

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: P643250

Luminaire Tested: GWS-SA6E-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643250  
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-750-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

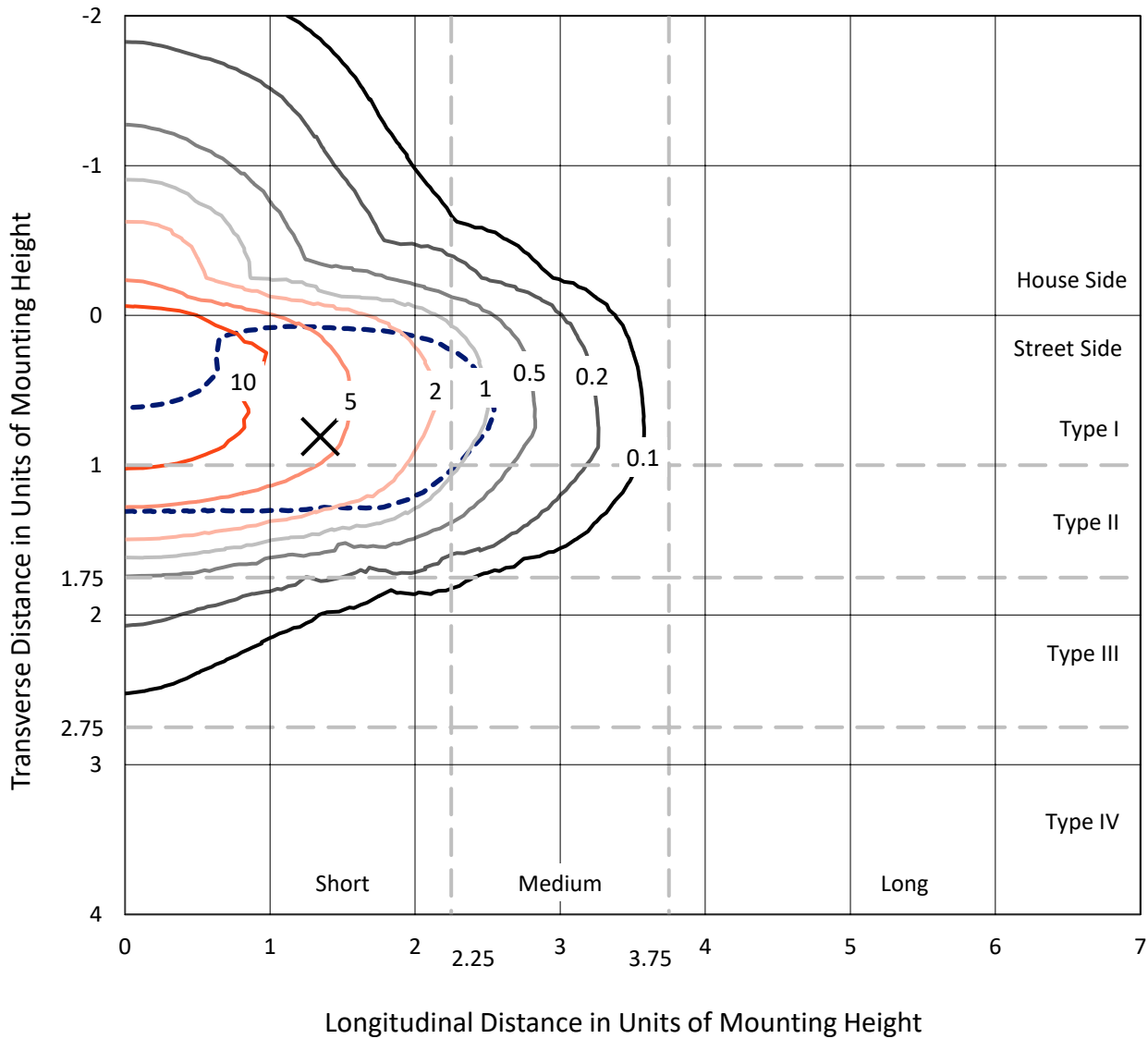
Lumens per Lamp: N/A  
Luminaire Lumens: 46629 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

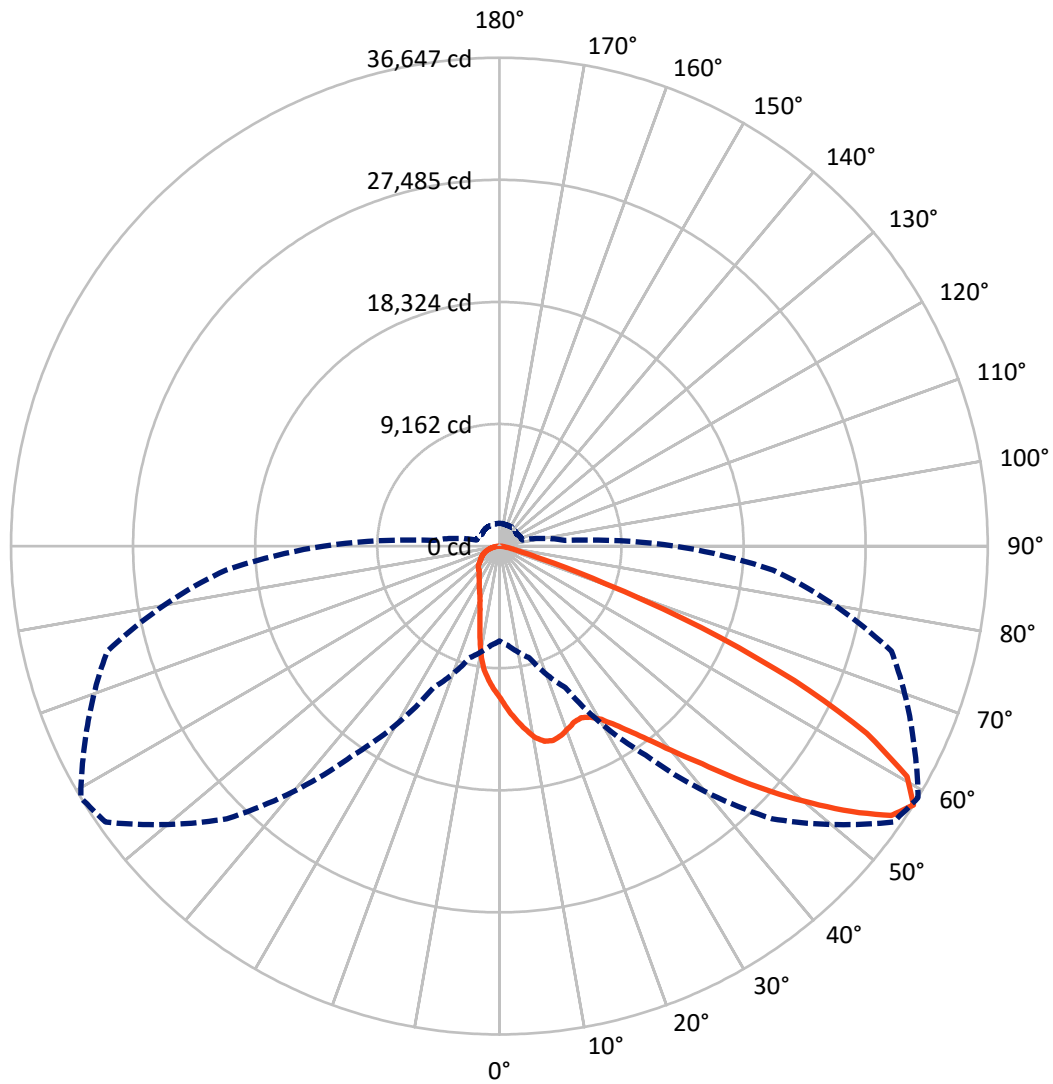
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7236.6	0.0	7236.6
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	39392.4	0.0	39392.4
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	46629.0	0.0	46629.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1062.8	2.3
10°-20°	2693.2	5.8
20°-30°	4365.7	9.4
30°-40°	7022.8	15.1
40°-50°	10905.8	23.4
50°-60°	11747.0	25.2
60°-70°	6817.5	14.6
70°-80°	1779.8	3.8
80°-90°	234.4	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°	46629.0	100.0
0°-180°	46629.0	100.0

**Coefficient of Utilization**



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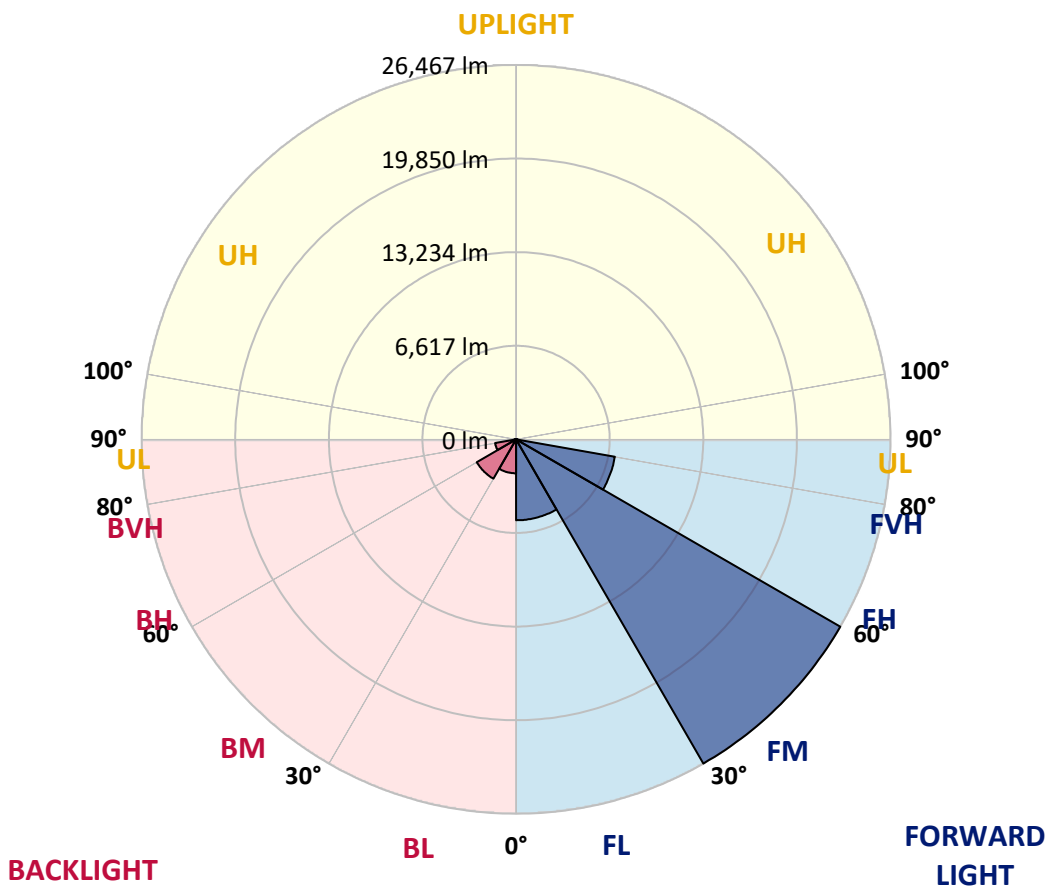
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5720.9	12.3			
FM (30°-60°)	26467.2	56.8			
FH (60°-80°)	7092.1	15.2			G3/7500
FVH (80°-90°)	112.2	0.2			G2/225
BL (0°-30°)	2400.8	5.1	B3/2500		
BM (30°-60°)	3208.4	6.9	B3/5000		
BH (60°-80°)	1505.2	3.2	B3/2500		G3/2500
BVH (80°-90°)	122.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5
2.5°	12982.8	12874.4	12949.9	12815.3	12759.5	12611.8	12421.4	12293.4	12096.4	11840.4	11617.2
5°	14272.8	14197.3	14213.7	14069.3	13941.3	13695.1	13304.4	13087.8	12753.0	12237.6	11758.3
7.5°	14233.4	14322.1	14371.3	14496.0	14532.1	14509.2	14157.9	13855.9	13488.3	12713.6	11991.4
10°	12759.5	12926.9	13077.9	13504.7	14023.3	14679.9	14761.9	14581.4	14210.5	13320.9	12270.4
12.5°	11154.3	11282.4	11416.9	11929.0	12723.4	14036.5	14926.1	15037.7	14890.0	13921.6	12585.6
15°	10366.5	10425.6	10553.6	10891.7	11525.3	12982.8	14640.5	15129.6	15395.5	14558.4	12940.1
17.5°	10333.7	10359.9	10422.3	10602.9	11042.7	12168.7	14125.1	14945.8	15792.7	15231.3	13353.7
20°	11013.2	10944.2	10904.9	10901.6	11118.2	11896.2	13626.1	14650.3	15979.8	15920.7	13796.8
22.5°	11955.3	11978.3	11892.9	11682.8	11656.6	12089.9	13376.7	14351.6	16035.6	16531.3	14207.2
25°	13291.3	13406.2	13153.4	12753.0	12556.0	12651.2	13530.9	14259.7	16029.0	17040.1	14463.2
27.5°	14850.6	14939.2	14683.1	14157.9	13750.9	13521.1	13990.5	14532.1	16084.8	17479.9	14617.5
30°	16626.5	16656.0	16304.8	15753.3	15159.1	14666.7	14755.4	15093.5	16370.4	18057.7	14798.0
32.5°	18796.3	18921.0	18389.2	17516.0	16685.5	16055.3	15782.8	15999.5	16987.5	18740.5	15077.1
35°	21550.4	21593.1	20916.8	19666.2	18491.0	17617.8	17046.6	17161.5	17926.4	19695.7	15497.2
37.5°	24146.9	24189.6	23470.7	22308.7	20628.0	19433.1	18605.9	18553.4	19127.8	21044.9	16183.3
40°	25794.8	25916.3	25594.6	24865.8	23260.6	21648.9	20526.2	20345.7	20703.5	22696.0	17138.5
42.5°	26681.1	26733.6	26727.1	26822.3	25867.0	24265.1	22692.7	22331.6	22571.3	24478.5	18103.6
45°	26687.7	26819.0	27170.2	28086.1	28128.7	27130.8	25430.4	24865.8	24645.9	26274.1	19111.4
47.5°	25492.8	25634.0	26599.0	28401.2	29730.7	29957.2	28709.8	27577.3	26651.6	27820.2	19938.6
50°	21875.4	22229.9	24068.2	27255.6	30045.8	32222.2	31838.1	30301.8	28434.0	29015.1	20457.3
52.5°	18733.9	18720.8	19853.3	24018.9	28729.5	33220.1	34864.7	33105.2	30196.8	29773.3	20588.6
55°	13718.1	13793.6	14952.3	18369.5	25217.1	32255.0	36529.0	35685.3	32218.9	30177.1	20536.1
57.5°	7113.4	7487.7	8676.0	11722.2	19160.6	28933.0	36085.8	36647.1	34273.8	30462.7	20605.0
60°	3594.5	3522.2	3949.0	5596.9	11101.8	22597.5	33354.7	35143.7	34644.7	30685.9	20647.7
62.5°	2399.6	2379.9	2261.7	2593.3	4536.6	13383.2	28434.0	30942.0	32067.9	30160.7	20102.7
65°	2077.9	2038.5	1821.9	1808.7	2202.6	5550.9	20841.3	24324.2	26503.9	27826.7	18799.6
67.5°	1871.1	1812.0	1592.1	1483.7	1582.2	2439.0	11745.2	16314.6	19571.0	23533.1	15943.7
70°	1670.9	1641.3	1421.4	1263.8	1254.0	1487.0	4326.5	8419.9	11975.0	16055.3	11656.6
72.5°	1496.9	1444.4	1257.2	1106.2	1030.7	1053.7	1877.7	3243.2	6197.6	10015.3	6972.3
75°	1296.6	1257.2	1093.1	942.1	850.2	771.4	1145.6	1500.2	2826.3	4759.8	3292.5
77.5°	1001.2	974.9	863.3	748.4	695.9	574.5	695.9	945.4	1306.5	2005.7	1713.5
80°	581.0	597.4	643.4	584.3	512.1	410.3	453.0	544.9	784.5	1086.5	971.7
82.5°	292.2	311.8	416.9	338.1	305.3	239.6	269.2	321.7	410.3	600.7	380.8
85°	23.0	23.0	75.5	85.3	105.0	85.3	108.3	131.3	187.1	239.6	128.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.8	16.4	29.5	55.8	36.1
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°	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5	11446.5
2.5°	11466.2	11298.8	11098.5	10934.4	10681.6	10547.0	10376.4	10166.3	10080.9	10041.5	10018.5
5°	11489.2	11193.7	10767.0	10373.1	9936.5	9591.8	9207.7	8807.3	8577.5	8521.7	8482.3
7.5°	11574.5	11160.9	10481.4	9831.4	9020.6	8268.9	7536.9	6811.4	6440.5	6299.3	6286.2
10°	11692.7	11147.8	10192.5	9112.5	7743.7	6555.4	5698.6	5130.7	4891.1	4812.3	4786.1
12.5°	11840.4	11137.9	9811.7	8114.6	6269.8	5147.1	4658.0	4566.1	4598.9	4592.4	4592.4
15°	12027.5	11151.1	9352.2	6985.4	5071.6	4467.6	4477.5	4585.8	4687.6	4704.0	4704.0
17.5°	12231.0	11137.9	8685.8	5852.9	4352.8	4306.8	4457.8	4608.8	4700.7	4713.8	4713.8
20°	12451.0	11075.6	7845.5	4786.1	4037.6	4205.0	4369.2	4487.3	4543.1	4556.3	4556.3
22.5°	12582.3	10898.3	6932.9	4050.7	3837.4	4044.2	4152.5	4274.0	4280.5	4175.5	4172.2
25°	12562.6	10566.7	5892.3	3578.1	3624.0	3804.6	3942.4	3857.1	3752.0	3692.9	3683.1
27.5°	12437.8	10067.8	4832.0	3220.2	3371.2	3574.8	3532.1	3459.9	3433.6	3368.0	3361.4
30°	12280.3	9453.9	3880.1	2941.2	3108.6	3295.7	3230.1	3223.5	3197.3	3125.1	3125.1
32.5°	12129.3	8820.4	3161.2	2734.4	2941.2	2954.4	3046.3	3052.8	3039.7	2915.0	2901.8
35°	12086.6	8186.8	2675.3	2570.3	2777.1	2770.5	2901.8	2898.6	2672.1	2498.1	2494.8
37.5°	12214.6	7543.5	2386.5	2435.7	2550.6	2635.9	2741.0	2550.6	2475.1	2370.0	2363.5
40°	12487.1	6949.3	2238.7	2356.9	2406.2	2530.9	2366.8	2379.9	2360.2	2281.4	2271.6
42.5°	12848.2	6443.8	2156.7	2330.7	2324.1	2356.9	2176.4	2228.9	2258.4	2199.4	2189.5
45°	13196.1	6003.9	2114.0	2232.2	2265.0	2074.6	2038.5	2087.7	2133.7	2110.7	2100.9
47.5°	13452.2	5623.1	2091.0	2097.6	2189.5	1979.4	1920.3	1943.3	1999.1	2009.0	2005.7
50°	13530.9	5298.1	2064.8	1986.0	1966.3	1884.2	1838.3	1831.7	1897.4	1943.3	1949.9
52.5°	13379.9	5009.3	1995.8	1887.5	1792.3	1805.4	1789.0	1756.2	1821.9	1884.2	1890.8
55°	13156.7	4845.1	1887.5	1792.3	1680.7	1733.2	1739.8	1710.2	1752.9	1795.6	1795.6
57.5°	13173.1	4940.3	1782.5	1703.7	1582.2	1651.2	1687.3	1674.1	1674.1	1707.0	1710.2
60°	13281.5	5078.2	1713.5	1592.1	1483.7	1556.0	1638.0	1624.9	1595.4	1638.0	1638.0
62.5°	12969.6	4894.4	1667.6	1483.7	1378.7	1464.0	1562.5	1556.0	1523.1	1592.1	1598.6
65°	12050.5	4402.0	1615.0	1349.2	1273.7	1372.1	1457.5	1480.5	1450.9	1542.8	1559.2
67.5°	10100.6	3702.8	1513.3	1221.1	1168.6	1260.5	1342.6	1375.4	1352.4	1460.8	1473.9
70°	7530.3	2997.0	1352.4	1080.0	1040.6	1122.7	1198.2	1211.3	1214.6	1342.6	1355.7
72.5°	4802.5	2330.7	1139.1	922.4	892.9	955.2	1011.0	1063.6	1086.5	1208.0	1204.7
75°	2678.6	1733.2	915.9	781.3	728.7	778.0	843.6	906.0	971.7	1148.9	1168.6
77.5°	1542.8	1217.9	725.5	627.0	564.6	617.1	672.9	761.6	958.5	1112.8	1093.1
80°	869.9	791.1	548.2	459.6	420.2	459.6	502.2	669.7	755.0	820.7	830.5
82.5°	407.0	443.2	374.2	282.3	282.3	308.6	348.0	518.7	571.2	466.1	407.0
85°	147.7	200.2	183.8	144.4	128.0	124.7	216.7	295.4	183.8	164.1	141.2
87.5°	39.4	55.8	52.5	36.1	19.7	16.4	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)