

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: P631852

Luminaire Tested: GWS-SA2B-740-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631852  
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-740-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

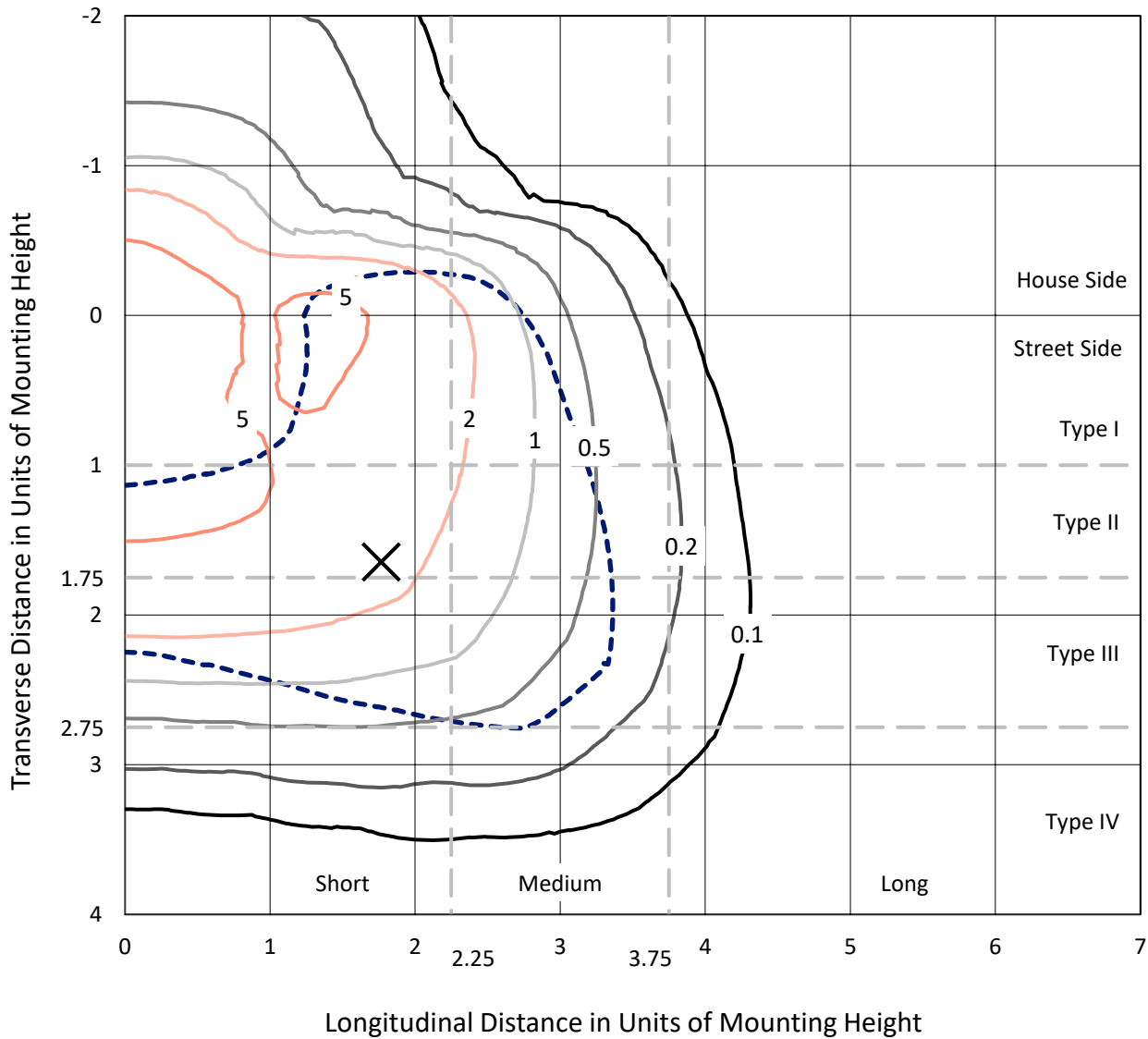
Lumens per Lamp: N/A  
Luminaire Lumens: 6842.1 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P631852  
 CATALOG NUMBER: GWS-SA2B-740-U-T4W-W

### Iso-Footcandle Lines of Horizontal Illumination

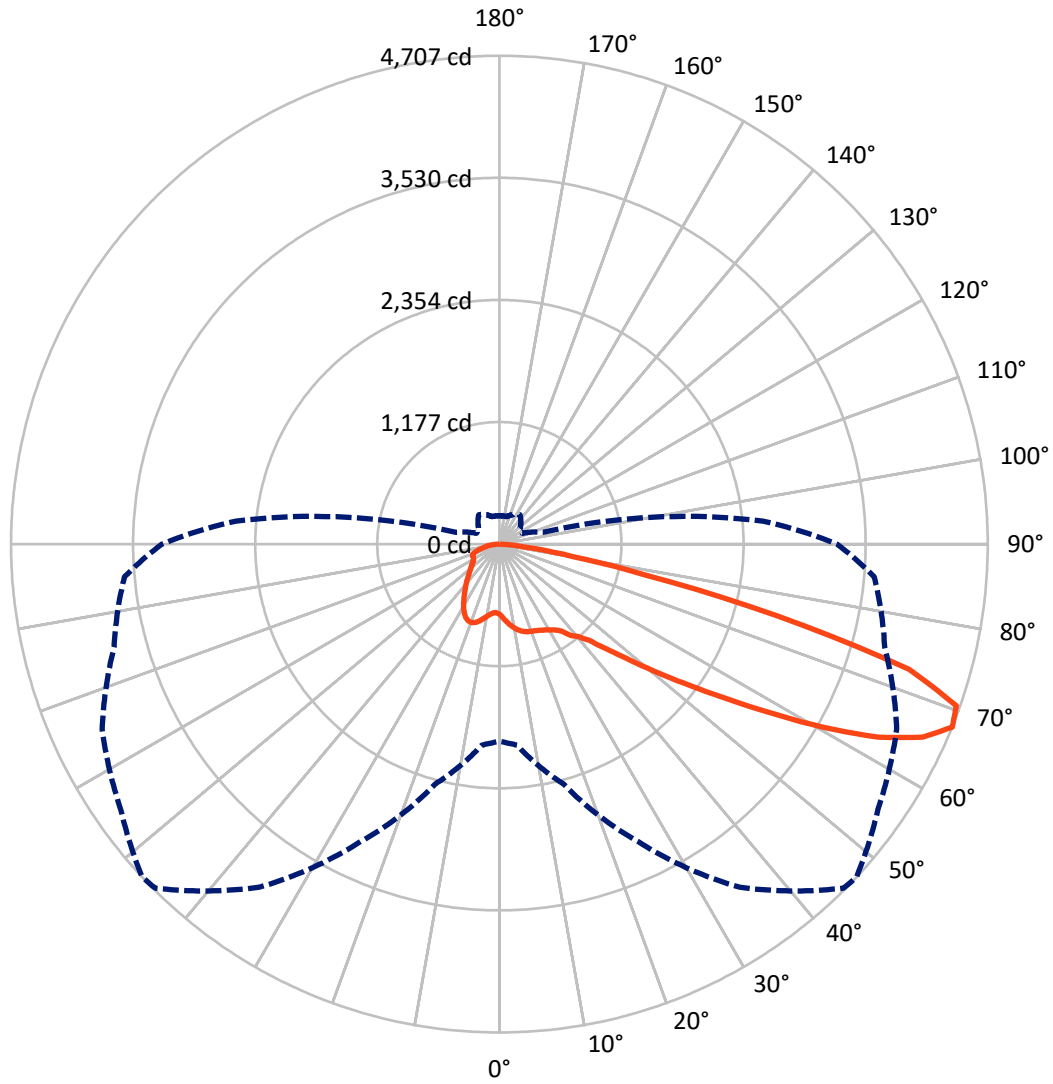
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P631852  
CATALOG NUMBER: GWS-SA2B-740-U-T4W-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P631852

CATALOG NUMBER: GWS-SA2B-740-U-T4W-W

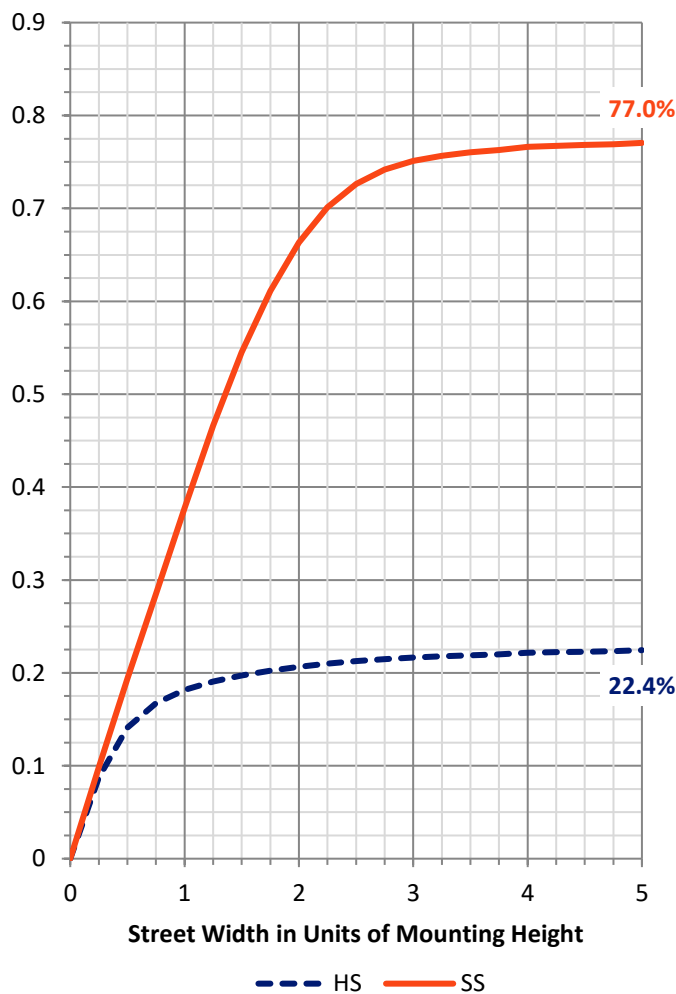
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1559.4	0.0	1559.4
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	5282.7	0.0	5282.7
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	6842.1	0.0	6842.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	1.0
10°-20°	230.9	3.4
20°-30°	392.5	5.7
30°-40°	575.0	8.4
40°-50°	876.2	12.8
50°-60°	1567.6	22.9
60°-70°	2091.8	30.6
70°-80°	946.0	13.8
80°-90°	92.7	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°	6842.1	100.0
0°-180°	6842.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631852

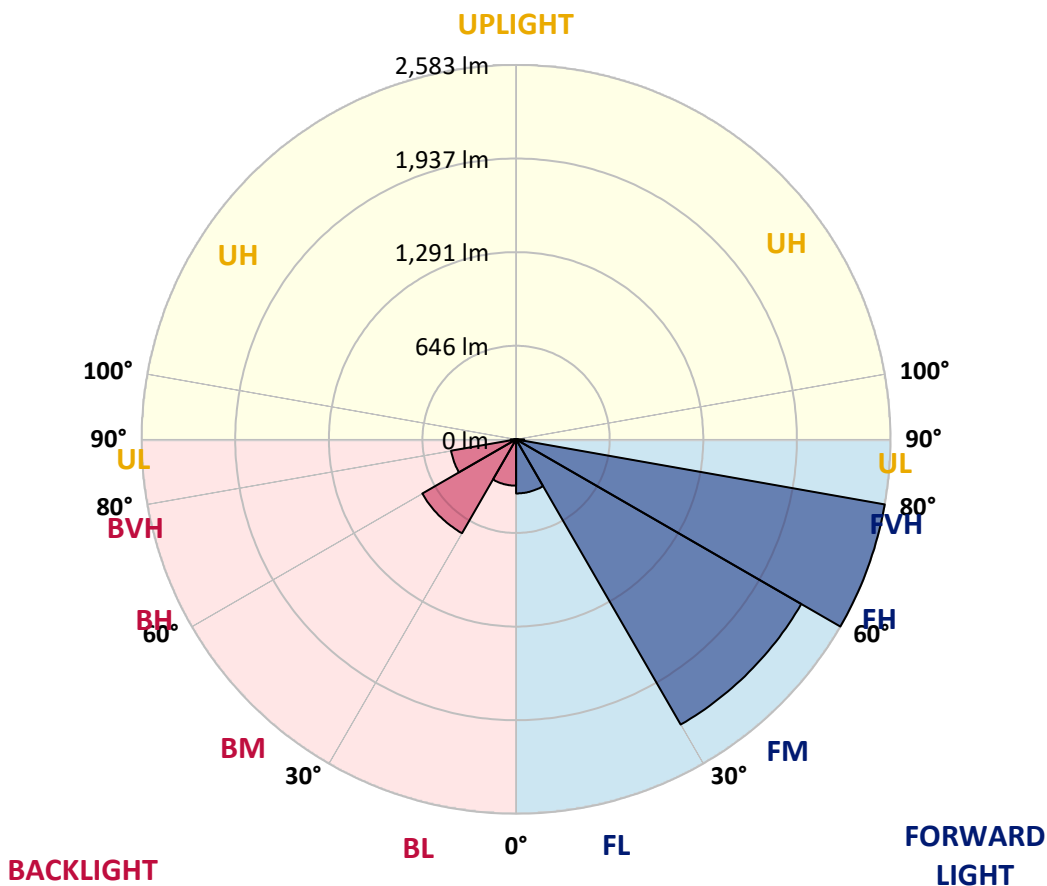
CATALOG NUMBER: GWS-SA2B-740-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.1	5.5			
FM (30°-60°)	2271.6	33.2			
FH (60°-80°)	2582.8	37.7			G2/5000
FVH (80°-90°)	55.1	0.8			G1/100
BL (0°-30°)	319.7	4.7	B1/500		
BM (30°-60°)	747.2	10.9	B1/1000		
BH (60°-80°)	455.0	6.6	B1/500		G1/500
BVH (80°-90°)	37.5	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





REPORT NUMBER: P631852  
 CATALOG NUMBER: GWS-SA2B-740-U-T4W-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
2.5°	723.3	725.8	725.3	721.3	718.8	714.4	714.9	708.0	697.6	690.6	682.7
5°	787.1	791.1	786.1	779.7	769.8	755.4	754.0	738.1	718.3	704.5	690.1
7.5°	842.5	845.0	839.1	828.2	813.8	794.5	791.1	772.3	747.5	725.8	705.0
10°	885.6	888.5	880.6	866.3	847.5	828.2	825.7	806.4	780.2	754.5	728.2
12.5°	922.2	923.2	914.7	895.5	875.2	855.4	852.9	835.1	810.9	784.6	755.9
15°	943.4	943.9	933.5	912.3	893.0	875.7	874.2	858.8	836.6	811.8	781.2
17.5°	942.0	942.9	935.5	916.7	899.9	889.5	888.0	878.1	860.8	838.6	807.9
20°	923.7	924.6	919.7	907.3	898.4	895.5	895.9	893.0	882.6	864.3	833.1
22.5°	909.3	910.8	906.3	897.4	896.4	903.4	904.9	906.3	901.4	885.1	854.9
25°	916.2	918.7	911.8	899.4	901.4	916.7	919.7	924.6	920.7	906.8	880.6
27.5°	964.2	965.7	947.9	922.7	916.7	933.1	937.5	945.4	942.5	929.6	909.3
30°	1075.5	1074.5	1036.4	974.6	949.9	956.3	959.8	971.1	972.1	963.7	944.4
32.5°	1232.4	1227.4	1168.5	1070.1	998.4	982.5	986.5	1001.8	1013.2	1004.3	978.1
35°	1398.1	1393.6	1328.8	1213.6	1087.9	1033.0	1028.5	1040.4	1057.7	1033.0	995.4
37.5°	1555.9	1549.0	1482.7	1340.2	1198.2	1121.5	1115.1	1103.2	1092.8	1045.4	1016.7
40°	1731.0	1723.1	1665.2	1504.0	1319.9	1189.3	1173.0	1126.0	1116.6	1086.4	1072.1
42.5°	1918.1	1918.1	1870.1	1711.3	1466.9	1286.3	1265.0	1194.3	1204.2	1184.4	1167.6
45°	2105.1	2110.5	2072.4	1920.0	1663.3	1469.3	1435.2	1334.8	1358.5	1349.6	1341.2
47.5°	2264.4	2274.7	2267.3	2133.3	1903.7	1692.0	1640.0	1535.6	1586.6	1607.9	1631.6
50°	2436.0	2447.4	2440.0	2387.1	2185.2	1961.6	1915.1	1807.2	1894.8	1958.6	2036.3
52.5°	2690.8	2707.1	2645.3	2625.0	2527.1	2267.8	2226.3	2103.6	2262.4	2368.3	2541.4
55°	2906.0	2905.5	2883.8	2930.3	2894.1	2642.3	2596.3	2485.0	2687.8	2800.1	3053.4
57.5°	3006.0	3017.8	3092.5	3224.1	3296.4	3099.9	3055.9	2942.1	3144.5	3202.9	3476.4
60°	3057.4	3072.2	3216.7	3476.9	3671.4	3599.6	3582.3	3437.4	3551.1	3544.2	3833.1
62.5°	2985.2	3014.9	3246.9	3592.7	3939.0	4101.8	4096.3	3877.2	3897.0	3829.2	4054.3
65°	2653.7	2685.9	3050.0	3534.8	4091.9	4483.7	4485.2	4275.4	4162.6	3967.7	4017.2
67.5°	1897.8	1943.8	2394.0	3162.8	4037.9	4690.0	4707.3	4456.0	4225.0	3845.0	3627.3
70°	1034.5	1068.1	1420.9	2299.0	3552.1	4640.5	4672.7	4368.9	3949.9	3326.0	2792.2
72.5°	470.0	480.9	661.0	1261.5	2426.6	3994.4	4129.0	3898.9	3243.9	2456.8	1775.6
75°	215.2	220.2	287.9	603.6	1268.0	2673.0	2767.5	2904.0	2257.4	1551.5	925.6
77.5°	135.1	136.5	163.8	276.1	632.3	1334.3	1433.7	1729.1	1321.9	767.8	386.9
80°	79.7	81.1	101.9	149.4	296.8	610.5	705.0	683.7	621.4	331.5	176.1
82.5°	40.1	41.6	58.9	85.1	161.8	242.9	286.0	287.4	231.5	179.6	99.4
85°	14.3	14.8	19.3	33.6	68.8	80.1	89.5	109.3	113.3	104.4	48.0
87.5°	0.0	0.0	0.5	1.0	2.0	7.9	8.4	15.8	33.1	37.1	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631852  
 CATALOG NUMBER: GWS-SA2B-740-U-T4W-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3	678.3
2.5°	680.2	672.8	670.4	667.9	663.9	662.4	659.5	656.5	656.5	653.5	652.0
5°	683.7	673.8	667.4	664.4	661.9	663.4	663.4	664.4	667.9	665.9	666.9
7.5°	696.1	684.7	675.8	673.3	673.3	679.3	683.2	688.2	694.6	695.6	695.6
10°	717.8	704.5	695.1	693.6	696.1	704.5	710.4	716.4	724.3	724.8	725.8
12.5°	741.6	728.2	718.8	720.8	723.3	734.2	740.6	745.6	753.5	753.5	753.0
15°	766.3	751.5	743.6	747.5	755.0	767.3	768.3	768.8	772.8	771.8	771.3
17.5°	792.1	776.2	770.3	776.2	784.1	790.1	785.1	778.2	776.7	774.7	773.8
20°	817.3	801.0	798.5	802.9	805.4	800.5	785.1	772.3	766.3	763.4	762.4
22.5°	839.1	825.2	823.7	823.7	811.3	794.0	771.3	754.0	746.0	742.1	741.1
25°	864.8	851.9	849.4	836.1	804.4	772.8	742.1	726.3	719.8	717.8	718.3
27.5°	895.0	886.1	878.1	840.0	784.6	735.2	700.5	693.6	691.1	693.6	695.1
30°	932.1	923.2	905.3	835.1	753.0	686.2	653.0	652.5	660.0	666.4	667.4
32.5°	962.2	958.3	929.1	819.3	708.4	632.3	604.1	606.0	619.4	628.3	629.8
35°	986.0	992.4	948.9	793.0	655.5	581.3	559.0	560.0	567.5	579.8	580.3
37.5°	1019.6	1041.4	966.7	753.0	594.7	537.3	517.0	509.6	508.6	512.0	513.0
40°	1087.4	1120.1	979.6	694.6	535.8	497.7	474.9	460.6	448.2	438.8	435.9
42.5°	1189.8	1227.4	987.0	623.8	483.3	458.6	432.9	414.6	392.8	373.0	366.1
45°	1377.8	1390.2	987.0	548.7	436.8	422.0	396.3	374.5	346.8	323.6	318.6
47.5°	1678.6	1639.0	988.0	475.9	395.8	389.8	367.6	342.8	312.2	292.9	289.9
50°	2131.8	1992.8	1008.3	415.6	361.6	362.6	346.3	319.1	291.4	277.0	274.6
52.5°	2645.3	2428.6	1062.7	371.0	333.0	340.4	331.5	305.2	280.5	268.1	265.7
55°	3128.1	2829.3	1109.2	339.4	308.7	321.6	321.1	296.8	274.6	262.2	260.7
57.5°	3538.8	3103.9	1102.2	313.7	287.9	304.3	311.7	291.4	270.6	260.2	258.7
60°	3794.0	3249.4	1003.8	289.9	272.1	291.9	306.2	289.9	272.6	270.1	270.6
62.5°	3904.9	3222.6	814.8	272.1	261.7	286.0	312.2	300.3	290.9	296.8	300.3
65°	3732.7	2993.1	599.6	258.7	251.8	287.4	326.0	316.6	290.9	294.9	296.3
67.5°	3254.8	2547.8	433.4	245.4	239.4	291.9	345.8	314.2	274.1	274.1	271.1
70°	2345.5	1832.5	314.6	232.0	227.1	285.5	346.8	297.3	254.8	253.3	245.9
72.5°	1411.5	1081.0	245.4	217.2	208.3	253.3	325.0	277.5	236.0	223.6	214.7
75°	733.2	541.7	205.8	200.9	178.6	214.7	297.3	246.9	201.8	191.0	186.0
77.5°	314.2	253.3	176.6	179.1	148.4	180.6	239.9	213.7	179.1	165.2	160.8
80°	154.8	144.0	139.5	143.5	118.7	139.5	206.8	187.0	151.9	136.0	129.6
82.5°	88.6	84.1	100.4	101.9	84.6	116.8	174.6	158.3	125.7	108.3	98.0
85°	41.1	44.0	60.9	61.3	52.4	80.1	114.3	89.1	66.8	55.4	52.9
87.5°	16.3	19.3	26.7	26.2	15.3	14.8	9.9	5.4	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)