

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: P631962

Luminaire Tested: GWS-SA2B-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

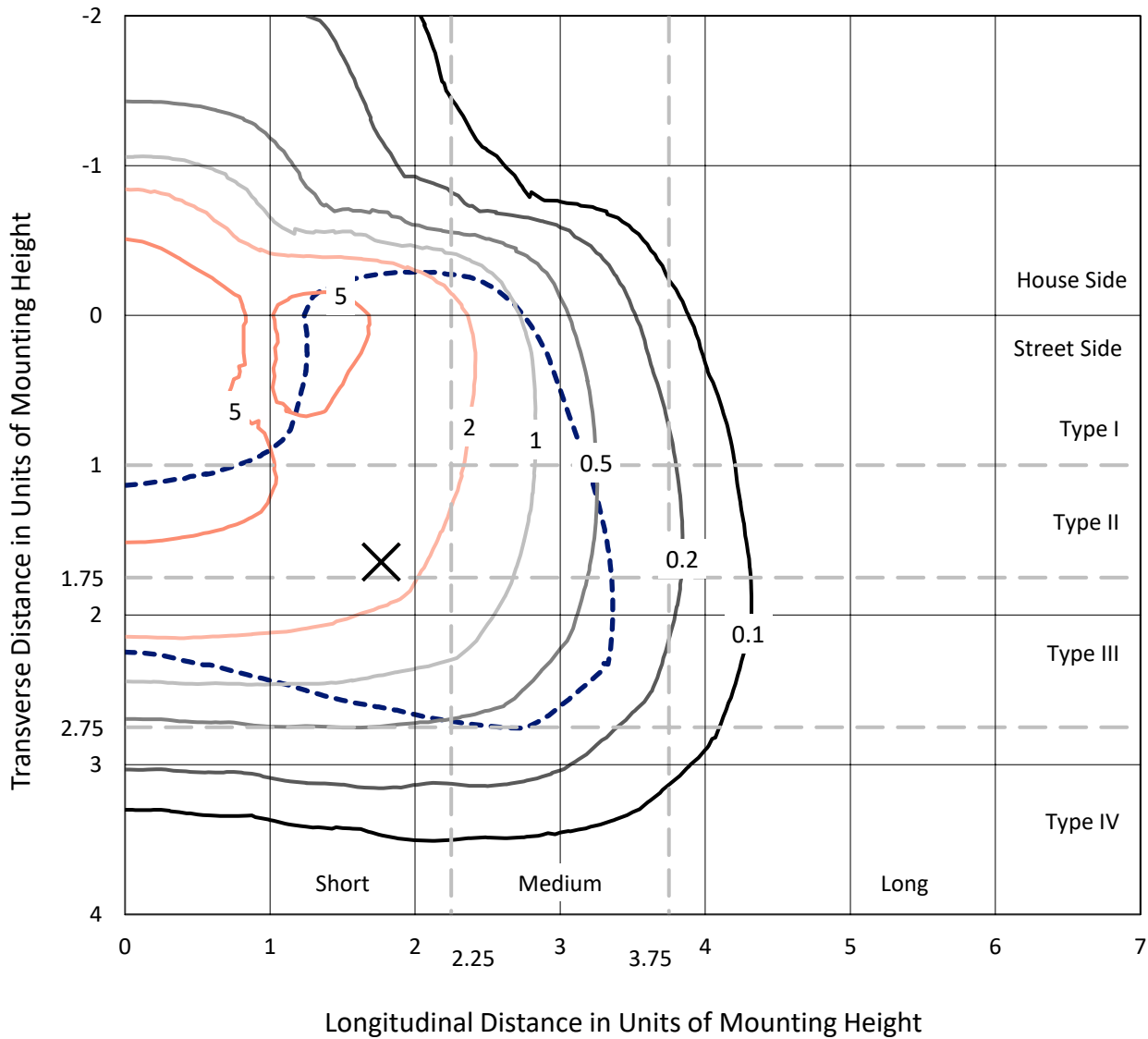
Lumens per Lamp: N/A  
Luminaire Lumens: 6903 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

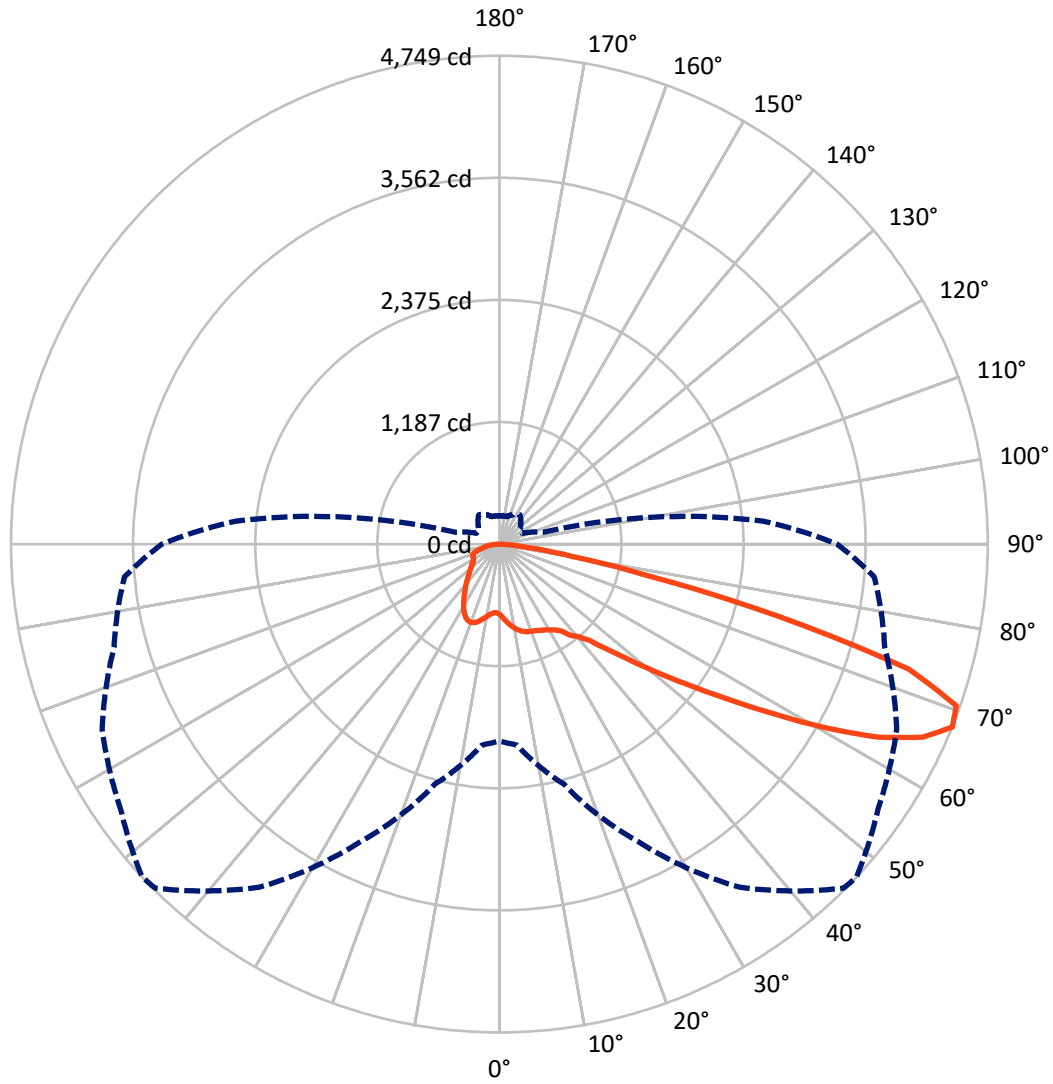
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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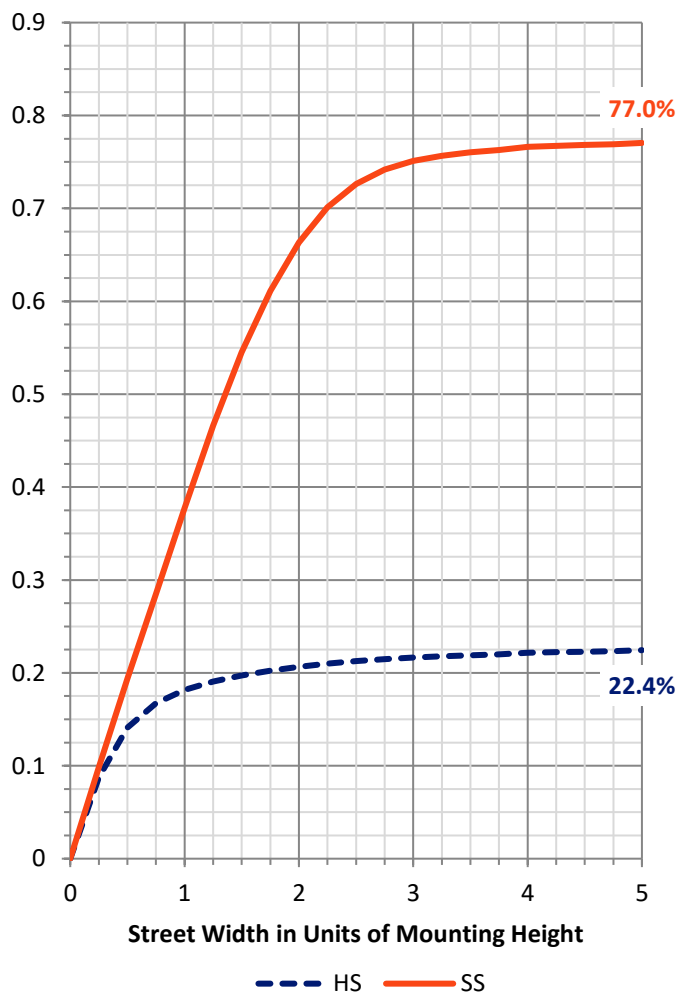
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1573.2	0.0	1573.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	5329.8	0.0	5329.8
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	6903.0	0.0	6903.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	1.0
10°-20°	233.0	3.4
20°-30°	396.0	5.7
30°-40°	580.2	8.4
40°-50°	883.9	12.8
50°-60°	1581.6	22.9
60°-70°	2110.4	30.6
70°-80°	954.4	13.8
80°-90°	93.5	1.4
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°	6903.0	100.0
0°-180°	6903.0	100.0

**Coefficient of Utilization**



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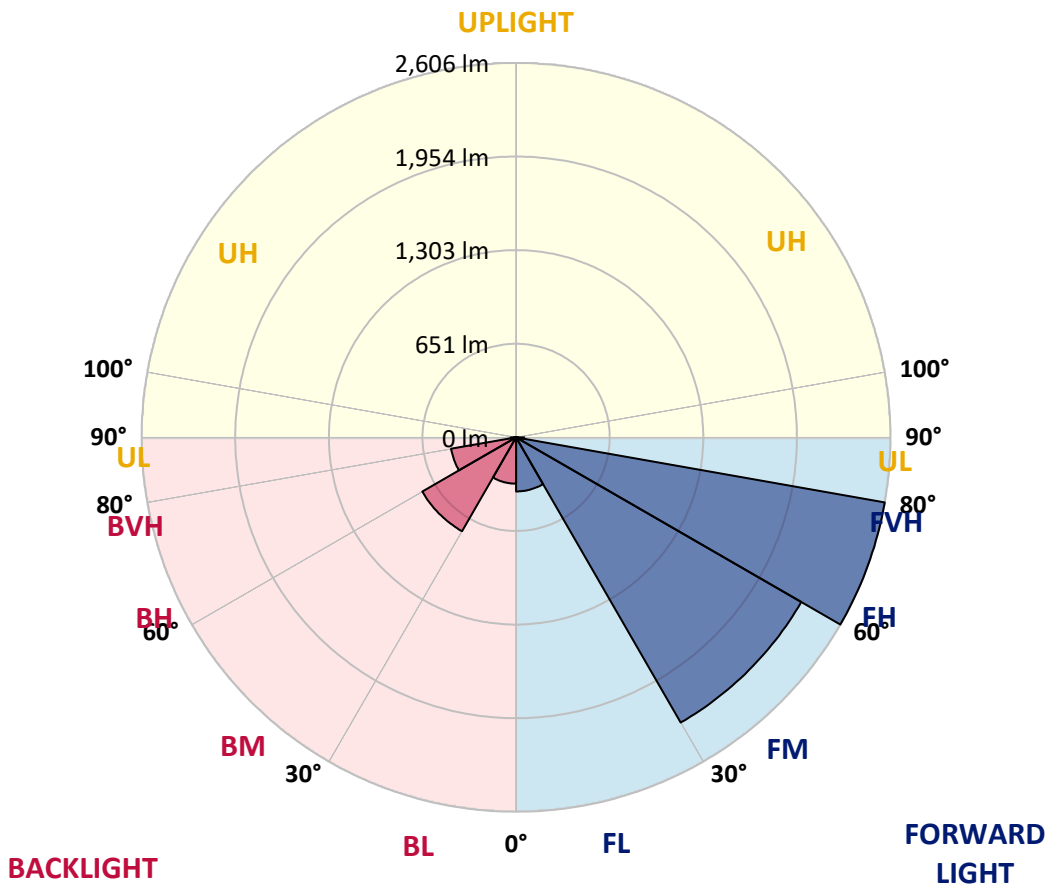
CATALOG NUMBER: GWS-SA2B-760-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.5	5.5			
FM (30°-60°)	2291.9	33.2			
FH (60°-80°)	2605.8	37.7			G2/5000
FVH (80°-90°)	55.6	0.8			G1/100
BL (0°-30°)	322.5	4.7	B1/500		
BM (30°-60°)	753.8	10.9	B1/1000		
BH (60°-80°)	459.0	6.6	B1/500		G1/500
BVH (80°-90°)	37.9	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3
2.5°	729.7	732.2	731.7	727.7	725.2	720.7	721.2	714.3	703.8	696.8	688.8
5°	794.1	798.1	793.1	786.6	776.6	762.2	760.7	744.7	724.7	710.8	696.3
7.5°	850.0	852.5	846.5	835.5	821.1	801.6	798.1	779.1	754.2	732.2	711.3
10°	893.4	896.4	888.4	874.0	855.0	835.5	833.0	813.6	787.1	761.2	734.7
12.5°	930.4	931.4	922.9	903.4	883.0	863.0	860.5	842.5	818.1	791.6	762.7
15°	951.8	952.3	941.9	920.4	900.9	883.5	882.0	866.5	844.0	819.1	788.1
17.5°	950.3	951.3	943.9	924.9	907.9	897.4	895.9	886.0	868.5	846.0	815.1
20°	931.9	932.9	927.9	915.4	906.4	903.4	903.9	900.9	890.4	872.0	840.5
22.5°	917.4	918.9	914.4	905.4	904.4	911.4	912.9	914.4	909.4	892.9	862.5
25°	924.4	926.9	919.9	907.4	909.4	924.9	927.9	932.9	928.9	914.9	888.4
27.5°	972.8	974.3	956.3	930.9	924.9	941.4	945.8	953.8	950.8	937.9	917.4
30°	1085.1	1084.1	1045.7	983.3	958.3	964.8	968.3	979.8	980.8	972.3	952.8
32.5°	1243.3	1238.3	1178.9	1079.6	1007.2	991.3	995.3	1010.7	1022.2	1013.2	986.8
35°	1410.5	1406.0	1340.7	1224.4	1097.6	1042.2	1037.7	1049.7	1067.1	1042.2	1004.2
37.5°	1569.8	1562.8	1495.9	1352.1	1208.9	1131.5	1125.0	1113.1	1102.6	1054.7	1025.7
40°	1746.5	1738.5	1680.1	1517.4	1331.7	1199.9	1183.4	1136.0	1126.5	1096.1	1081.6
42.5°	1935.1	1935.1	1886.7	1726.5	1479.9	1297.7	1276.3	1204.9	1214.9	1194.9	1177.9
45°	2123.8	2129.3	2090.9	1937.1	1678.1	1482.4	1448.0	1346.6	1370.6	1361.6	1353.1
47.5°	2284.5	2295.0	2287.5	2152.2	1920.6	1707.0	1654.6	1549.3	1600.7	1622.2	1646.1
50°	2457.7	2469.2	2461.7	2408.3	2204.7	1979.0	1932.1	1823.3	1911.7	1976.1	2054.4
52.5°	2714.8	2731.2	2668.8	2648.4	2549.6	2288.0	2246.1	2122.3	2282.5	2389.3	2564.0
55°	2931.9	2931.4	2909.4	2956.3	2919.9	2665.8	2619.4	2507.1	2711.8	2825.1	3080.6
57.5°	3032.7	3044.7	3120.1	3252.8	3325.7	3127.5	3083.1	2968.3	3172.5	3231.4	3507.4
60°	3084.6	3099.6	3245.3	3507.9	3704.0	3631.7	3614.2	3467.9	3582.7	3575.8	3867.3
62.5°	3011.7	3041.7	3275.8	3624.7	3974.1	4138.3	4132.8	3911.7	3931.6	3863.3	4090.4
65°	2677.3	2709.8	3077.1	3566.3	4128.3	4523.6	4525.1	4313.5	4199.7	4003.0	4052.9
67.5°	1914.7	1961.1	2415.3	3190.9	4073.9	4731.7	4749.2	4495.7	4262.6	3879.2	3659.6
70°	1043.7	1077.6	1433.5	2319.5	3583.7	4681.8	4714.3	4407.8	3985.0	3355.6	2817.1
72.5°	474.2	485.2	666.8	1272.8	2448.2	4030.0	4165.7	3933.6	3272.8	2478.7	1791.4
75°	217.1	222.1	290.5	608.9	1279.3	2696.8	2792.1	2929.9	2277.5	1565.3	933.9
77.5°	136.3	137.8	165.2	278.5	637.9	1346.2	1446.5	1744.5	1333.7	774.6	390.3
80°	80.4	81.9	102.8	150.7	299.5	615.9	711.3	689.8	626.9	334.4	177.7
82.5°	40.4	41.9	59.4	85.9	163.2	245.1	288.5	290.0	233.6	181.2	100.3
85°	14.5	15.0	19.5	33.9	69.4	80.9	90.3	110.3	114.3	105.3	48.4
87.5°	0.0	0.0	0.5	1.0	2.0	8.0	8.5	16.0	33.4	37.4	19.5
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°	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3	684.3
2.5°	686.3	678.8	676.3	673.8	669.8	668.3	665.3	662.3	662.3	659.3	657.9
5°	689.8	679.8	673.3	670.3	667.8	669.3	669.3	670.3	673.8	671.8	672.8
7.5°	702.3	690.8	681.8	679.3	679.3	685.3	689.3	694.3	700.8	701.8	701.8
10°	724.2	710.8	701.3	699.8	702.3	710.8	716.7	722.7	730.7	731.2	732.2
12.5°	748.2	734.7	725.2	727.2	729.7	740.7	747.2	752.2	760.2	760.2	759.7
15°	773.2	758.2	750.2	754.2	761.7	774.1	775.1	775.6	779.6	778.6	778.1
17.5°	799.1	783.1	777.1	783.1	791.1	797.1	792.1	785.1	783.6	781.6	780.6
20°	824.6	808.1	805.6	810.1	812.6	807.6	792.1	779.1	773.2	770.2	769.2
22.5°	846.5	832.5	831.0	831.0	818.6	801.1	778.1	760.7	752.7	748.7	747.7
25°	872.5	859.5	857.0	843.5	811.6	779.6	748.7	732.7	726.2	724.2	724.7
27.5°	902.9	893.9	886.0	847.5	791.6	741.7	706.8	699.8	697.3	699.8	701.3
30°	940.4	931.4	913.4	842.5	759.7	692.3	658.9	658.4	665.8	672.3	673.3
32.5°	970.8	966.8	937.4	826.6	714.8	637.9	609.4	611.4	624.9	633.9	635.4
35°	994.8	1001.3	957.3	800.1	661.3	586.5	564.0	565.0	572.5	585.0	585.5
37.5°	1028.7	1050.7	975.3	759.7	600.0	542.1	521.6	514.1	513.1	516.6	517.6
40°	1097.1	1130.0	988.3	700.8	540.6	502.1	479.2	464.7	452.2	442.7	439.7
42.5°	1200.4	1238.3	995.8	629.4	487.6	462.7	436.7	418.3	396.3	376.3	369.4
45°	1390.1	1402.6	995.8	553.5	440.7	425.8	399.8	377.8	349.9	326.4	321.4
47.5°	1693.5	1653.6	996.8	480.2	399.3	393.3	370.9	345.9	315.0	295.5	292.5
50°	2150.7	2010.5	1017.2	419.3	364.9	365.9	349.4	321.9	294.0	279.5	277.0
52.5°	2668.8	2450.2	1072.1	374.3	335.9	343.4	334.4	308.0	283.0	270.5	268.0
55°	3156.0	2854.5	1119.0	342.4	311.5	324.4	323.9	299.5	277.0	264.5	263.0
57.5°	3570.3	3131.5	1112.1	316.4	290.5	307.0	314.5	294.0	273.0	262.5	261.0
60°	3827.8	3278.3	1012.7	292.5	274.5	294.5	309.0	292.5	275.0	272.5	273.0
62.5°	3939.6	3251.3	822.1	274.5	264.0	288.5	315.0	303.0	293.5	299.5	303.0
65°	3765.9	3019.7	604.9	261.0	254.1	290.0	328.9	319.4	293.5	297.5	299.0
67.5°	3283.8	2570.5	437.2	247.6	241.6	294.5	348.9	316.9	276.5	276.5	273.5
70°	2366.4	1848.8	317.4	234.1	229.1	288.0	349.9	300.0	257.1	255.6	248.1
72.5°	1424.0	1090.6	247.6	219.1	210.1	255.6	327.9	280.0	238.1	225.6	216.6
75°	739.7	546.5	207.6	202.6	180.2	216.6	300.0	249.1	203.6	192.7	187.7
77.5°	316.9	255.6	178.2	180.7	149.7	182.2	242.1	215.6	180.7	166.7	162.2
80°	156.2	145.2	140.8	144.7	119.8	140.8	208.6	188.7	153.2	137.3	130.8
82.5°	89.3	84.9	101.3	102.8	85.4	117.8	176.2	159.7	126.8	109.3	98.8
85°	41.4	44.4	61.4	61.9	52.9	80.9	115.3	89.8	67.4	55.9	53.4
87.5°	16.5	19.5	27.0	26.5	15.5	15.0	10.0	5.5	4.5	4.0	3.5
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)