

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: P642755

Luminaire Tested: GWS-SA6D-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642755  
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-SA6D-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**

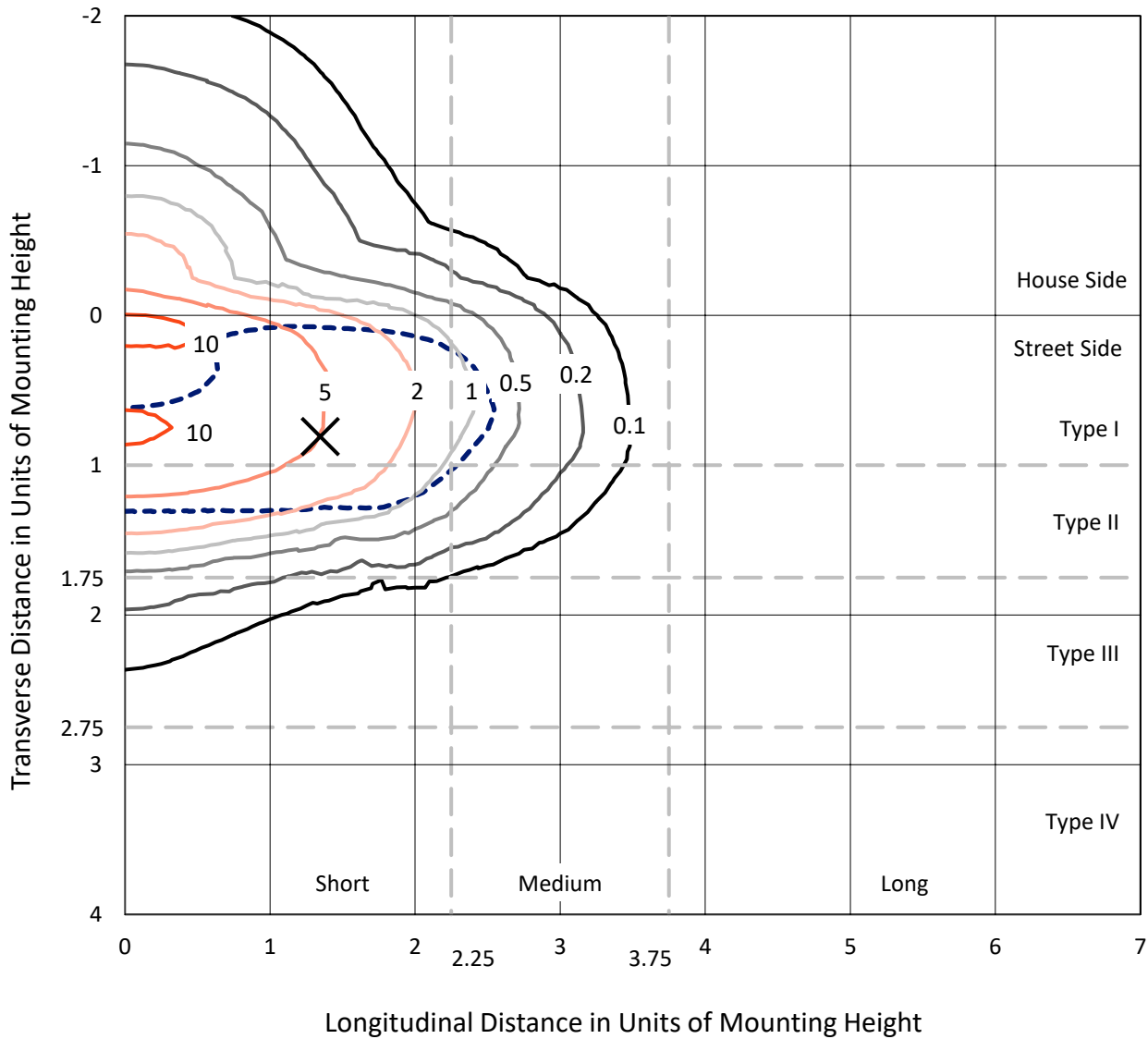
Lumens per Lamp: N/A  
Luminaire Lumens: 37313.7 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

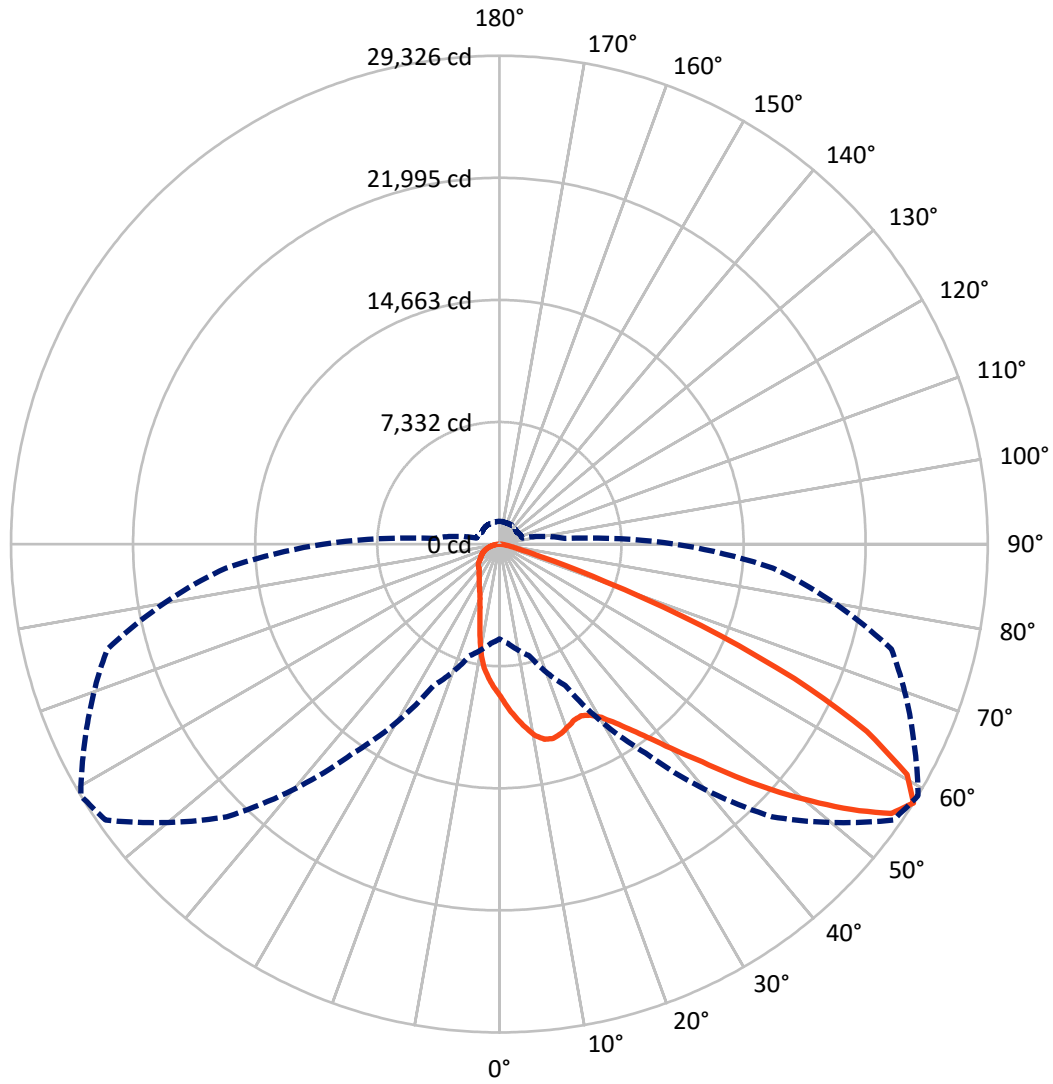
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA6D-750-U-AFL-W

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA6D-750-U-AFL-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5790.9	0.0	5790.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	31522.8	0.0	31522.8
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	37313.7	0.0	37313.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	850.5	2.3
10°-20°	2155.2	5.8
20°-30°	3493.5	9.4
30°-40°	5619.8	15.1
40°-50°	8727.1	23.4
50°-60°	9400.2	25.2
60°-70°	5455.5	14.6
70°-80°	1424.2	3.8
80°-90°	187.6	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°	37313.7	100.0
0°-180°	37313.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642755

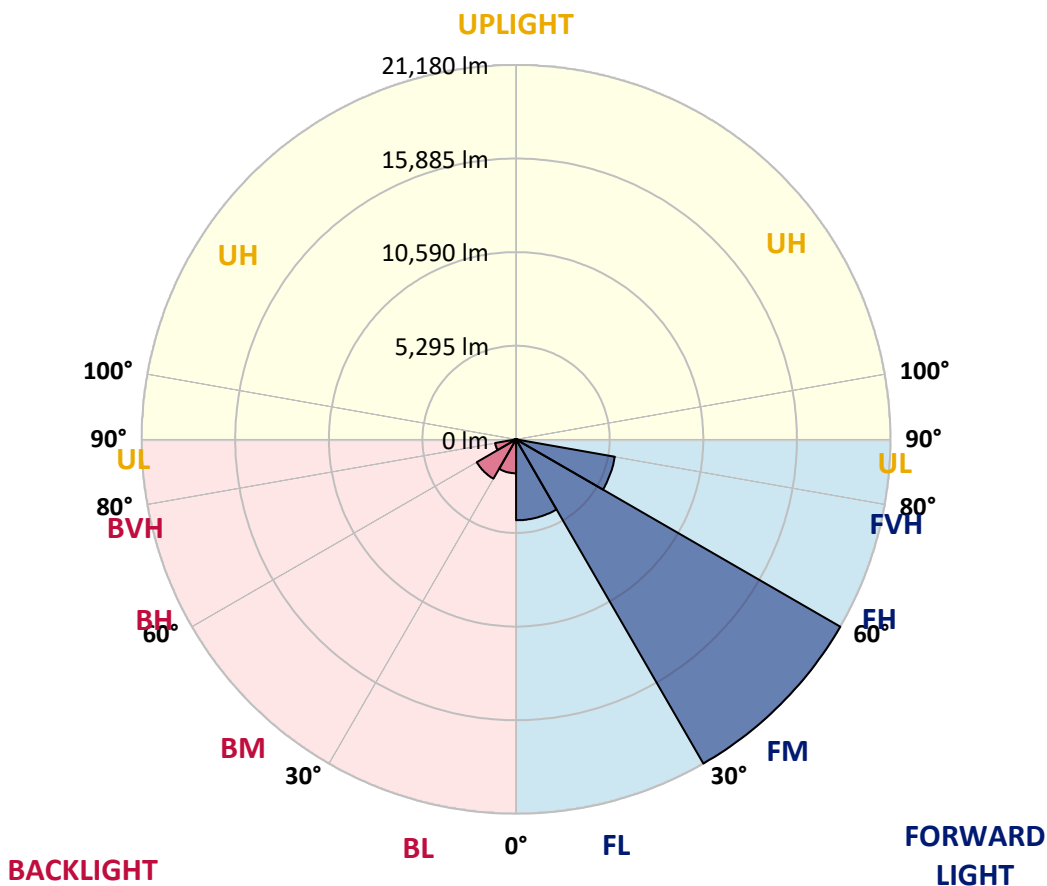
CATALOG NUMBER: GWS-SA6D-750-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4578.0	12.3			
FM (30°-60°)	21179.7	56.8			
FH (60°-80°)	5675.3	15.2			G3/7500
FVH (80°-90°)	89.8	0.2			G1/100
BL (0°-30°)	1921.2	5.1	B3/2500		
BM (30°-60°)	2567.4	6.9	B3/5000		
BH (60°-80°)	1204.5	3.2	B3/2500		G3/2500
BVH (80°-90°)	97.8	0.3			G1/100
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: P642755

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8
2.5°	10389.1	10302.4	10362.9	10255.2	10210.5	10092.3	9939.9	9837.5	9679.9	9475.0	9296.4
5°	11421.5	11361.1	11374.2	11258.6	11156.2	10959.1	10646.6	10473.2	10205.2	9792.8	9409.3
7.5°	11389.9	11460.9	11500.3	11600.1	11629.0	11610.6	11329.5	11087.9	10793.7	10173.7	9595.8
10°	10210.5	10344.5	10465.3	10806.8	11221.8	11747.2	11812.9	11668.4	11371.6	10659.7	9819.1
12.5°	8926.0	9028.4	9136.1	9545.9	10181.6	11232.3	11944.2	12033.5	11915.3	11140.4	10071.3
15°	8295.5	8342.8	8445.3	8715.8	9222.8	10389.1	11715.7	12107.1	12319.8	11650.0	10355.0
17.5°	8269.3	8290.3	8340.2	8484.7	8836.7	9737.7	11303.3	11960.0	12637.7	12188.5	10686.0
20°	8813.0	8757.9	8726.3	8723.7	8897.1	9519.6	10904.0	11723.6	12787.4	12740.1	11040.6
22.5°	9566.9	9585.3	9517.0	9348.9	9327.9	9674.6	10704.3	11484.5	12832.1	13228.7	11368.9
25°	10636.0	10728.0	10525.7	10205.2	10047.6	10123.8	10827.8	11411.0	12826.8	13635.9	11573.8
27.5°	11883.8	11954.7	11749.8	11329.5	11003.8	10819.9	11195.6	11629.0	12871.5	13987.9	11697.3
30°	13304.9	13328.6	13047.5	12606.2	12130.7	11736.7	11807.6	12078.2	13100.0	14450.2	11841.8
32.5°	15041.2	15141.1	14715.5	14016.8	13352.2	12847.8	12629.8	12803.2	13593.9	14996.6	12065.0
35°	17245.2	17279.3	16738.2	15737.4	14797.0	14098.2	13641.1	13733.1	14345.1	15761.0	12401.3
37.5°	19323.0	19357.1	18781.9	17852.0	16507.0	15550.9	14888.9	14846.9	15306.6	16840.6	12950.3
40°	20641.7	20738.8	20481.4	19898.3	18613.7	17324.0	16425.6	16281.1	16567.4	18161.9	13714.7
42.5°	21350.9	21392.9	21387.7	21463.9	20699.4	19417.6	18159.3	17870.3	18062.1	19588.3	14487.0
45°	21356.2	21461.2	21742.3	22475.2	22509.3	21710.8	20350.1	19898.3	19722.3	21025.2	15293.4
47.5°	20400.0	20512.9	21285.2	22727.4	23791.2	23972.5	22974.3	22068.0	21327.3	22262.4	15955.4
50°	17505.2	17788.9	19259.9	21810.6	24043.4	25785.0	25477.7	24248.3	22753.6	23218.6	16370.4
52.5°	14991.3	14980.8	15887.1	19220.5	22990.0	26583.6	27899.6	26491.6	24164.2	23825.4	16475.5
55°	10977.5	11038.0	11965.2	14699.8	20179.3	25811.3	29231.4	28556.3	25782.4	24148.5	16433.5
57.5°	5692.3	5991.8	6942.7	9380.4	15332.8	23152.9	28876.8	29326.0	27426.8	24377.0	16488.6
60°	2876.4	2818.6	3160.1	4478.8	8883.9	18083.1	26691.3	28122.9	27723.6	24555.6	16522.8
62.5°	1920.2	1904.5	1809.9	2075.2	3630.3	10709.6	22753.6	24760.5	25661.5	24135.3	16086.7
65°	1662.8	1631.3	1457.9	1447.4	1762.6	4442.0	16677.8	19464.8	21209.1	22267.7	15043.9
67.5°	1497.3	1450.0	1274.0	1187.3	1266.1	1951.7	9398.8	13055.4	15661.2	18831.8	12758.5
70°	1337.1	1313.4	1137.4	1011.3	1003.5	1190.0	3462.2	6737.8	9582.7	12847.8	9327.9
72.5°	1197.8	1155.8	1006.1	885.2	824.8	843.2	1502.5	2595.3	4959.5	8014.5	5579.4
75°	1037.6	1006.1	874.7	753.9	680.3	617.3	916.8	1200.5	2261.7	3808.9	2634.7
77.5°	801.2	780.2	690.9	598.9	556.9	459.7	556.9	756.5	1045.5	1605.0	1371.2
80°	464.9	478.1	514.9	467.6	409.8	328.4	362.5	436.1	627.8	869.5	777.5
82.5°	233.8	249.5	333.6	270.6	244.3	191.8	215.4	257.4	328.4	480.7	304.7
85°	18.4	18.4	60.4	68.3	84.1	68.3	86.7	105.1	149.7	191.8	102.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.9	13.1	23.6	44.7	28.9
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°	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8	9159.8
2.5°	9175.5	9041.6	8881.3	8750.0	8547.7	8440.0	8303.4	8135.3	8067.0	8035.5	8017.1
5°	9193.9	8957.5	8616.0	8300.8	7951.4	7675.6	7368.3	7047.8	6863.9	6819.3	6787.7
7.5°	9262.2	8931.2	8387.5	7867.4	7218.5	6617.0	6031.2	5450.7	5153.8	5040.9	5030.4
10°	9356.8	8920.7	8156.3	7292.1	6196.7	5245.8	4560.2	4105.7	3914.0	3850.9	3829.9
12.5°	9475.0	8912.8	7851.6	6493.5	5017.3	4118.9	3727.5	3653.9	3680.2	3674.9	3674.9
15°	9624.7	8923.4	7483.8	5589.9	4058.5	3575.1	3583.0	3669.7	3751.1	3764.3	3764.3
17.5°	9787.6	8912.8	6950.6	4683.6	3483.2	3446.4	3567.2	3688.1	3761.6	3772.1	3772.1
20°	9963.6	8862.9	6278.1	3829.9	3231.0	3365.0	3496.3	3590.9	3635.5	3646.0	3646.0
22.5°	10068.7	8721.1	5547.9	3241.5	3070.8	3236.3	3322.9	3420.1	3425.4	3341.3	3338.7
25°	10052.9	8455.8	4715.2	2863.2	2900.0	3044.5	3154.8	3086.5	3002.5	2955.2	2947.3
27.5°	9953.1	8056.5	3866.7	2576.9	2697.8	2860.6	2826.5	2768.7	2747.7	2695.1	2689.9
30°	9827.0	7565.3	3104.9	2353.6	2487.6	2637.3	2584.8	2579.6	2558.5	2500.7	2500.7
32.5°	9706.1	7058.3	2529.6	2188.2	2353.6	2364.1	2437.7	2443.0	2432.4	2332.6	2322.1
35°	9672.0	6551.3	2140.9	2056.8	2222.3	2217.0	2322.1	2319.5	2138.2	1999.0	1996.4
37.5°	9774.4	6036.5	1909.7	1949.1	2041.0	2109.3	2193.4	2041.0	1980.6	1896.6	1891.3
40°	9992.5	5561.0	1791.5	1886.1	1925.5	2025.3	1893.9	1904.5	1888.7	1825.6	1817.8
42.5°	10281.4	5156.5	1725.8	1865.1	1859.8	1886.1	1741.6	1783.6	1807.3	1760.0	1752.1
45°	10559.9	4804.5	1691.7	1786.2	1812.5	1660.2	1631.3	1670.7	1707.4	1689.1	1681.2
47.5°	10764.8	4499.8	1673.3	1678.5	1752.1	1584.0	1536.7	1555.1	1599.7	1607.6	1605.0
50°	10827.8	4239.7	1652.3	1589.2	1573.5	1507.8	1471.0	1465.8	1518.3	1555.1	1560.3
52.5°	10707.0	4008.5	1597.1	1510.4	1434.3	1444.8	1431.6	1405.4	1457.9	1507.8	1513.1
55°	10528.3	3877.2	1510.4	1434.3	1344.9	1387.0	1392.2	1368.6	1402.7	1436.9	1436.9
57.5°	10541.5	3953.4	1426.4	1363.3	1266.1	1321.3	1350.2	1339.7	1339.7	1366.0	1368.6
60°	10628.2	4063.7	1371.2	1274.0	1187.3	1245.1	1310.8	1300.3	1276.6	1310.8	1310.8
62.5°	10378.6	3916.6	1334.4	1187.3	1103.3	1171.6	1250.4	1245.1	1218.9	1274.0	1279.3
65°	9643.1	3522.6	1292.4	1079.6	1019.2	1098.0	1166.3	1184.7	1161.1	1234.6	1247.7
67.5°	8082.8	2963.1	1211.0	977.2	935.2	1008.7	1074.4	1100.6	1082.3	1168.9	1179.4
70°	6026.0	2398.3	1082.3	864.2	832.7	898.4	958.8	969.3	971.9	1074.4	1084.9
72.5°	3843.1	1865.1	911.5	738.1	714.5	764.4	809.1	851.1	869.5	966.7	964.0
75°	2143.5	1387.0	732.9	625.2	583.2	622.6	675.1	725.0	777.5	919.4	935.2
77.5°	1234.6	974.6	580.5	501.7	451.8	493.8	538.5	609.4	767.0	890.5	874.7
80°	696.1	633.1	438.7	367.8	336.2	367.8	401.9	535.9	604.2	656.7	664.6
82.5°	325.7	354.6	299.5	225.9	225.9	246.9	278.4	415.0	457.1	373.0	325.7
85°	118.2	160.2	147.1	115.6	102.4	99.8	173.4	236.4	147.1	131.3	113.0
87.5°	31.5	44.7	42.0	28.9	15.8	13.1	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)