

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: P631630

Luminaire Tested: GWS-SA2B-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631630  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

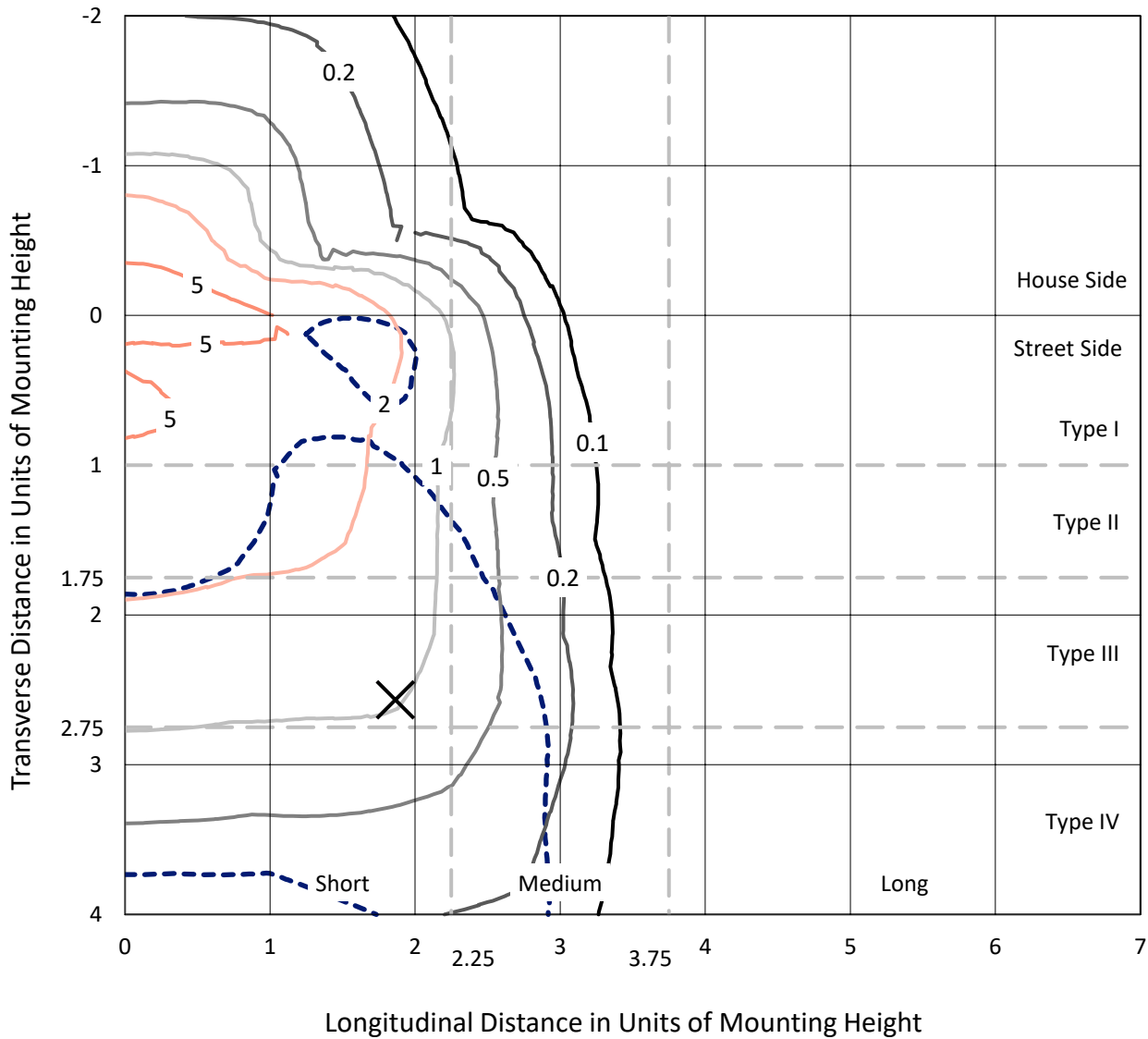
Lumens per Lamp: N/A  
Luminaire Lumens: 4910.1 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

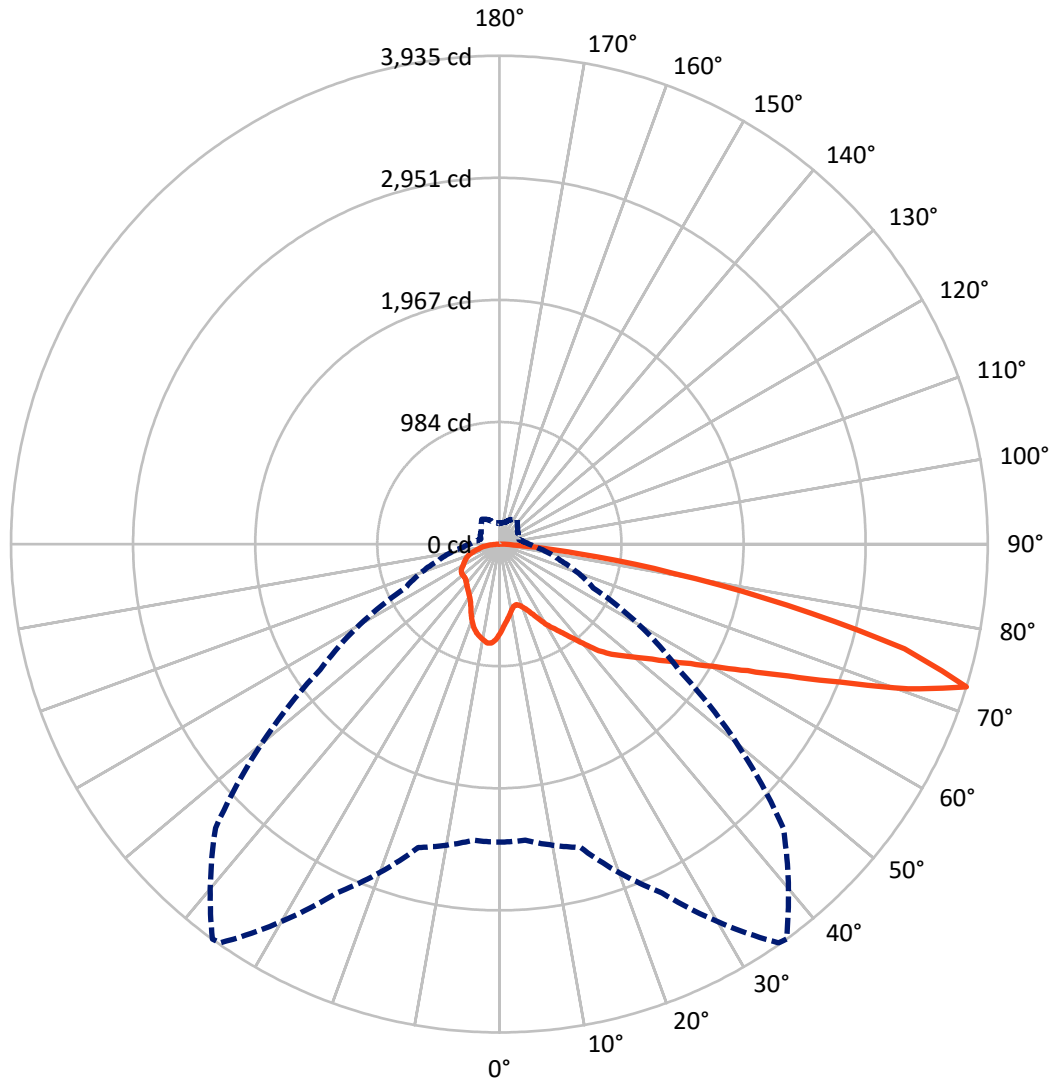
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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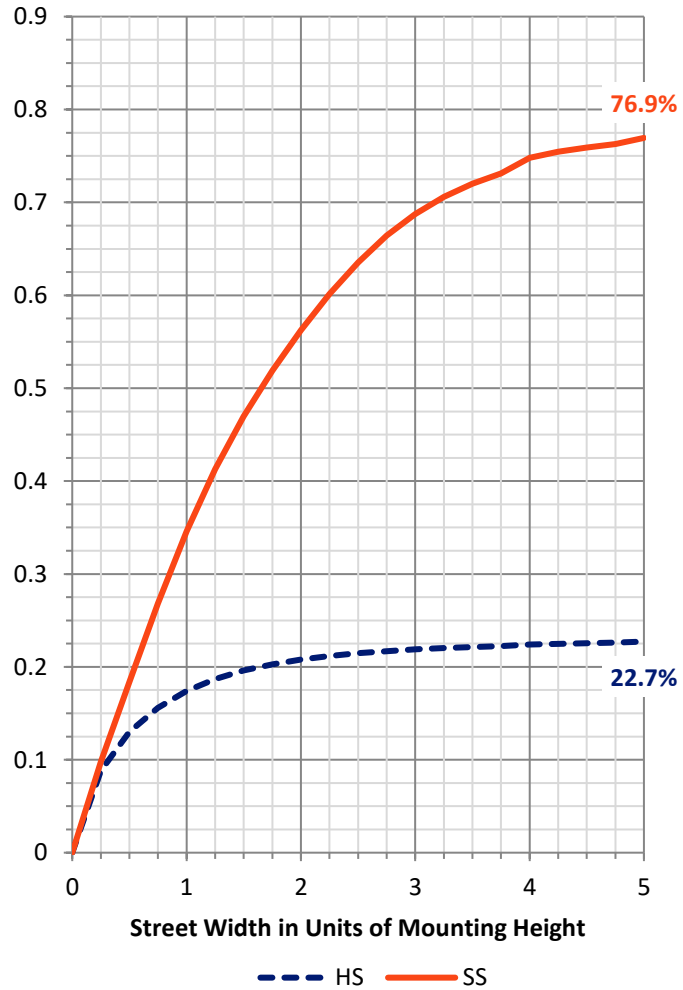
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1132.0	0.0	1132.0
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	3778.1	0.0	3778.1
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	4910.1	0.0	4910.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.2	1.4
10°-20°	189.5	3.9
20°-30°	313.9	6.4
30°-40°	470.0	9.6
40°-50°	685.7	14.0
50°-60°	976.0	19.9
60°-70°	1233.1	25.1
70°-80°	878.7	17.9
80°-90°	95.9	2.0
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°	4910.1	100.0
0°-180°	4910.1	100.0

**Coefficient of Utilization**



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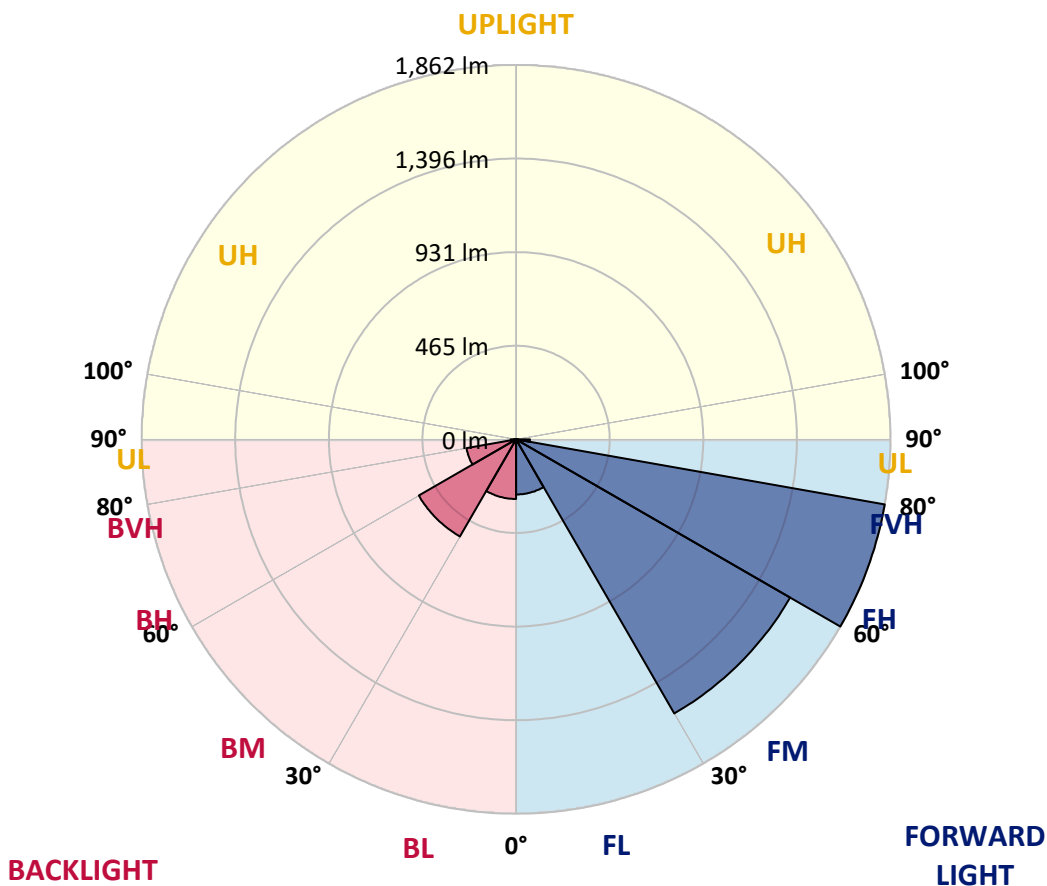
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.1	5.6			
FM (30°-60°)	1573.6	32.0			
FH (60°-80°)	1861.6	37.9			G2/5000
FVH (80°-90°)	68.9	1.4			G1/100
BL (0°-30°)	296.4	6.0	B1/500		
BM (30°-60°)	558.2	11.4	B1/1000		
BH (60°-80°)	250.3	5.1	B1/500		G1/500
BVH (80°-90°)	27.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6
2.5°	655.6	654.5	652.3	658.9	665.4	664.7	673.8	682.5	692.0	701.9	715.0
5°	603.1	602.4	600.5	610.4	620.2	619.9	634.8	649.0	668.3	689.5	715.7
7.5°	550.6	548.8	551.4	563.7	577.6	579.0	599.5	622.8	650.8	682.5	719.7
10°	504.3	504.0	505.1	518.9	539.7	541.1	567.4	599.8	637.0	679.3	728.8
12.5°	492.3	491.6	488.7	495.6	511.3	513.5	542.2	582.0	627.5	681.1	741.2
15°	512.0	510.2	500.0	496.7	504.3	506.2	530.6	571.4	622.0	684.4	756.9
17.5°	545.9	544.8	525.5	512.0	517.1	518.6	536.8	569.6	620.6	690.9	776.2
20°	595.4	590.7	560.5	540.1	540.1	542.2	553.2	577.6	622.4	698.9	798.1
22.5°	661.0	651.6	608.9	581.2	573.9	576.9	581.6	597.6	630.1	712.4	825.4
25°	734.6	725.9	675.3	636.3	626.1	627.1	623.1	626.1	646.8	731.0	859.3
27.5°	813.0	807.2	753.2	703.7	687.6	687.6	673.4	666.5	670.1	752.1	897.2
30°	883.0	874.9	829.4	775.1	754.0	754.0	727.0	712.1	703.3	778.0	947.8
32.5°	919.8	915.0	884.8	843.2	817.4	813.4	790.0	772.5	752.1	816.3	1016.3
35°	967.9	966.8	948.6	916.1	883.3	877.5	861.5	847.6	812.3	864.0	1107.4
37.5°	1028.4	1026.5	1023.6	1004.3	965.0	963.9	949.7	932.9	887.0	932.9	1217.9
40°	1096.1	1092.9	1089.2	1088.9	1065.2	1061.2	1060.1	1041.1	977.0	1016.0	1333.0
42.5°	1189.4	1178.1	1143.9	1159.2	1176.7	1173.0	1186.9	1158.5	1089.2	1114.7	1442.0
45°	1304.2	1276.5	1208.7	1213.1	1257.2	1264.5	1312.6	1305.7	1212.8	1228.8	1556.8
47.5°	1373.1	1349.0	1286.0	1282.4	1337.4	1346.5	1451.1	1464.2	1345.8	1366.2	1698.5
50°	1429.6	1412.8	1361.1	1366.2	1424.5	1433.6	1588.5	1616.5	1471.1	1506.8	1863.2
52.5°	1497.7	1473.7	1433.6	1457.6	1529.1	1540.0	1741.1	1771.4	1584.1	1661.3	2033.8
55°	1536.0	1526.1	1526.9	1563.7	1653.3	1668.3	1901.1	1896.0	1687.6	1793.6	2162.0
57.5°	1624.2	1620.5	1654.1	1667.9	1798.4	1817.7	2061.1	2017.4	1781.6	1896.0	2223.6
60°	1779.8	1770.7	1799.8	1821.0	1977.6	2005.0	2239.7	2136.2	1845.4	1972.2	2202.9
62.5°	1998.4	1987.1	1988.2	2021.7	2217.8	2246.6	2438.3	2235.3	1865.0	1983.8	2071.3
65°	2270.3	2253.9	2235.3	2280.8	2536.7	2560.7	2654.4	2307.4	1818.0	1871.6	1796.5
67.5°	2557.1	2543.6	2521.7	2617.2	2949.5	2964.1	2896.7	2301.2	1669.0	1571.3	1260.1
70°	2573.8	2577.1	2680.6	3026.1	3488.5	3492.1	3125.9	2176.6	1351.6	1018.5	627.9
72.5°	2401.1	2395.6	2530.5	3100.8	3922.1	3934.5	3234.1	1763.4	835.2	508.0	294.4
75°	1950.3	1959.8	2101.5	2713.0	3361.7	3372.6	2636.5	1039.7	396.8	248.5	188.4
77.5°	839.6	892.4	1171.9	1911.3	2407.7	2373.8	1358.9	421.3	211.7	177.1	144.3
80°	242.3	263.1	417.6	908.8	1442.7	1417.2	537.9	157.8	147.6	133.0	103.5
82.5°	78.3	86.7	153.1	361.9	646.5	645.7	204.1	93.3	96.6	90.4	66.7
85°	21.9	25.1	47.0	109.7	200.1	196.1	59.0	44.1	51.4	52.1	33.2
87.5°	0.0	0.0	0.4	0.7	0.7	0.7	1.5	6.6	14.9	18.9	13.5
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°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6
2.5°	723.0	721.9	736.8	748.5	759.4	766.7	768.9	770.4	773.3	774.7	773.3
5°	728.1	733.6	758.3	776.6	791.1	799.9	800.2	799.5	801.7	799.9	798.8
7.5°	739.0	749.6	780.9	800.2	809.7	810.1	801.3	791.1	786.0	781.7	780.2
10°	753.6	769.3	803.5	816.3	813.4	799.9	780.6	764.5	755.4	748.9	747.4
12.5°	773.6	791.1	823.6	823.2	805.0	780.9	758.3	739.0	725.9	718.3	715.7
15°	792.6	814.8	838.1	821.0	792.2	763.1	733.9	708.0	690.6	678.5	676.3
17.5°	815.9	839.6	848.7	814.1	776.2	738.7	699.7	665.8	642.1	627.9	626.8
20°	842.9	864.0	853.8	802.1	755.4	706.2	653.4	615.5	590.0	576.1	577.2
22.5°	874.2	889.5	855.3	785.7	726.6	660.3	601.3	564.8	547.7	540.4	540.8
25°	907.7	917.6	852.7	763.4	682.5	604.2	547.7	530.9	529.5	527.7	528.4
27.5°	947.5	945.3	845.1	732.1	623.1	539.0	510.2	514.5	520.4	519.6	520.4
30°	1000.7	979.9	835.2	688.7	552.4	484.3	487.9	500.3	508.0	508.7	510.9
32.5°	1061.5	1018.2	819.6	629.7	485.0	453.7	467.2	482.1	491.2	493.0	496.0
35°	1134.0	1061.9	791.9	556.1	436.6	435.5	447.9	458.1	467.9	468.6	468.6
37.5°	1217.5	1105.6	747.8	474.8	406.7	419.8	431.5	433.6	436.2	434.0	435.1
40°	1294.0	1147.9	685.1	400.9	382.3	406.0	415.8	408.5	400.5	395.0	396.1
42.5°	1358.2	1176.7	602.0	349.1	357.5	393.6	401.2	386.3	370.6	360.4	361.9
45°	1430.3	1203.3	504.3	314.1	336.3	384.8	389.9	370.6	350.6	335.3	333.1
47.5°	1529.8	1257.6	417.6	289.7	321.4	380.1	388.5	362.2	336.0	313.0	310.5
50°	1652.6	1334.5	345.1	273.7	314.5	377.5	388.1	353.1	321.8	294.8	293.0
52.5°	1786.7	1409.5	291.5	261.3	307.6	369.9	386.3	342.9	306.8	277.7	275.5
55°	1876.0	1439.1	255.5	249.6	296.3	357.8	379.0	333.1	284.2	257.6	254.4
57.5°	1902.2	1401.2	230.3	239.1	281.7	341.1	365.1	312.3	270.4	249.3	246.7
60°	1857.0	1305.7	214.6	230.3	265.7	319.6	341.1	300.3	259.5	240.5	238.7
62.5°	1729.5	1158.5	202.6	221.2	249.3	297.0	325.8	285.7	247.4	232.5	229.9
65°	1472.9	950.0	192.8	211.7	233.6	275.5	309.0	271.1	234.3	223.0	220.1
67.5°	1030.2	667.2	182.2	200.4	217.9	254.7	291.5	257.6	220.8	212.5	209.5
70°	503.6	353.8	169.5	187.3	201.2	233.6	274.0	241.2	203.0	198.2	194.2
72.5°	239.8	197.9	154.5	169.5	178.2	205.5	244.9	217.6	181.8	171.6	164.7
75°	160.7	140.7	134.8	148.3	150.5	172.4	209.9	187.7	160.3	148.7	142.8
77.5°	121.7	107.5	113.3	125.4	121.0	141.8	172.7	167.3	144.7	134.1	131.2
80°	85.6	78.3	90.0	97.3	94.0	120.6	155.6	143.2	119.2	107.5	105.3
82.5°	53.9	52.5	66.3	67.4	68.5	95.5	127.9	112.6	92.6	76.2	70.7
85°	27.0	29.9	39.7	39.7	39.4	49.2	72.9	63.4	49.9	39.7	38.6
87.5°	9.1	12.8	17.1	13.8	10.6	8.4	9.5	11.7	12.4	12.0	12.0
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)