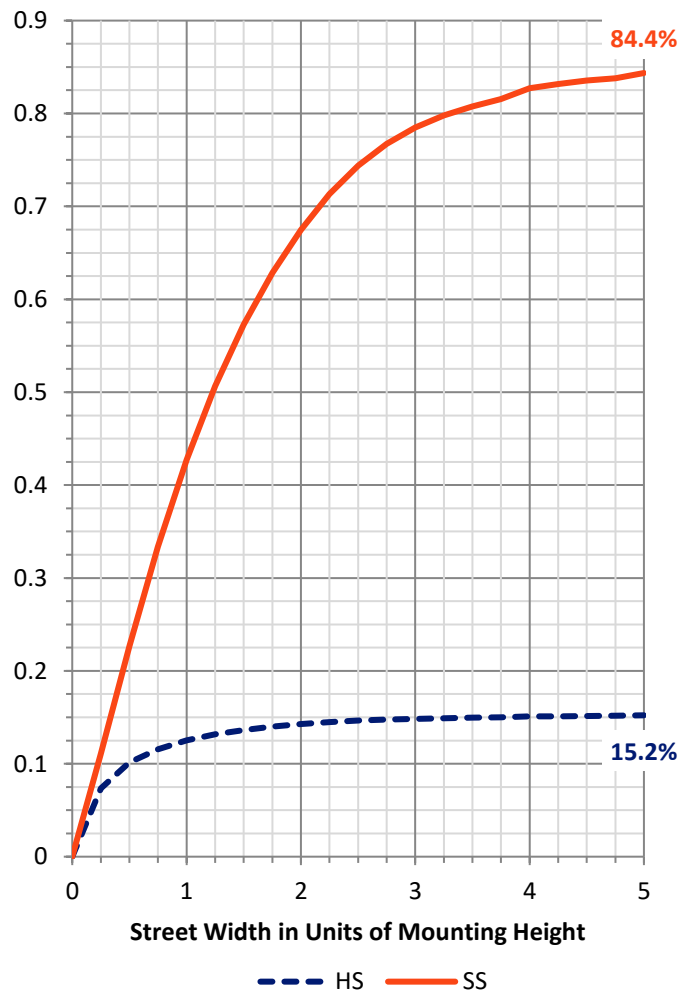
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2668.3	0.0	2668.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	14655.7	0.0	14655.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	17324.0	0.0	17324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	1.5
10°-20°	677.4	3.9
20°-30°	1063.7	6.1
30°-40°	1599.2	9.2
40°-50°	2468.5	14.2
50°-60°	3665.9	21.2
60°-70°	4620.8	26.7
70°-80°	2672.2	15.4
80°-90°	296.6	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°	17324.0	100.0
0°-180°	17324.0	100.0

Coefficient of Utilization



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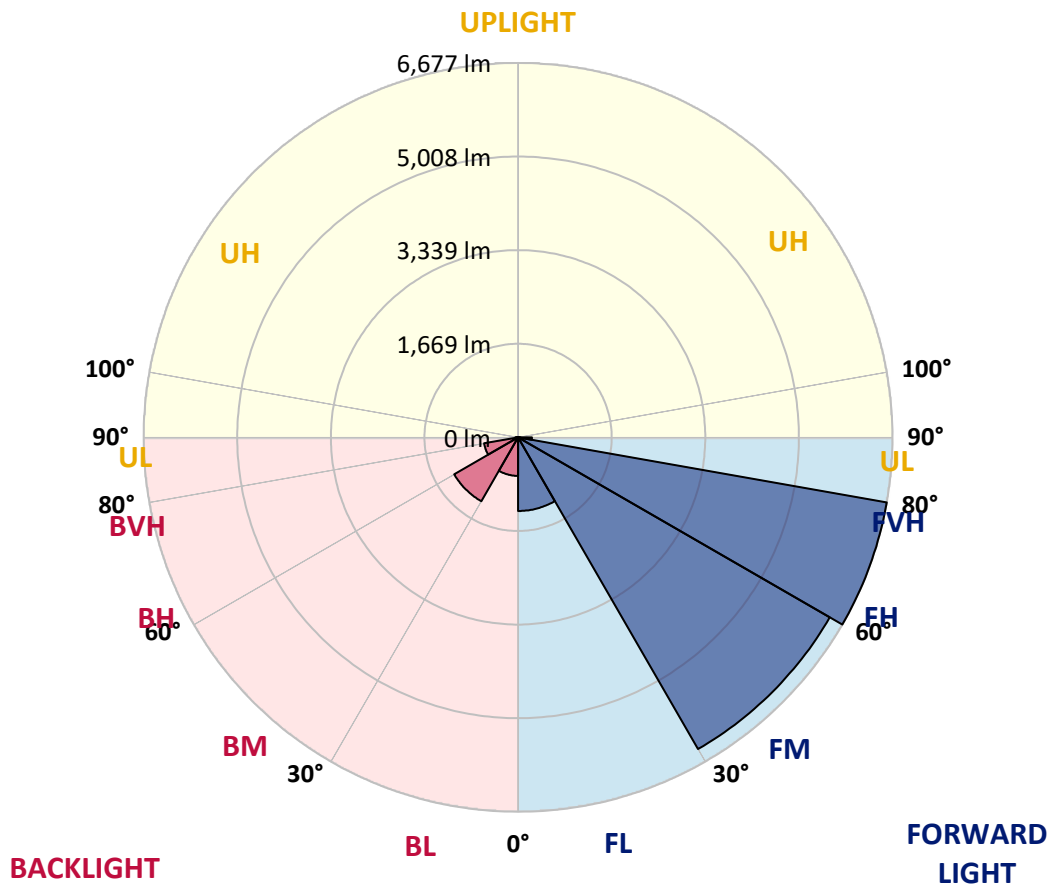
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.3	7.6			
FM (30°-60°)	6418.3	37.0			
FH (60°-80°)	6677.1	38.5			G3/7500
FVH (80°-90°)	247.0	1.4			G3/500
BL (0°-30°)	687.7	4.0	B2/1000		
BM (30°-60°)	1315.3	7.6	B2/2500		
BH (60°-80°)	615.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	49.6	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°	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8
2.5°	2959.9	2965.1	2969.0	2974.1	2971.6	2963.8	2970.3	2970.3	2956.0	2940.5	2926.3
5°	2963.8	2970.3	2969.0	2967.7	2957.3	2944.4	2944.4	2936.6	2912.1	2887.5	2864.2
7.5°	2956.0	2954.7	2953.5	2949.6	2937.9	2923.7	2921.1	2905.6	2873.3	2839.7	2806.0
10°	2921.1	2919.8	2923.7	2932.8	2930.2	2917.2	2917.2	2903.0	2865.5	2824.1	2780.2
12.5°	2892.7	2892.7	2908.2	2932.8	2941.8	2936.6	2937.9	2927.6	2884.9	2835.8	2784.1
15°	2896.6	2897.8	2931.5	2971.6	2988.4	2984.5	2985.8	2974.1	2926.3	2877.2	2807.3
17.5°	2922.4	2928.9	2987.1	3042.7	3064.7	3059.5	3050.4	3031.0	2976.7	2921.1	2835.8
20°	2976.7	2987.1	3062.1	3131.9	3157.8	3146.1	3130.6	3091.8	3032.3	2971.6	2866.8
22.5°	3084.1	3090.5	3173.3	3241.8	3262.5	3248.3	3217.2	3161.6	3093.1	3029.7	2904.3
25°	3235.3	3243.1	3322.0	3385.3	3380.2	3363.4	3320.7	3252.2	3170.7	3103.5	2958.6
27.5°	3415.1	3428.0	3505.6	3556.0	3522.4	3497.8	3450.0	3367.2	3275.4	3214.7	3041.4
30°	3611.6	3616.8	3682.8	3733.2	3681.5	3647.8	3589.7	3500.4	3417.7	3372.4	3165.5
32.5°	3801.7	3806.9	3863.8	3892.2	3837.9	3813.4	3762.9	3668.5	3610.3	3585.8	3350.4
35°	4002.2	4000.9	4047.4	4072.0	4016.4	4006.0	3954.3	3881.9	3871.6	3903.9	3620.7
37.5°	4202.6	4191.0	4215.5	4247.8	4216.8	4227.2	4193.5	4169.0	4209.1	4293.1	3980.2
40°	4362.9	4362.9	4388.8	4428.9	4439.2	4484.5	4465.1	4497.4	4626.7	4827.2	4425.0
42.5°	4505.2	4506.5	4560.8	4622.9	4697.9	4767.7	4783.2	4867.2	5134.9	5449.1	4983.6
45°	4653.9	4655.2	4728.9	4819.4	4978.5	5111.6	5142.7	5331.5	5714.2	6097.0	5590.1
47.5°	4825.9	4811.6	4913.8	5065.1	5291.4	5482.8	5562.9	5830.6	6314.2	6784.9	6161.6
50°	5019.8	4990.1	5103.9	5365.1	5644.4	5906.9	6041.4	6347.9	6958.2	7419.8	6699.6
52.5°	5238.4	5221.6	5340.5	5658.6	6085.4	6387.9	6570.3	6972.4	7584.1	8052.2	7126.3
55°	5509.9	5469.8	5641.8	6046.6	6602.6	6987.9	7203.9	7590.5	8268.1	8626.3	7452.2
57.5°	5807.3	5763.4	5993.5	6531.5	7275.0	7697.9	7968.1	8286.2	8912.1	9066.0	7643.5
60°	6128.0	6113.8	6386.6	7100.4	8076.7	8568.1	8763.4	9051.7	9472.0	9320.7	7595.7
62.5°	6421.6	6416.4	6813.4	7717.3	8926.3	9466.8	9622.0	9698.3	9875.4	9303.9	7215.5
65°	6730.6	6774.6	7311.2	8432.3	9900.0	10430.2	10494.8	10300.9	10011.2	8862.9	6437.1
67.5°	6769.4	6854.7	7624.1	9102.2	10823.3	11323.7	11272.0	10529.8	9610.4	7635.8	5045.7
70°	6054.3	6203.0	7125.0	9204.3	11473.7	11842.3	11468.5	10037.1	8155.6	5531.9	3173.3
72.5°	5058.6	5186.6	6001.3	7849.1	10634.5	11103.9	10598.3	8495.7	5763.4	3173.3	1616.4
75°	3937.5	4086.2	4837.5	6239.2	7961.6	8149.1	7895.7	5925.0	3168.1	1308.6	734.5
77.5°	2402.6	2509.9	3094.4	4227.2	5570.7	5290.1	4483.2	3322.0	1390.1	627.2	453.9
80°	1062.9	1128.9	1524.6	2270.7	3218.5	3042.7	2398.7	1418.5	760.3	398.3	316.8
82.5°	570.3	612.9	751.3	898.7	1413.4	1478.0	1198.7	817.2	408.6	227.6	181.0
85°	250.9	275.4	341.4	325.9	464.2	456.5	460.3	561.2	195.3	104.7	117.7
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	14.2	75.0	19.4	31.0	27.2
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°	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8	2941.8
2.5°	2910.8	2887.5	2881.0	2873.3	2859.1	2834.5	2816.4	2795.7	2786.6	2776.3	2777.6
5°	2838.4	2809.9	2782.8	2747.8	2703.9	2654.7	2621.1	2582.3	2561.6	2542.2	2547.4
7.5°	2776.3	2732.3	2676.7	2603.0	2524.1	2436.2	2365.1	2309.5	2272.0	2246.1	2259.1
10°	2737.5	2685.8	2588.8	2468.5	2335.3	2200.9	2098.7	2003.0	1943.5	1897.0	1894.4
12.5°	2729.7	2662.5	2521.6	2347.0	2154.3	1974.6	1824.6	1695.3	1616.4	1558.2	1580.2
15°	2737.5	2652.2	2463.4	2234.5	1991.4	1748.3	1562.1	1413.4	1319.0	1265.9	1262.1
17.5°	2746.6	2641.8	2397.4	2112.9	1820.7	1542.7	1326.7	1169.0	1072.0	1019.0	1020.3
20°	2754.3	2626.3	2319.8	1979.7	1647.4	1351.3	1127.6	977.6	890.9	852.2	858.6
22.5°	2767.2	2610.8	2237.1	1837.5	1470.3	1166.4	969.8	848.3	796.6	770.7	772.0
25°	2791.8	2601.7	2151.7	1682.3	1295.7	1019.0	861.2	779.7	747.4	731.9	730.6
27.5°	2842.2	2609.5	2062.5	1532.3	1137.9	906.5	791.4	738.4	716.4	706.0	704.7
30°	2926.3	2640.5	1984.9	1379.7	1002.2	818.5	743.5	711.2	698.3	689.2	687.9
32.5°	3054.3	2698.7	1900.9	1237.5	892.2	753.9	706.0	689.2	680.2	675.0	675.0
35°	3248.3	2804.7	1818.1	1113.4	806.9	703.4	676.3	669.8	662.1	659.5	662.1
37.5°	3527.6	2974.1	1743.1	1004.7	746.1	664.7	644.0	646.6	640.1	644.0	647.8
40°	3881.9	3200.4	1679.7	915.5	700.9	636.2	615.5	624.6	620.7	624.6	631.0
42.5°	4330.6	3481.0	1631.9	845.7	668.5	612.9	593.5	602.6	600.0	605.2	611.6
45°	4831.0	3850.9	1609.9	796.6	645.3	596.1	575.4	581.9	579.3	583.2	589.7
47.5°	5310.8	4187.1	1629.3	768.1	625.9	581.9	559.9	562.5	561.2	559.9	563.8
50°	5724.6	4454.7	1684.9	759.1	612.9	567.7	547.0	548.3	544.4	536.6	539.2
52.5°	6062.1	4669.4	1718.5	759.1	606.5	552.2	532.8	534.1	526.3	515.9	517.2
55°	6284.5	4756.0	1691.4	757.8	603.9	539.2	518.5	519.8	512.1	499.1	500.4
57.5°	6347.9	4672.0	1577.6	743.5	601.3	528.9	504.3	506.9	501.7	487.5	487.5
60°	6170.7	4364.2	1369.4	711.2	594.8	522.4	494.0	497.8	495.3	481.0	481.0
62.5°	5706.5	3817.2	1121.1	662.1	576.7	514.7	484.9	492.7	499.1	491.4	490.1
65°	4837.5	3058.2	911.6	607.8	553.4	501.7	472.0	491.4	505.6	515.9	515.9
67.5°	3629.7	2189.2	743.5	550.9	518.5	475.9	455.2	473.3	483.6	490.1	494.0
70°	2212.5	1287.9	585.8	484.9	468.1	437.1	421.6	403.4	389.2	386.6	387.9
72.5°	1082.3	737.1	475.9	412.5	399.6	371.1	336.2	328.4	322.0	318.1	316.8
75°	596.1	513.4	393.1	342.7	319.4	284.5	276.7	263.8	261.2	256.0	257.3
77.5°	421.6	404.7	324.6	278.0	243.1	225.0	228.9	219.8	219.8	215.9	214.7
80°	316.8	318.1	249.6	203.0	179.7	173.3	177.2	177.2	174.6	173.3	172.0
82.5°	200.4	226.3	168.1	130.6	128.0	129.3	128.0	126.7	129.3	125.4	124.1
85°	138.4	162.9	102.2	77.6	77.6	76.3	78.9	77.6	80.2	76.3	76.3
87.5°	31.0	72.4	37.5	23.3	24.6	23.3	24.6	25.9	28.4	29.7	29.7
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)