

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: P632775

Luminaire Tested: GWS-SA2D-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11742.7 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

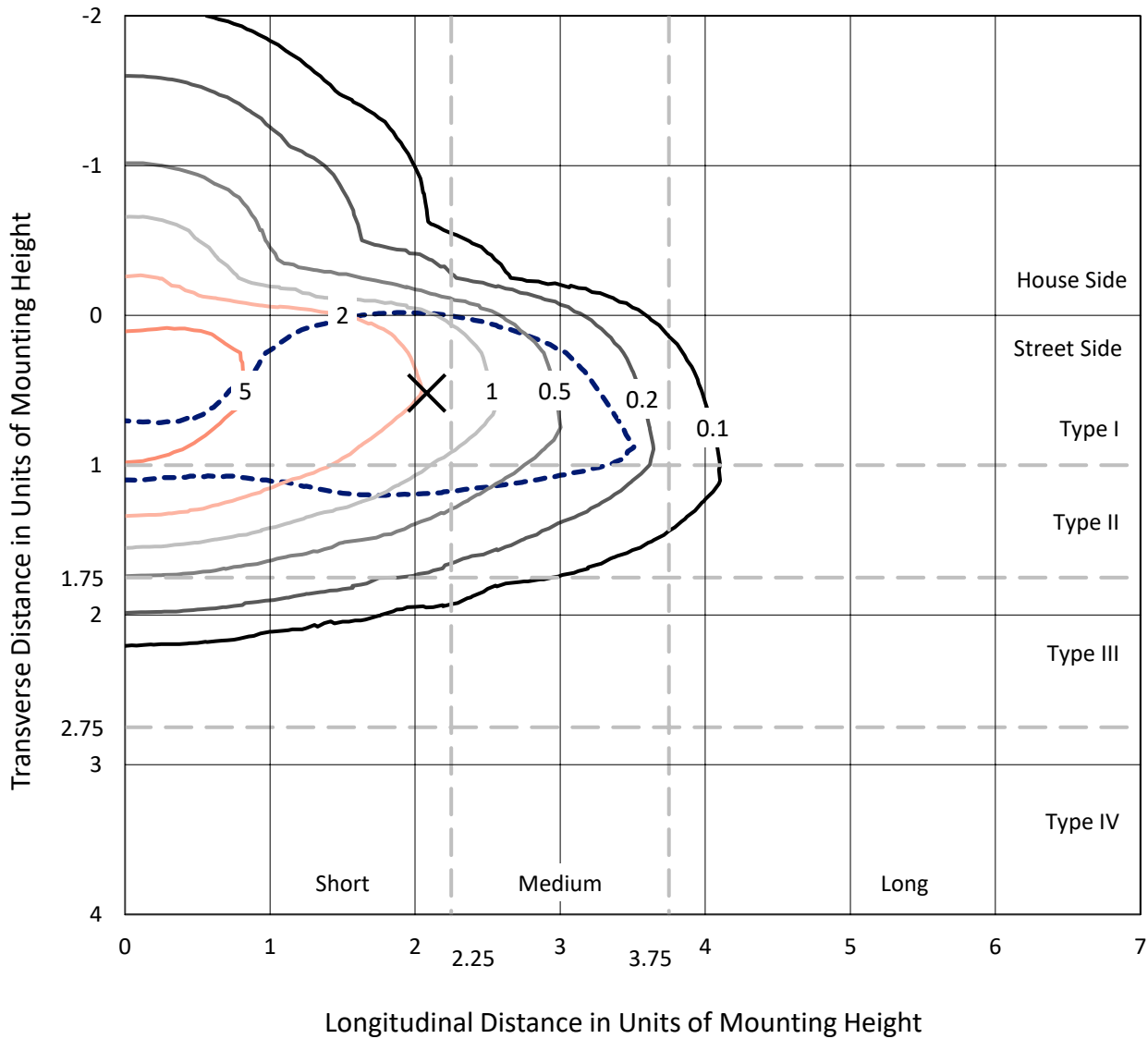


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Iso-Footcandle Lines of Horizontal Illumination

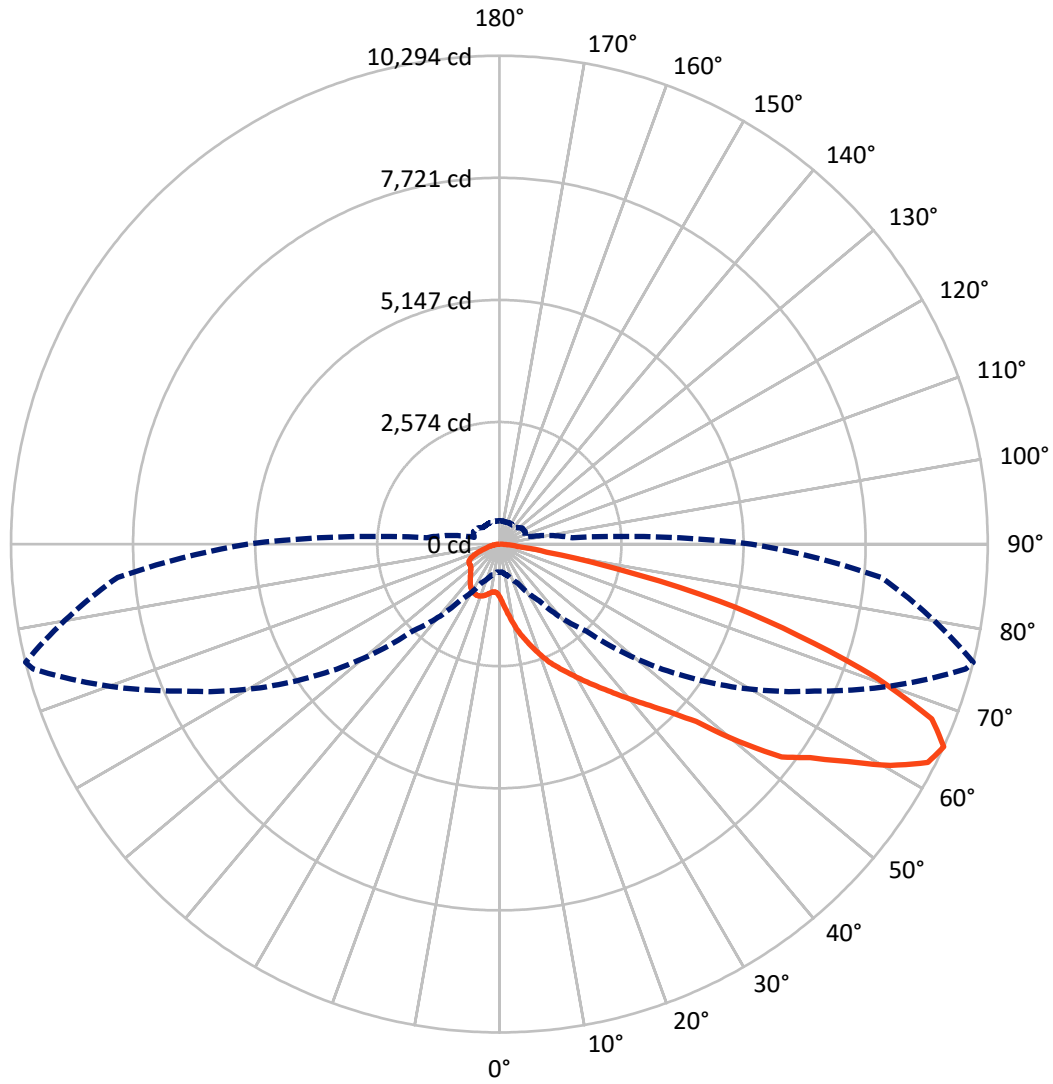
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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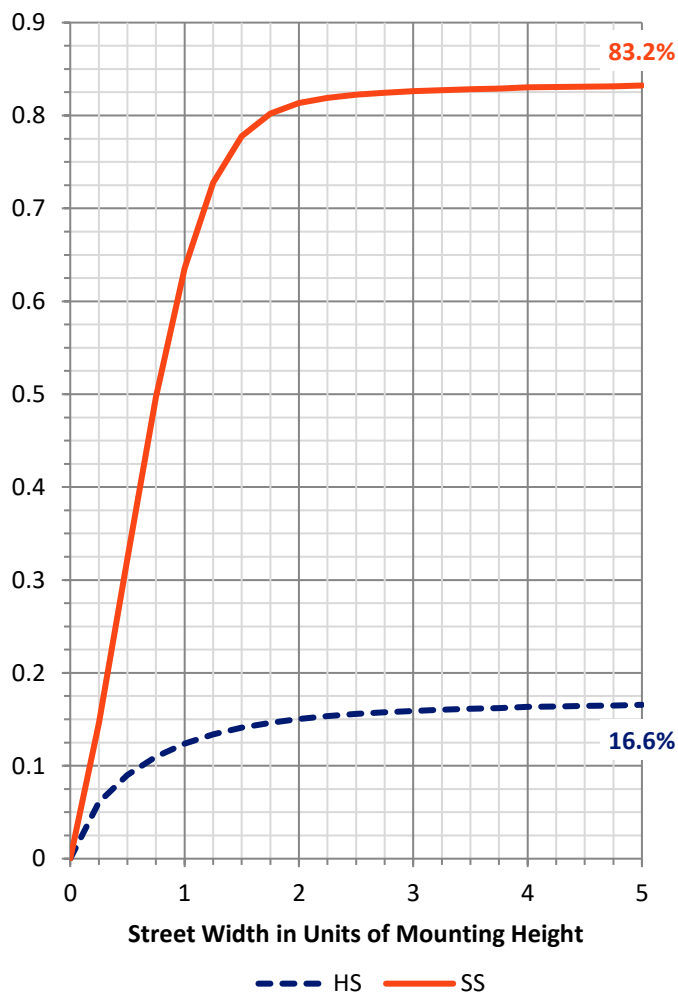
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1962.8	0.0	1962.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9779.9	0.0	9779.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	11742.7	0.0	11742.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.1
10°-20°	503.2	4.3
20°-30°	980.7	8.4
30°-40°	1640.1	14.0
40°-50°	2348.3	20.0
50°-60°	2780.1	23.7
60°-70°	2311.6	19.7
70°-80°	946.0	8.1
80°-90°	100.7	0.9
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°	11742.7	100.0
0°-180°	11742.7	100.0

Coefficient of Utilization



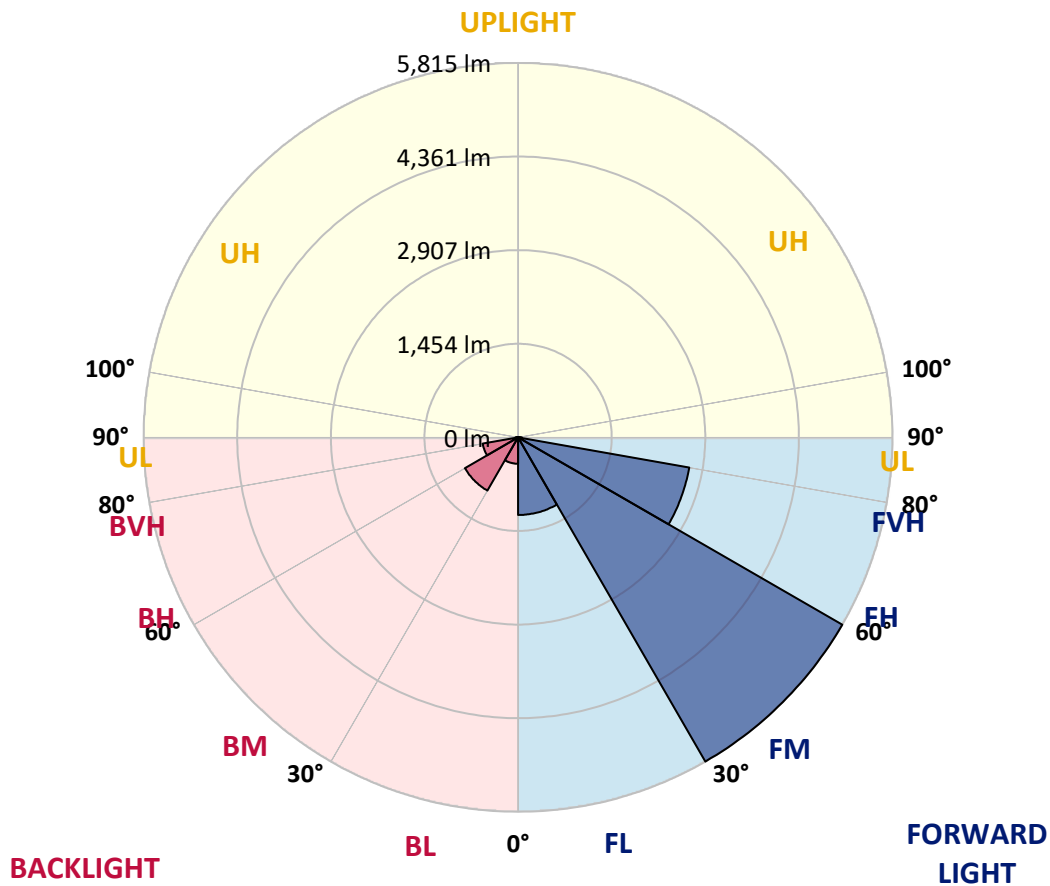
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1205.3	10.3			
FM	(30°-60°)	5814.5	49.5			
FH	(60°-80°)	2699.9	23.0			G2/5000
FVH	(80°-90°)	60.1	0.5			G1/100
BL	(0°-30°)	410.6	3.5	B1/500		
BM	(30°-60°)	953.9	8.1	B1/1000		
BH	(60°-80°)	557.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	40.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0
2.5°	1558.6	1564.4	1545.4	1538.8	1494.2	1433.9	1383.6	1307.6	1237.5	1226.7	1164.0
5°	1979.6	1954.9	1933.4	1919.4	1857.4	1788.9	1682.4	1539.6	1390.2	1372.0	1236.6
7.5°	2229.8	2225.6	2199.2	2191.0	2143.1	2074.6	1964.8	1787.3	1570.2	1540.4	1334.9
10°	2430.4	2427.9	2414.7	2422.1	2378.4	2311.5	2205.0	2021.7	1767.5	1737.7	1444.7
12.5°	2605.4	2609.5	2607.0	2634.3	2612.0	2560.0	2449.4	2247.9	1964.8	1932.6	1578.4
15°	2733.3	2736.6	2749.0	2808.5	2820.8	2810.1	2697.8	2470.0	2159.6	2113.4	1716.3
17.5°	2769.7	2776.3	2806.0	2901.7	2968.6	3013.2	2929.8	2696.2	2351.1	2300.8	1856.6
20°	2818.4	2825.8	2855.5	2955.4	3053.6	3155.2	3140.3	2925.7	2544.3	2503.0	1998.6
22.5°	3043.7	3038.0	3024.7	3072.6	3142.8	3269.1	3306.3	3146.1	2744.1	2704.4	2155.5
25°	3478.0	3467.2	3383.0	3339.3	3316.2	3392.9	3459.0	3346.7	2938.9	2879.5	2301.6
27.5°	3956.8	3951.0	3843.7	3739.7	3597.7	3564.6	3603.4	3521.7	3127.9	3067.7	2428.7
30°	4410.0	4392.7	4280.4	4149.9	3960.1	3818.1	3761.1	3693.4	3335.1	3272.4	2577.3
32.5°	4815.3	4793.0	4660.9	4516.5	4317.5	4149.9	3979.9	3875.9	3569.6	3496.9	2729.2
35°	5148.0	5125.7	4990.3	4836.8	4618.0	4494.2	4261.4	4074.0	3808.2	3734.7	2908.3
37.5°	5405.6	5384.9	5243.8	5092.7	4902.0	4803.8	4601.5	4296.9	4083.1	4006.3	3098.2
40°	5550.0	5535.2	5422.1	5302.4	5142.2	5057.2	4966.4	4578.4	4391.0	4314.2	3321.9
42.5°	5593.8	5583.9	5504.6	5442.7	5334.6	5270.2	5322.2	4909.4	4719.6	4652.7	3573.7
45°	5484.0	5484.0	5460.9	5492.3	5497.2	5496.4	5678.8	5283.4	5123.2	5049.8	3928.7
47.5°	5203.3	5221.5	5255.3	5409.7	5572.3	5708.5	6095.7	5782.0	5642.5	5582.2	4431.5
50°	4689.8	4739.4	4854.9	5156.3	5502.2	5848.9	6490.3	6519.2	6652.1	6545.6	5171.1
52.5°	3937.8	3930.4	4225.1	4654.3	5181.9	5854.7	6707.4	7169.7	7527.2	7453.7	5720.9
55°	3129.6	3117.2	3392.1	3984.0	4690.7	5633.4	6837.9	7467.8	8012.6	7946.6	6215.4
57.5°	2396.5	2380.8	2625.2	3159.3	3997.2	5163.7	6813.1	7822.7	8680.5	8646.6	6887.4
60°	1649.4	1630.4	1859.1	2326.3	3176.6	4445.5	6539.0	8005.2	9462.2	9473.8	7606.4
62.5°	990.6	979.9	1145.8	1508.2	2285.1	3555.6	5897.6	7894.6	10084.7	10136.7	8068.7
65°	597.7	590.3	687.7	899.8	1449.6	2594.6	4908.6	7329.1	10174.7	10294.4	8079.5
67.5°	435.1	435.9	463.9	548.2	845.3	1675.8	3683.5	6315.3	9705.8	9829.6	7570.1
70°	378.1	379.7	394.6	413.6	511.0	959.3	2394.9	4985.4	8319.7	8415.5	6349.2
72.5°	336.0	336.0	345.9	355.8	399.6	584.5	1282.9	3484.6	6566.3	6591.9	4845.9
75°	295.5	293.1	298.0	303.0	346.7	408.6	624.1	2427.9	4850.0	4790.6	3132.1
77.5°	235.3	232.8	233.6	238.6	278.2	292.2	316.2	1516.5	2733.3	2579.8	1383.6
80°	167.6	165.9	175.0	187.4	205.6	179.1	198.1	733.9	1083.9	1008.8	536.6
82.5°	99.9	103.2	117.2	127.1	142.0	112.3	128.0	245.2	383.9	374.0	217.9
85°	14.0	14.9	42.1	48.7	61.1	43.8	67.7	110.6	153.5	164.3	76.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	19.8	43.8	44.6	19.0
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°	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0	1112.0
2.5°	1131.8	1093.0	1037.7	991.5	952.7	921.3	894.9	875.1	869.3	861.0	861.0
5°	1173.1	1102.9	1003.8	933.7	893.2	869.3	852.8	844.5	840.4	835.4	833.0
7.5°	1230.0	1131.8	998.1	927.1	895.7	880.8	870.1	865.2	861.9	856.9	856.9
10°	1308.5	1174.7	1016.2	950.2	925.4	910.6	898.2	889.9	882.5	875.1	873.4
12.5°	1393.5	1230.9	1049.2	981.6	955.1	937.0	919.6	907.3	898.2	889.1	886.6
15°	1487.6	1288.7	1084.7	1012.1	979.1	954.3	933.7	914.7	902.3	889.1	887.4
17.5°	1580.1	1347.3	1114.5	1032.7	990.6	960.1	930.4	905.6	889.9	875.1	870.9
20°	1690.7	1405.9	1135.1	1038.5	988.2	947.7	912.2	880.8	863.5	846.2	843.7
22.5°	1792.2	1460.4	1145.0	1030.3	969.2	921.3	880.0	846.2	827.2	809.8	806.5
25°	1890.5	1508.2	1140.9	1010.4	940.3	885.0	842.0	808.2	790.0	771.9	766.9
27.5°	1985.4	1540.4	1124.4	979.9	904.0	844.5	803.2	772.7	757.0	741.3	734.7
30°	2078.7	1570.2	1098.8	940.3	857.7	802.4	768.6	747.1	731.4	714.9	710.0
32.5°	2172.8	1591.6	1060.0	894.1	810.7	765.3	744.6	728.9	712.4	695.9	691.0
35°	2267.7	1600.7	1012.9	841.2	771.0	741.3	733.9	715.7	693.4	673.6	667.0
37.5°	2380.8	1609.0	954.3	789.2	736.4	729.8	728.1	700.9	674.5	647.2	639.8
40°	2517.0	1619.7	894.1	742.2	708.3	725.6	719.0	681.9	629.1	602.6	594.4
42.5°	2683.8	1639.5	831.3	699.2	687.7	710.0	702.5	635.7	600.2	585.3	581.2
45°	2929.0	1712.2	768.6	665.4	672.0	687.7	676.1	608.4	594.4	584.5	579.5
47.5°	3365.7	1823.6	714.1	639.8	659.6	667.9	623.3	601.0	590.3	577.0	571.3
50°	3819.7	1872.3	670.3	624.1	645.6	649.7	594.4	591.1	583.7	569.6	563.8
52.5°	4126.8	1865.7	643.9	618.3	634.0	618.3	581.2	580.3	575.4	558.9	552.3
55°	4473.6	1877.3	632.4	620.0	629.1	565.5	564.7	567.1	564.7	546.5	543.2
57.5°	4941.6	1912.8	626.6	625.8	625.8	539.9	549.0	552.3	547.3	539.1	536.6
60°	5391.5	1915.2	615.8	632.4	623.3	524.2	530.8	534.1	528.3	526.7	525.9
62.5°	5560.8	1796.4	591.9	627.4	613.4	506.9	511.8	513.5	507.7	511.8	511.0
65°	5309.0	1543.7	552.3	603.5	582.8	491.2	487.9	492.0	482.1	492.8	493.7
67.5°	4713.8	1226.7	492.0	558.1	539.9	473.9	467.3	467.3	450.7	467.3	466.4
70°	3800.7	866.8	403.7	485.4	492.8	453.2	449.9	430.9	404.5	429.3	426.8
72.5°	2881.1	622.5	317.8	383.9	424.3	424.3	425.1	393.0	362.4	374.0	364.1
75°	1825.2	438.4	254.3	293.9	332.7	372.3	391.3	331.9	304.6	299.7	294.7
77.5°	822.2	288.1	198.1	225.4	236.1	293.9	357.5	285.6	248.5	237.8	234.5
80°	344.2	179.1	141.2	159.3	145.3	246.8	315.4	222.1	182.4	167.6	156.9
82.5°	151.1	106.5	90.0	85.9	90.8	183.3	235.3	147.8	113.9	154.4	156.0
85°	63.6	56.1	46.2	42.1	37.1	70.2	110.6	57.8	71.0	40.5	33.0
87.5°	14.9	16.5	12.4	8.3	5.0	0.8	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)