

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: P643195

Luminaire Tested: GWS-SA6E-740-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

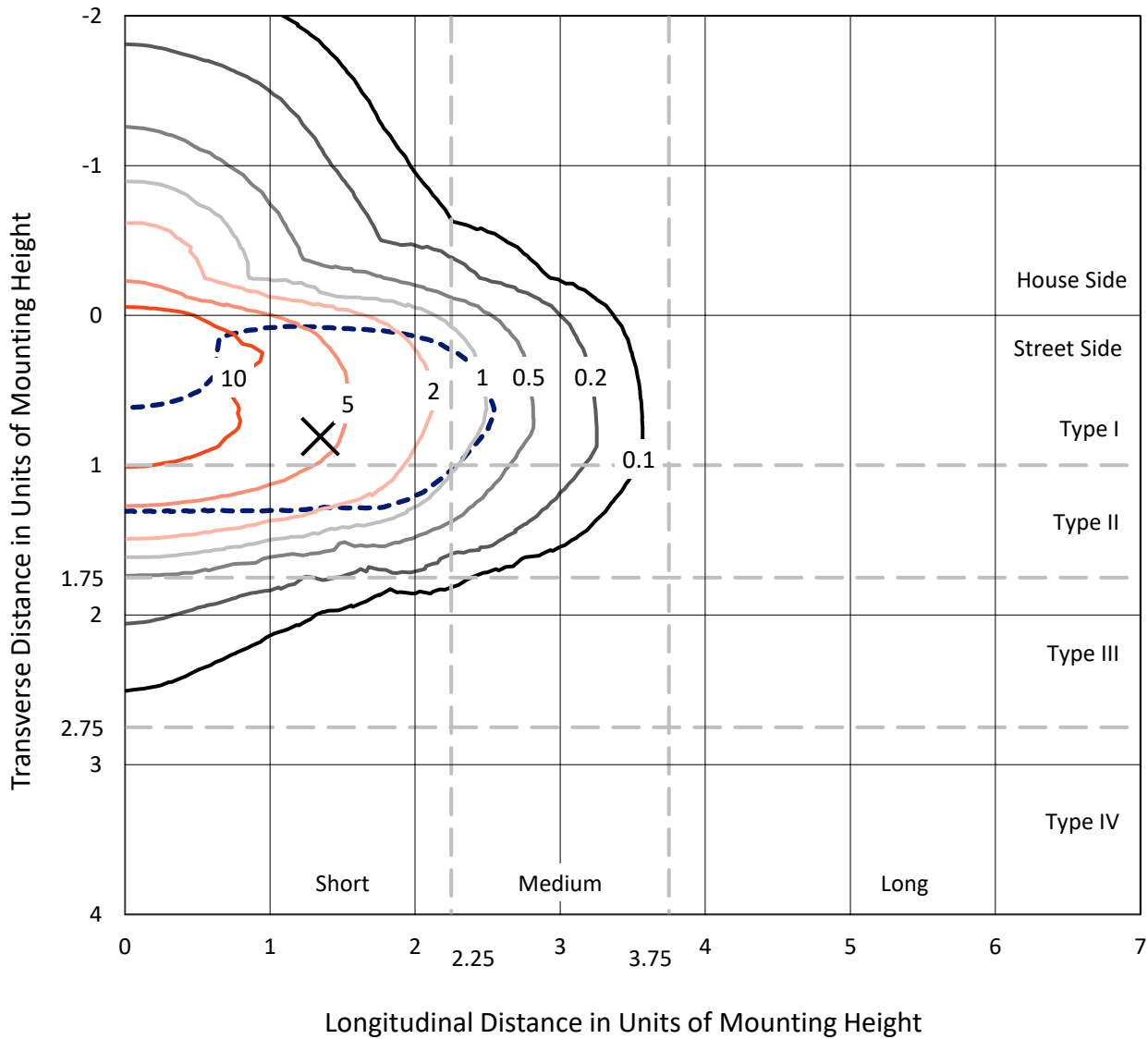
Lumens per Lamp: N/A  
Luminaire Lumens: 45584.4 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P643195  
 CATALOG NUMBER: GWS-SA6E-740-U-AFL-W

### Iso-Footcandle Lines of Horizontal Illumination

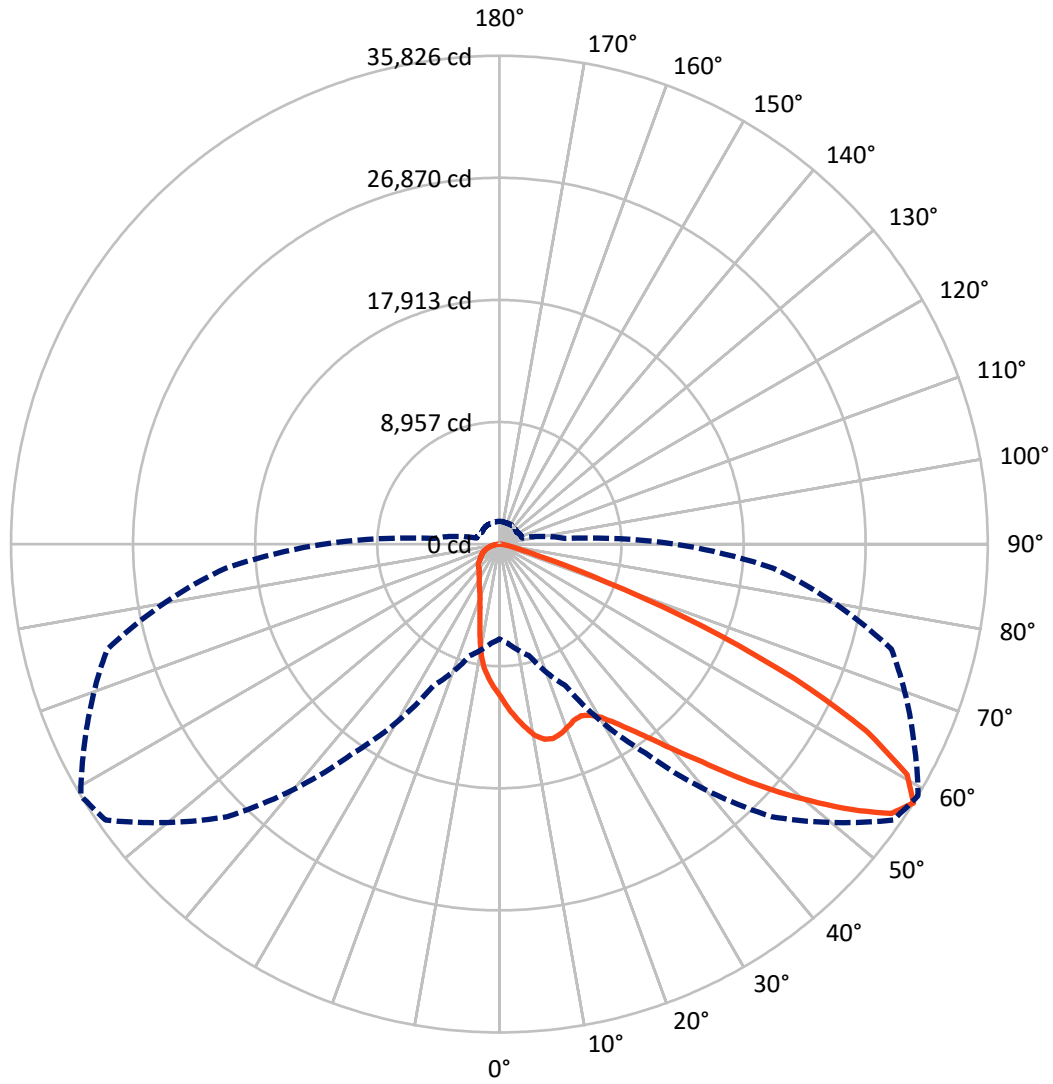
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P643195  
CATALOG NUMBER: GWS-SA6E-740-U-AFL-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643195

CATALOG NUMBER: GWS-SA6E-740-U-AFL-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7074.5	0.0	7074.5
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	38509.9	0.0	38509.9
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	45584.4	0.0	45584.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1039.0	2.3
10°-20°	2632.9	5.8
20°-30°	4267.9	9.4
30°-40°	6865.5	15.1
40°-50°	10661.5	23.4
50°-60°	11483.8	25.2
60°-70°	6664.7	14.6
70°-80°	1739.9	3.8
80°-90°	229.2	0.5
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°	45584.4	100.0
0°-180°	45584.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643195

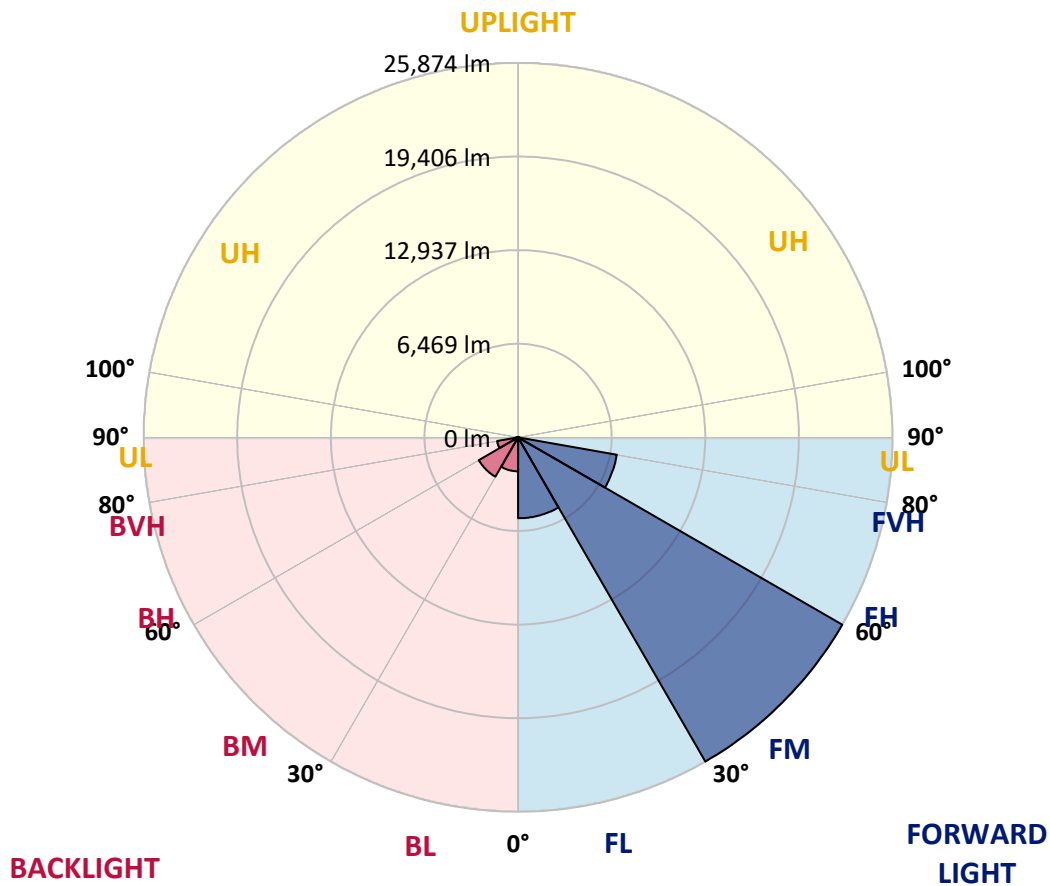
CATALOG NUMBER: GWS-SA6E-740-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5592.8	12.3			
FM (30°-60°)	25874.2	56.8			
FH (60°-80°)	6933.2	15.2			G3/7500
FVH (80°-90°)	109.7	0.2			G2/225
BL (0°-30°)	2347.0	5.1	B3/2500		
BM (30°-60°)	3136.5	6.9	B3/5000		
BH (60°-80°)	1471.4	3.2	B3/2500		G3/2500
BVH (80°-90°)	119.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P643195  
 CATALOG NUMBER: GWS-SA6E-740-U-AFL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	12691.9	12586.0	12659.8	12528.2	12473.7	12329.3	12143.2	12018.0	11825.5	11575.1	11356.9
5°	13953.1	13879.3	13895.3	13754.1	13629.0	13388.3	13006.4	12794.6	12467.3	11963.4	11494.9
7.5°	13914.6	14001.2	14049.3	14171.3	14206.6	14184.1	13840.8	13545.5	13186.1	12428.8	11722.8
10°	12473.7	12637.4	12785.0	13202.2	13709.2	14351.0	14431.2	14254.7	13892.1	13022.4	11995.5
12.5°	10904.5	11029.6	11161.2	11661.8	12438.4	13722.0	14591.7	14700.8	14556.4	13609.7	12303.6
15°	10134.3	10192.0	10317.2	10647.7	11267.1	12691.9	14312.5	14790.6	15050.6	14232.3	12650.2
17.5°	10102.2	10127.9	10188.8	10365.3	10795.3	11896.1	13808.7	14610.9	15438.9	14890.1	13054.5
20°	10766.5	10699.1	10660.6	10657.4	10869.2	11629.7	13320.9	14322.1	15621.8	15564.0	13487.8
22.5°	11687.5	11709.9	11626.5	11421.1	11395.4	11819.0	13077.0	14030.1	15676.4	16160.9	13888.9
25°	12993.6	13105.9	12858.8	12467.3	12274.7	12367.8	13227.8	13940.2	15669.9	16658.3	14139.2
27.5°	14517.9	14604.5	14354.2	13840.8	13442.8	13218.2	13677.1	14206.6	15724.5	17088.3	14290.0
30°	16254.0	16282.9	15939.5	15400.4	14819.5	14338.2	14424.8	14755.3	16003.7	17653.1	14466.5
32.5°	18375.2	18497.1	17977.3	17123.6	16311.7	15695.6	15429.3	15641.1	16607.0	18320.6	14739.3
35°	21067.6	21109.3	20448.3	19225.6	18076.7	17223.1	16664.7	16777.1	17524.8	19254.5	15150.1
37.5°	23606.0	23647.7	22944.9	21808.9	20165.9	18997.7	18189.1	18137.7	18699.3	20573.4	15820.8
40°	25216.9	25335.7	25021.2	24308.8	22739.5	21163.9	20066.4	19889.9	20239.7	22187.6	16754.6
42.5°	26083.4	26134.7	26128.3	26221.4	25287.5	23721.5	22184.4	21831.4	22065.6	23930.1	17698.1
45°	26089.8	26218.2	26561.5	27456.9	27498.6	26523.0	24860.7	24308.8	24093.8	25685.5	18683.3
47.5°	24921.7	25059.7	26003.2	27765.0	29064.6	29286.1	28066.6	26959.5	26054.5	27196.9	19491.9
50°	21385.3	21731.9	23529.0	26645.0	29372.7	31500.3	31124.9	29623.0	27797.0	28365.0	19999.0
52.5°	18314.2	18301.4	19408.5	23480.8	28085.9	32475.9	34083.6	32363.6	29520.3	29106.3	20127.3
55°	13410.7	13484.6	14617.4	17958.0	24652.1	31532.4	35710.6	34885.9	31497.1	29501.1	20076.0
57.5°	6954.1	7319.9	8481.6	11459.6	18731.4	28284.8	35277.4	35826.2	33506.0	29780.3	20143.4
60°	3513.9	3443.3	3860.5	5471.5	10853.1	22091.3	32607.5	34356.4	33868.6	29998.5	20185.1
62.5°	2345.8	2326.6	2211.1	2535.2	4434.9	13083.4	27797.0	30248.8	31349.5	29485.0	19652.4
65°	2031.3	1992.8	1781.0	1768.2	2153.3	5426.6	20374.4	23779.3	25910.1	27203.4	18378.4
67.5°	1829.2	1771.4	1556.4	1450.5	1546.8	2384.3	11482.1	15949.1	19132.5	23005.9	15586.5
70°	1633.4	1604.5	1389.5	1235.5	1225.9	1453.7	4229.6	8231.3	11706.7	15695.6	11395.4
72.5°	1463.3	1412.0	1229.1	1081.5	1007.7	1030.1	1835.6	3170.6	6058.7	9790.9	6816.1
75°	1267.6	1229.1	1068.6	921.0	831.2	754.1	1120.0	1466.5	2763.0	4653.2	3218.7
77.5°	978.8	953.1	844.0	731.7	680.3	561.6	680.3	924.2	1277.2	1960.7	1675.1
80°	568.0	584.1	629.0	571.2	500.6	401.1	442.9	532.7	767.0	1062.2	949.9
82.5°	285.6	304.9	407.6	330.5	298.4	234.3	263.1	314.5	401.1	587.3	372.3
85°	22.5	22.5	73.8	83.4	102.7	83.4	105.9	128.4	182.9	234.3	125.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.6	16.0	28.9	54.6	35.3
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: P643195  
 CATALOG NUMBER: GWS-SA6E-740-U-AFL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	11209.3	11045.7	10849.9	10689.4	10442.3	10310.8	10143.9	9938.5	9855.1	9816.6	9794.1
5°	11231.8	10943.0	10525.8	10140.7	9713.9	9376.9	9001.5	8610.0	8385.3	8330.8	8292.3
7.5°	11315.2	10910.9	10246.6	9611.2	8818.5	8083.7	7368.0	6658.8	6296.2	6158.2	6145.4
10°	11430.7	10898.0	9964.2	8908.4	7570.2	6408.5	5571.0	5015.8	4781.5	4704.5	4678.8
12.5°	11575.1	10888.4	9591.9	7932.8	6129.3	5031.8	4553.7	4463.8	4495.9	4489.5	4489.5
15°	11758.1	10901.2	9142.7	6828.9	4958.0	4367.6	4377.2	4483.1	4582.6	4598.6	4598.6
17.5°	11957.0	10888.4	8491.2	5721.8	4255.2	4210.3	4357.9	4505.5	4595.4	4608.2	4608.2
20°	12172.0	10827.4	7669.7	4678.8	3947.2	4110.8	4271.3	4386.8	4441.4	4454.2	4454.2
22.5°	12300.4	10654.1	6777.6	3960.0	3751.4	3953.6	4059.5	4178.2	4184.6	4081.9	4078.7
25°	12281.1	10330.0	5760.3	3497.9	3542.8	3719.3	3854.1	3770.7	3668.0	3610.2	3600.6
27.5°	12159.2	9842.2	4723.8	3148.1	3295.7	3494.7	3453.0	3382.4	3356.7	3292.5	3286.1
30°	12005.2	9242.1	3793.1	2875.3	3039.0	3221.9	3157.7	3151.3	3125.6	3055.0	3055.0
32.5°	11857.5	8622.8	3090.3	2673.2	2875.3	2888.2	2978.0	2984.4	2971.6	2849.7	2836.8
35°	11815.8	8003.4	2615.4	2512.7	2714.9	2708.5	2836.8	2833.6	2612.2	2442.1	2438.9
37.5°	11941.0	7374.5	2333.0	2381.1	2493.5	2576.9	2679.6	2493.5	2419.6	2317.0	2310.5
40°	12207.3	6793.6	2188.6	2304.1	2352.3	2474.2	2313.7	2326.6	2307.3	2230.3	2220.7
42.5°	12560.3	6299.4	2108.4	2278.4	2272.0	2304.1	2127.6	2179.0	2207.8	2150.1	2140.5
45°	12900.5	5869.4	2066.6	2182.2	2214.3	2028.1	1992.8	2041.0	2085.9	2063.4	2053.8
47.5°	13150.8	5497.2	2044.2	2050.6	2140.5	1935.1	1877.3	1899.8	1954.3	1964.0	1960.7
50°	13227.8	5179.5	2018.5	1941.5	1922.2	1842.0	1797.1	1790.7	1854.8	1899.8	1906.2
52.5°	13080.2	4897.1	1951.1	1845.2	1752.2	1765.0	1748.9	1716.9	1781.0	1842.0	1848.4
55°	12862.0	4736.6	1845.2	1752.2	1643.0	1694.4	1700.8	1671.9	1713.6	1755.4	1755.4
57.5°	12878.0	4829.7	1742.5	1665.5	1546.8	1614.2	1649.5	1636.6	1636.6	1668.7	1671.9
60°	12983.9	4964.4	1675.1	1556.4	1450.5	1521.1	1601.3	1588.5	1559.6	1601.3	1601.3
62.5°	12679.1	4784.7	1630.2	1450.5	1347.8	1431.2	1527.5	1521.1	1489.0	1556.4	1562.8
65°	11780.5	4303.4	1578.9	1318.9	1245.1	1341.4	1424.8	1447.3	1418.4	1508.3	1524.3
67.5°	9874.3	3619.8	1479.4	1193.8	1142.4	1232.3	1312.5	1344.6	1322.1	1428.0	1440.9
70°	7361.6	2929.9	1322.1	1055.8	1017.3	1097.5	1171.3	1184.2	1187.4	1312.5	1325.3
72.5°	4694.9	2278.4	1113.6	901.8	872.9	933.8	988.4	1039.7	1062.2	1180.9	1177.7
75°	2618.6	1694.4	895.3	763.8	712.4	760.6	824.7	885.7	949.9	1123.2	1142.4
77.5°	1508.3	1190.6	709.2	612.9	552.0	603.3	657.9	744.5	937.1	1087.9	1068.6
80°	850.4	773.4	535.9	449.3	410.8	449.3	491.0	654.7	738.1	802.3	811.9
82.5°	397.9	433.2	365.8	276.0	276.0	301.7	340.2	507.0	558.4	455.7	397.9
85°	144.4	195.8	179.7	141.2	125.2	121.9	211.8	288.8	179.7	160.5	138.0
87.5°	38.5	54.6	51.3	35.3	19.3	16.0	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)