

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: P630465

Luminaire Tested: GWS-SA1D-760-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630465  
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-SA1D-760-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

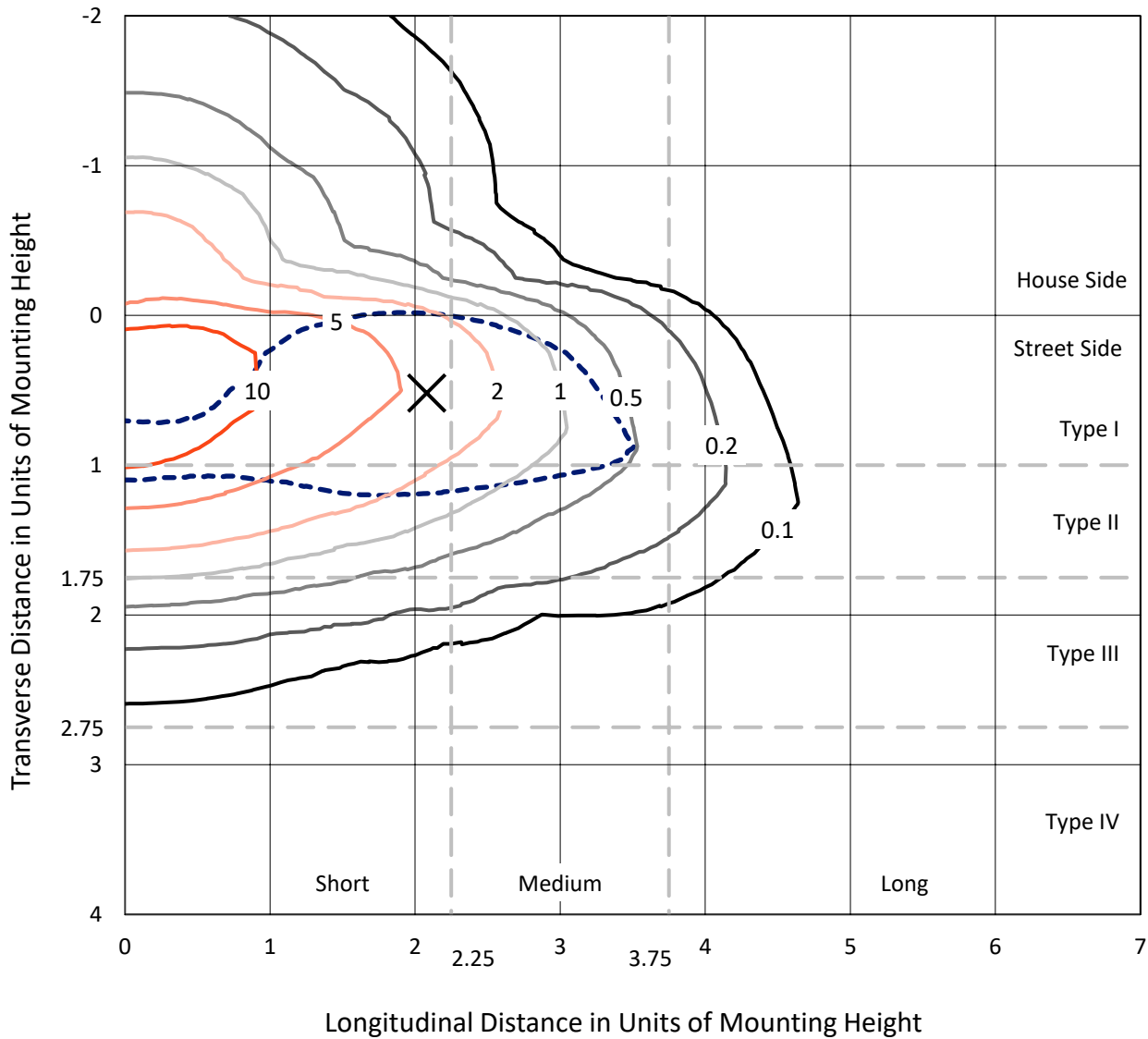
Lumens per Lamp: N/A  
Luminaire Lumens: 6238.1 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

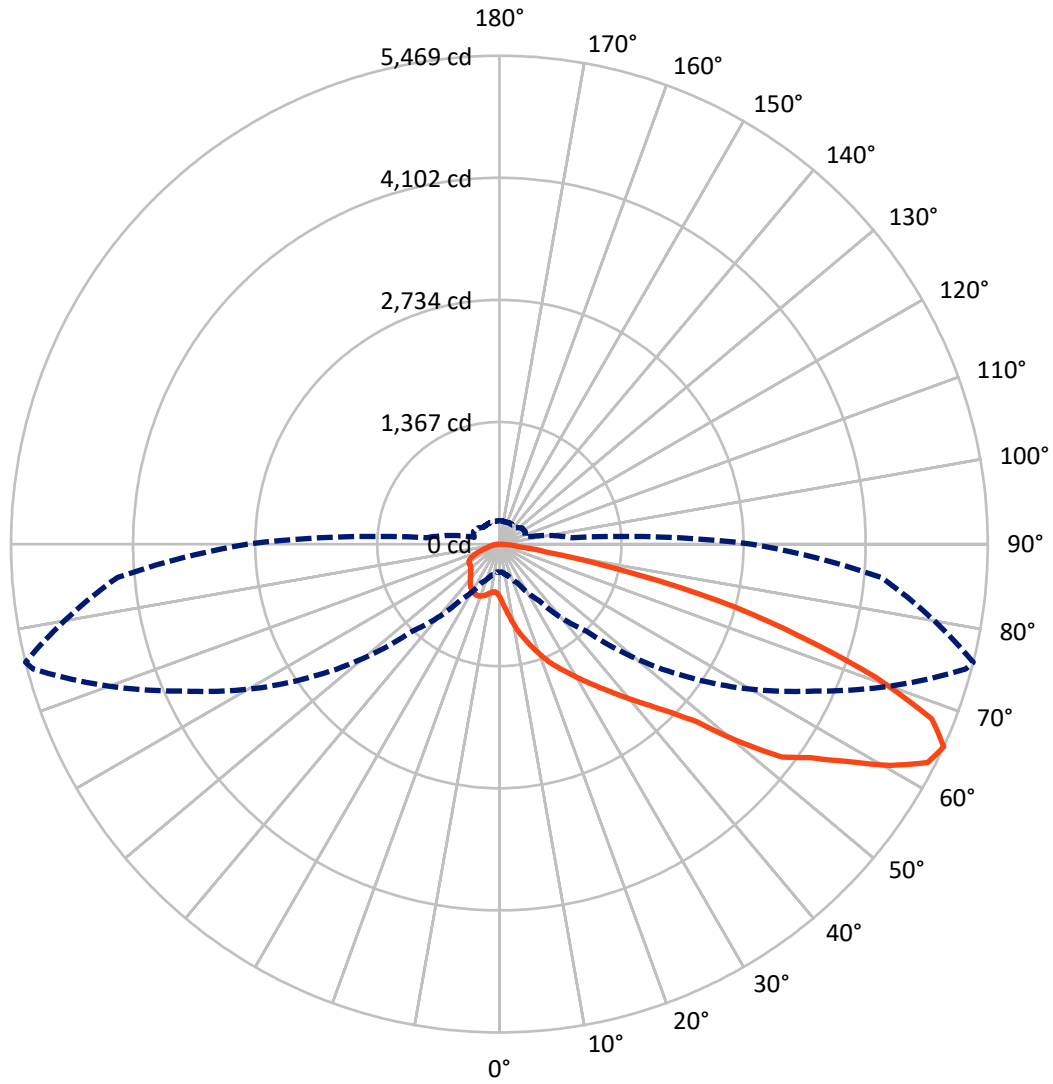
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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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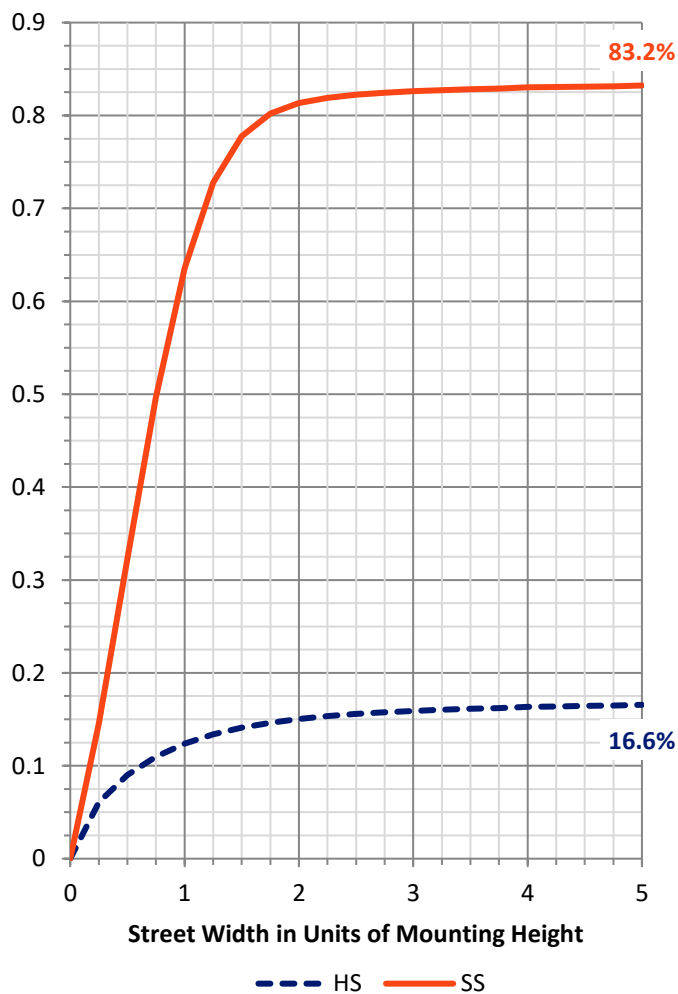
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1042.7	0.0	1042.7
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	5195.4	0.0	5195.4
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	6238.1	0.0	6238.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	1.1
10°-20°	267.3	4.3
20°-30°	521.0	8.4
30°-40°	871.3	14.0
40°-50°	1247.5	20.0
50°-60°	1476.9	23.7
60°-70°	1228.0	19.7
70°-80°	502.5	8.1
80°-90°	53.5	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°	6238.1	100.0
0°-180°	6238.1	100.0

**Coefficient of Utilization**



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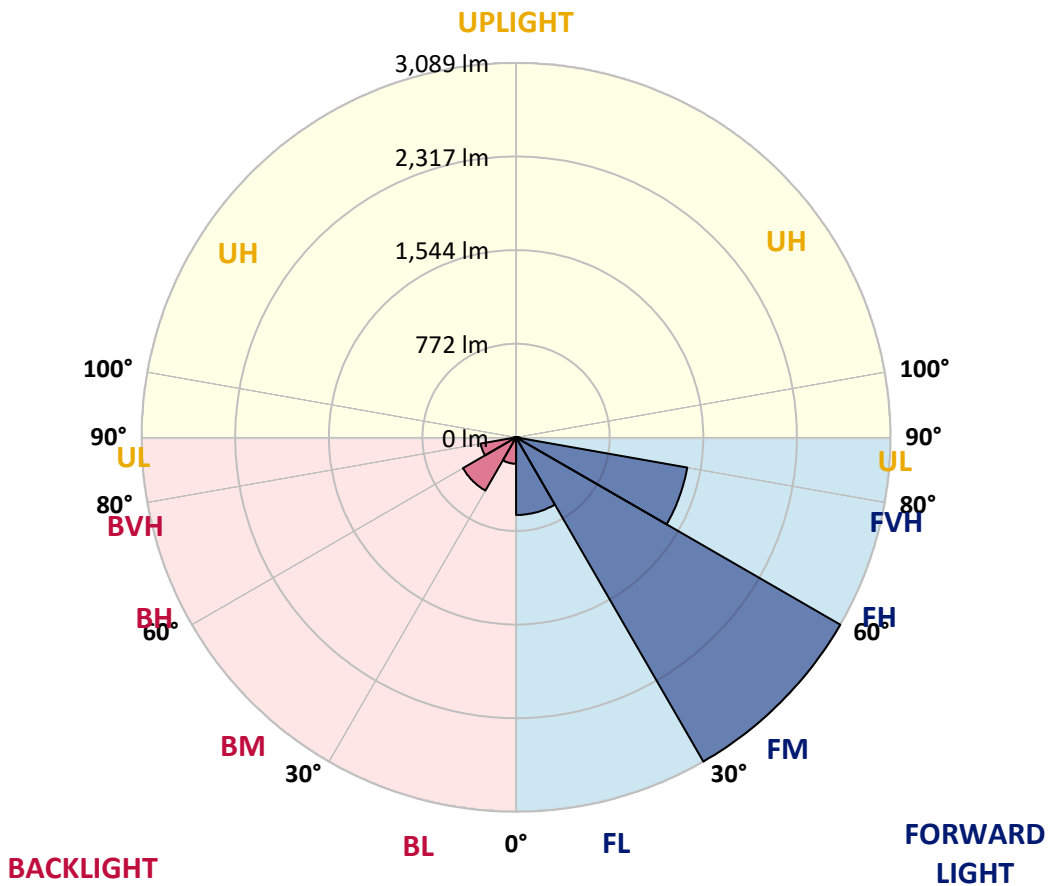
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.3	10.3			
FM (30°-60°)	3088.9	49.5			
FH (60°-80°)	1434.3	23.0			G1/1800
FVH (80°-90°)	31.9	0.5			G1/100
BL (0°-30°)	218.1	3.5	B1/500		
BM (30°-60°)	506.7	8.1	B1/1000		
BH (60°-80°)	296.2	4.7	B1/500		G1/500
BVH (80°-90°)	21.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7
2.5°	828.0	831.0	821.0	817.5	793.8	761.8	735.0	694.7	657.4	651.7	618.4
5°	1051.6	1038.5	1027.1	1019.6	986.7	950.3	893.8	817.9	738.5	728.9	656.9
7.5°	1184.5	1182.3	1168.3	1163.9	1138.5	1102.1	1043.7	949.5	834.1	818.3	709.1
10°	1291.1	1289.8	1282.8	1286.7	1263.5	1227.9	1171.4	1074.0	938.9	923.1	767.5
12.5°	1384.1	1386.3	1384.9	1399.4	1387.6	1359.9	1301.2	1194.2	1043.7	1026.6	838.5
15°	1452.0	1453.8	1460.4	1491.9	1498.5	1492.8	1433.2	1312.1	1147.2	1122.7	911.7
17.5°	1471.3	1474.8	1490.6	1541.5	1577.0	1600.7	1556.4	1432.3	1249.0	1222.2	986.3
20°	1497.2	1501.2	1516.9	1570.0	1622.2	1676.1	1668.2	1554.2	1351.6	1329.7	1061.7
22.5°	1616.9	1613.9	1606.8	1632.3	1669.6	1736.7	1756.4	1671.3	1457.7	1436.7	1145.1
25°	1847.6	1841.9	1797.2	1773.9	1761.6	1802.4	1837.5	1777.9	1561.2	1529.7	1222.7
27.5°	2102.0	2098.9	2041.9	1986.6	1911.2	1893.7	1914.3	1870.8	1661.7	1629.6	1290.2
30°	2342.7	2333.5	2273.9	2204.6	2103.7	2028.3	1998.0	1962.1	1771.7	1738.4	1369.1
32.5°	2558.1	2546.2	2476.0	2399.3	2293.6	2204.6	2114.2	2059.0	1896.3	1857.7	1449.8
35°	2734.8	2722.9	2651.0	2569.5	2453.2	2387.5	2263.8	2164.2	2023.0	1984.0	1545.0
37.5°	2871.6	2860.7	2785.7	2705.4	2604.1	2551.9	2444.5	2282.6	2169.1	2128.3	1645.9
40°	2948.4	2940.5	2880.4	2816.8	2731.7	2686.5	2638.3	2432.2	2332.6	2291.9	1764.7
42.5°	2971.6	2966.3	2924.2	2891.4	2833.9	2799.7	2827.3	2608.0	2507.2	2471.7	1898.5
45°	2913.3	2913.3	2901.0	2917.7	2920.3	2919.9	3016.8	2806.7	2721.6	2682.6	2087.1
47.5°	2764.2	2773.8	2791.8	2873.8	2960.2	3032.6	3238.2	3071.6	2997.5	2965.5	2354.1
50°	2491.4	2517.7	2579.1	2739.2	2922.9	3107.1	3447.9	3463.2	3533.8	3477.3	2747.1
52.5°	2091.9	2087.9	2244.5	2472.5	2752.8	3110.2	3563.2	3808.8	3998.7	3959.7	3039.1
55°	1662.5	1656.0	1802.0	2116.4	2491.8	2992.7	3632.5	3967.1	4256.6	4221.5	3301.8
57.5°	1273.1	1264.8	1394.6	1678.3	2123.5	2743.1	3619.3	4155.7	4611.3	4593.4	3658.8
60°	876.2	866.1	987.6	1235.8	1687.5	2361.6	3473.7	4252.6	5026.6	5032.8	4040.8
62.5°	526.3	520.6	608.7	801.2	1213.9	1888.8	3133.0	4193.8	5357.3	5384.9	4286.4
65°	317.5	313.6	365.3	478.0	770.1	1378.4	2607.6	3893.4	5405.1	5468.7	4292.1
67.5°	231.1	231.6	246.5	291.2	449.1	890.3	1956.8	3354.9	5156.0	5221.8	4021.5
70°	200.9	201.7	209.6	219.7	271.5	509.6	1272.2	2648.4	4419.7	4470.6	3372.9
72.5°	178.5	178.5	183.8	189.0	212.3	310.5	681.5	1851.1	3488.2	3501.8	2574.3
75°	157.0	155.7	158.3	160.9	184.2	217.1	331.5	1289.8	2576.5	2544.9	1663.9
77.5°	125.0	123.7	124.1	126.7	147.8	155.2	168.0	805.6	1452.0	1370.5	735.0
80°	89.0	88.1	93.0	99.6	109.2	95.2	105.3	389.9	575.8	535.9	285.1
82.5°	53.1	54.8	62.3	67.5	75.4	59.6	68.0	130.2	203.9	198.7	115.8
85°	7.5	7.9	22.4	25.9	32.5	23.2	36.0	58.8	81.6	87.3	40.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	10.5	23.2	23.7	10.1
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°	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7	590.7
2.5°	601.3	580.6	551.3	526.7	506.1	489.4	475.4	464.9	461.8	457.4	457.4
5°	623.2	585.9	533.3	496.0	474.5	461.8	453.0	448.6	446.4	443.8	442.5
7.5°	653.4	601.3	530.2	492.5	475.8	467.9	462.2	459.6	457.8	455.2	455.2
10°	695.1	624.1	539.9	504.8	491.6	483.7	477.1	472.8	468.8	464.9	464.0
12.5°	740.3	653.9	557.4	521.4	507.4	497.8	488.5	482.0	477.1	472.3	471.0
15°	790.3	684.6	576.3	537.7	520.1	507.0	496.0	485.9	479.3	472.3	471.4
17.5°	839.4	715.7	592.0	548.6	526.3	510.0	494.2	481.1	472.8	464.9	462.7
20°	898.1	746.8	603.0	551.7	524.9	503.5	484.6	467.9	458.7	449.5	448.2
22.5°	952.1	775.8	608.3	547.3	514.9	489.4	467.5	449.5	439.4	430.2	428.5
25°	1004.3	801.2	606.1	536.8	499.5	470.1	447.3	429.3	419.7	410.0	407.4
27.5°	1054.7	818.3	597.3	520.6	480.2	448.6	426.7	410.5	402.1	393.8	390.3
30°	1104.3	834.1	583.7	499.5	455.7	426.3	408.3	396.9	388.6	379.8	377.2
32.5°	1154.3	845.5	563.1	474.9	430.7	406.5	395.6	387.2	378.5	369.7	367.1
35°	1204.7	850.3	538.1	446.9	409.6	393.8	389.9	380.2	368.4	357.9	354.3
37.5°	1264.8	854.7	507.0	419.3	391.2	387.7	386.8	372.3	358.3	343.8	339.9
40°	1337.1	860.4	474.9	394.3	376.3	385.5	382.0	362.2	334.2	320.1	315.8
42.5°	1425.7	871.0	441.6	371.5	365.3	377.2	373.2	337.7	318.8	310.9	308.7
45°	1556.0	909.5	408.3	353.5	357.0	365.3	359.2	323.2	315.8	310.5	307.9
47.5°	1788.0	968.8	379.3	339.9	350.4	354.8	331.1	319.3	313.6	306.5	303.5
50°	2029.2	994.6	356.1	331.5	342.9	345.1	315.8	314.0	310.1	302.6	299.5
52.5°	2192.3	991.1	342.1	328.5	336.8	328.5	308.7	308.3	305.7	296.9	293.4
55°	2376.5	997.3	335.9	329.4	334.2	300.4	300.0	301.3	300.0	290.3	288.6
57.5°	2625.2	1016.1	332.9	332.4	332.4	286.8	291.6	293.4	290.8	286.4	285.1
60°	2864.2	1017.4	327.2	335.9	331.1	278.5	282.0	283.7	280.7	279.8	279.4
62.5°	2954.1	954.3	314.4	333.3	325.8	269.3	271.9	272.8	269.7	271.9	271.5
65°	2820.3	820.1	293.4	320.6	309.6	260.9	259.2	261.4	256.1	261.8	262.3
67.5°	2504.1	651.7	261.4	296.5	286.8	251.7	248.2	248.2	239.4	248.2	247.8
70°	2019.1	460.5	214.5	257.9	261.8	240.8	239.0	228.9	214.9	228.0	226.7
72.5°	1530.5	330.7	168.8	203.9	225.4	225.4	225.9	208.7	192.5	198.7	193.4
75°	969.6	232.9	135.1	156.1	176.7	197.8	207.9	176.3	161.8	159.2	156.6
77.5°	436.8	153.1	105.3	119.7	125.4	156.1	189.9	151.7	132.0	126.3	124.5
80°	182.9	95.2	75.0	84.6	77.2	131.1	167.5	118.0	96.9	89.0	83.3
82.5°	80.3	56.6	47.8	45.6	48.2	97.4	125.0	78.5	60.5	82.0	82.9
85°	33.8	29.8	24.6	22.4	19.7	37.3	58.8	30.7	37.7	21.5	17.5
87.5°	7.9	8.8	6.6	4.4	2.6	0.4	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)