

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: P642645

Luminaire Tested: GWS-SA6D-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642645  
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-735-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

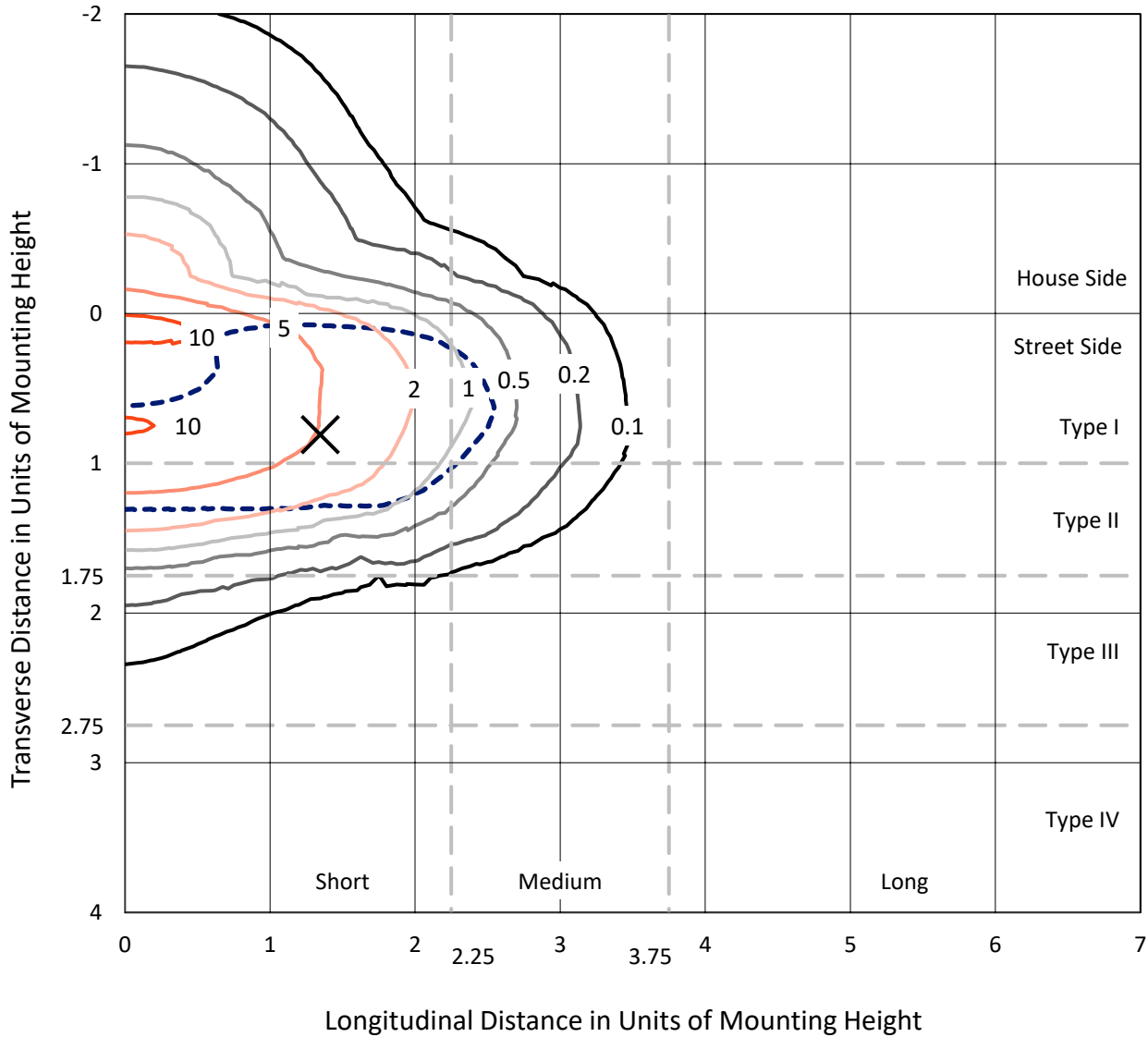
Lumens per Lamp: N/A  
Luminaire Lumens: 35977.8 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

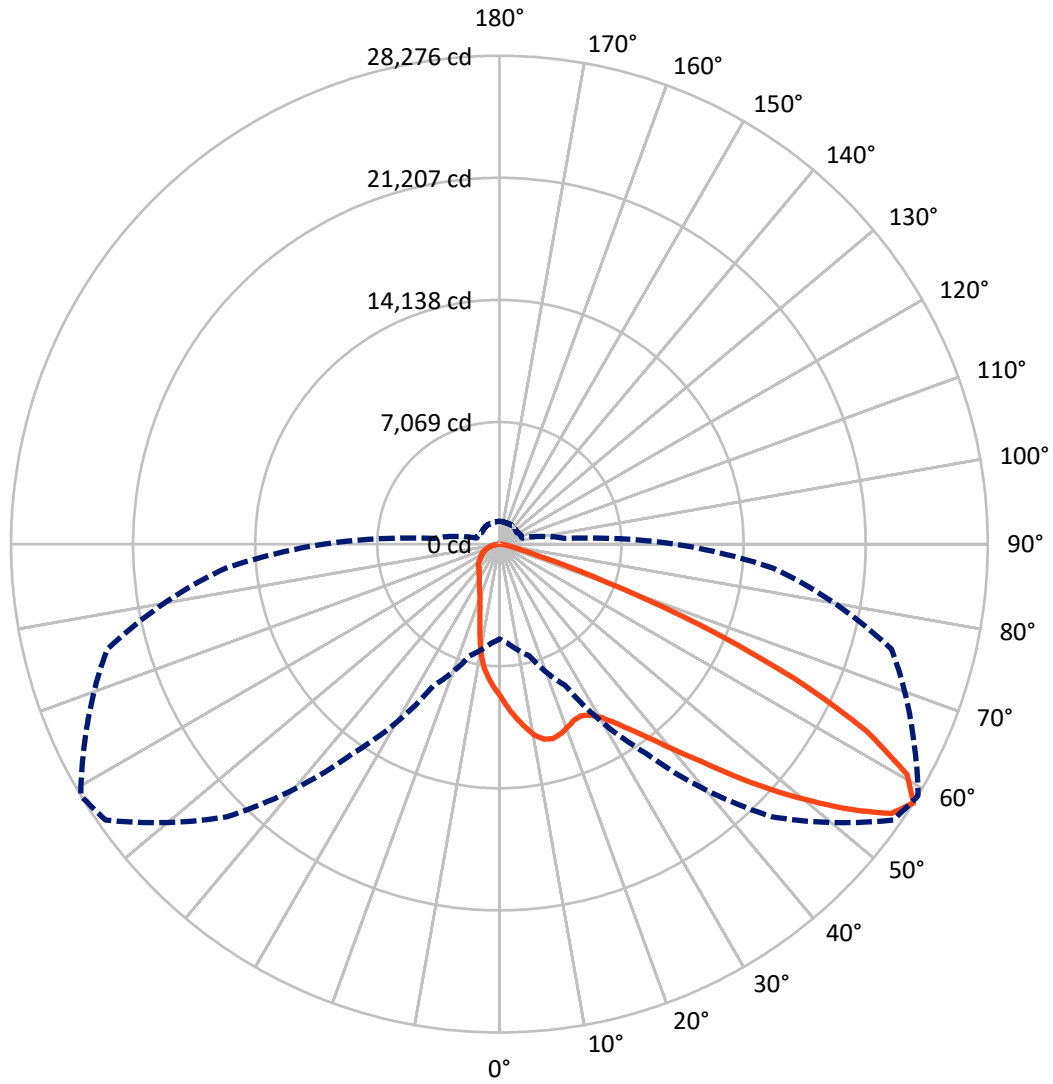
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 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	5583.6	0.0	5583.6
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	30394.2	0.0	30394.2
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	35977.8	0.0	35977.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.1	2.3
10°-20°	2078.0	5.8
20°-30°	3368.5	9.4
30°-40°	5418.6	15.1
40°-50°	8414.6	23.4
50°-60°	9063.7	25.2
60°-70°	5260.2	14.6
70°-80°	1373.2	3.8
80°-90°	180.9	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°	35977.8	100.0
0°-180°	35977.8	100.0

**Coefficient of Utilization**



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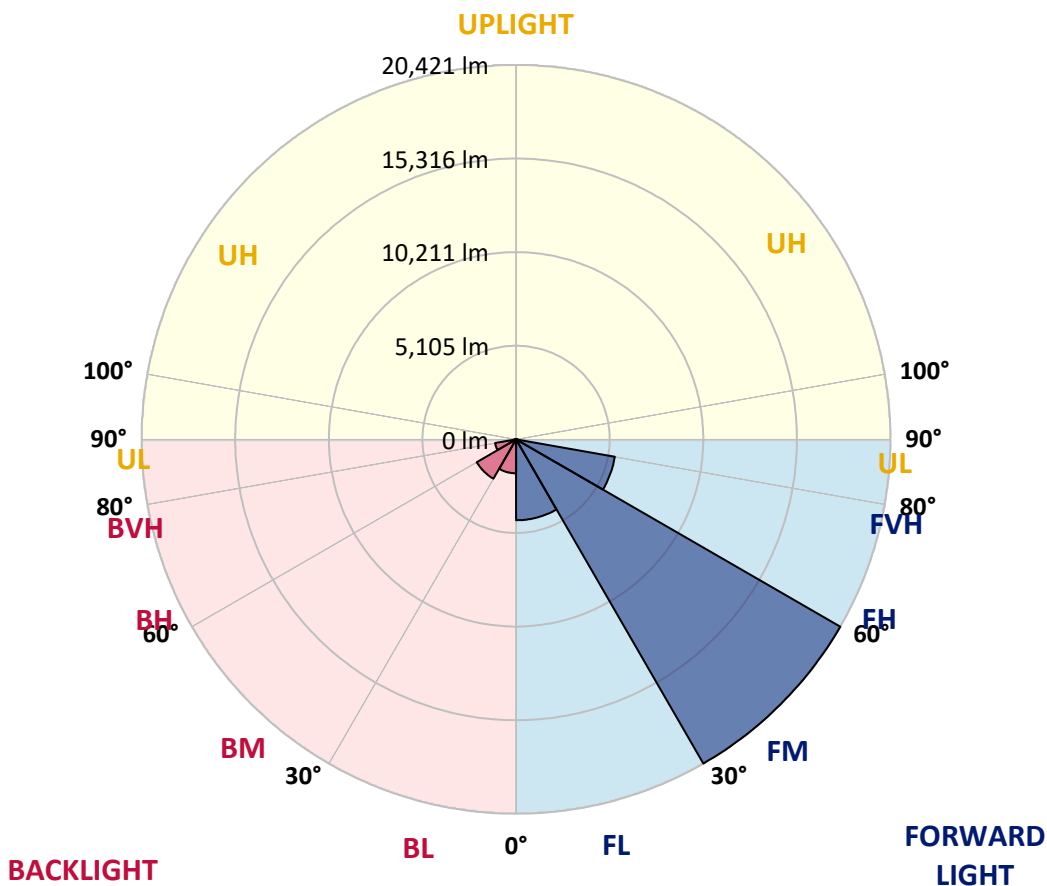
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4414.1	12.3			
FM (30°-60°)	20421.4	56.8			
FH (60°-80°)	5472.1	15.2			G3/7500
FVH (80°-90°)	86.6	0.2			G1/100
BL (0°-30°)	1852.4	5.1	B3/2500		
BM (30°-60°)	2475.5	6.9	B2/2500		
BH (60°-80°)	1161.4	3.2	B3/2500		G3/2500
BVH (80°-90°)	94.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8
2.5°	10017.2	9933.6	9991.8	9888.0	9844.9	9731.0	9584.1	9485.3	9333.3	9135.8	8963.5
5°	11012.6	10954.3	10967.0	10855.5	10756.7	10566.8	10265.4	10098.2	9839.9	9442.2	9072.4
7.5°	10982.2	11050.6	11088.5	11184.8	11212.7	11194.9	10923.9	10690.9	10407.2	9809.5	9252.3
10°	9844.9	9974.1	10090.6	10419.9	10820.1	11326.6	11389.9	11250.6	10964.4	10278.1	9467.6
12.5°	8606.4	8705.2	8809.0	9204.2	9817.1	10830.2	11516.6	11602.7	11488.7	10741.6	9710.7
15°	7998.5	8044.1	8142.9	8403.8	8892.6	10017.2	11296.2	11673.6	11878.8	11232.9	9984.2
17.5°	7973.2	7993.5	8041.6	8180.9	8520.3	9389.0	10898.6	11531.8	12185.2	11752.1	10303.4
20°	8497.5	8444.3	8413.9	8411.4	8578.6	9178.8	10513.6	11303.8	12329.6	12284.0	10645.3
22.5°	9224.4	9242.1	9176.3	9014.2	8993.9	9328.3	10321.1	11073.3	12372.7	12755.1	10961.9
25°	10255.3	10343.9	10148.9	9839.9	9687.9	9761.4	10440.2	11002.4	12367.6	13147.7	11159.5
27.5°	11458.3	11526.7	11329.2	10923.9	10609.8	10432.6	10794.7	11212.7	12410.7	13487.1	11278.5
30°	12828.6	12851.4	12580.4	12154.8	11696.4	11316.5	11384.9	11645.8	12631.0	13932.9	11417.8
32.5°	14502.7	14599.0	14188.7	13515.0	12874.2	12387.9	12177.6	12344.8	13107.2	14459.7	11633.1
35°	16627.8	16660.7	16138.9	15173.9	14267.2	13593.5	13152.8	13241.4	13831.6	15196.7	11957.3
37.5°	18631.2	18664.1	18109.4	17212.8	15916.0	14994.1	14355.8	14315.3	14758.6	16237.7	12486.6
40°	19902.6	19996.4	19748.1	19185.9	17947.3	16703.7	15837.5	15698.2	15974.3	17511.7	13223.7
42.5°	20586.5	20627.0	20622.0	20695.4	19958.4	18722.4	17509.2	17230.6	17415.4	18887.0	13968.3
45°	20591.6	20692.9	20963.9	21670.5	21703.5	20933.5	19621.5	19185.9	19016.2	20272.4	14745.9
47.5°	19669.6	19778.5	20523.2	21913.7	22939.5	23114.2	22151.8	21277.9	20563.7	21465.4	15384.2
50°	16878.5	17152.0	18570.4	21029.7	23182.6	24861.8	24565.5	23380.2	21939.0	22387.3	15784.3
52.5°	14454.6	14444.5	15318.3	18532.4	22167.0	25631.8	26900.7	25543.2	23299.1	22972.4	15885.6
55°	10584.5	10642.8	11536.8	14173.5	19456.9	24887.2	28184.9	27533.9	24859.3	23283.9	15845.1
57.5°	5488.6	5777.3	6694.2	9044.6	14783.9	22324.0	27842.9	28276.0	26444.8	23504.3	15898.3
60°	2773.4	2717.7	3046.9	4318.4	8565.9	17435.7	25735.7	27116.0	26731.0	23676.5	15931.2
62.5°	1851.5	1836.3	1745.1	2000.9	3500.3	10326.2	21939.0	23874.1	24742.8	23271.3	15510.8
65°	1603.3	1572.9	1405.7	1395.6	1699.5	4282.9	16080.7	18768.0	20449.7	21470.4	14505.3
67.5°	1443.7	1398.1	1228.4	1144.8	1220.8	1881.9	9062.3	12588.0	15100.5	18157.6	12301.7
70°	1289.2	1266.4	1096.7	975.1	967.5	1147.4	3338.2	6496.6	9239.6	12387.9	8993.9
72.5°	1155.0	1114.4	970.1	853.5	795.3	813.0	1448.8	2502.4	4781.9	7727.5	5379.6
75°	1000.5	970.1	843.4	726.9	656.0	595.2	883.9	1157.5	2180.7	3672.5	2540.4
77.5°	772.5	752.2	666.1	577.5	537.0	443.2	537.0	729.4	1008.0	1547.5	1322.1
80°	448.3	461.0	496.4	450.8	395.1	316.6	349.5	420.4	605.3	838.4	749.7
82.5°	225.4	240.6	321.7	260.9	235.5	184.9	207.7	248.2	316.6	463.5	293.8
85°	17.7	17.7	58.3	65.9	81.0	65.9	83.6	101.3	144.4	184.9	98.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	12.7	22.8	43.1	27.9
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°	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8	8831.8
2.5°	8847.0	8717.9	8563.4	8436.7	8241.7	8137.8	8006.1	7844.0	7778.2	7747.8	7730.1
5°	8864.8	8636.8	8307.5	8003.6	7666.7	7400.8	7104.5	6795.5	6618.2	6575.1	6544.7
7.5°	8930.6	8611.5	8087.2	7585.7	6960.1	6380.1	5815.3	5255.5	4969.3	4860.4	4850.3
10°	9021.8	8601.3	7864.3	7031.0	5974.8	5058.0	4396.9	3958.7	3773.9	3713.1	3692.8
12.5°	9135.8	8593.7	7570.5	6261.1	4837.6	3971.4	3594.0	3523.1	3548.4	3543.4	3543.4
15°	9280.1	8603.9	7215.9	5389.8	3913.2	3447.1	3454.7	3538.3	3616.8	3629.5	3629.5
17.5°	9437.2	8593.7	6701.8	4516.0	3358.5	3323.0	3439.5	3556.0	3627.0	3637.1	3637.1
20°	9606.9	8545.6	6053.4	3692.8	3115.3	3244.5	3371.1	3462.3	3505.4	3515.5	3515.5
22.5°	9708.2	8408.9	5349.2	3125.5	2960.8	3120.4	3204.0	3297.7	3302.8	3221.7	3219.2
25°	9693.0	8153.0	4546.4	2760.7	2796.2	2935.5	3041.9	2976.0	2895.0	2849.4	2841.8
27.5°	9596.7	7768.1	3728.3	2484.7	2601.2	2758.2	2725.3	2669.6	2649.3	2598.6	2593.6
30°	9475.2	7294.4	2993.8	2269.4	2398.5	2542.9	2492.3	2487.2	2466.9	2411.2	2411.2
32.5°	9358.7	6805.6	2439.1	2109.8	2269.4	2279.5	2350.4	2355.5	2345.4	2249.1	2239.0
35°	9325.7	6316.8	2064.2	1983.2	2142.7	2137.7	2239.0	2236.5	2061.7	1927.5	1924.9
37.5°	9424.5	5820.3	1841.3	1879.3	1968.0	2033.8	2114.9	1968.0	1909.7	1828.7	1823.6
40°	9634.7	5361.9	1727.4	1818.5	1856.5	1952.8	1826.1	1836.3	1821.1	1760.3	1752.7
42.5°	9913.3	4971.9	1664.0	1798.3	1793.2	1818.5	1679.2	1719.8	1742.6	1697.0	1689.4
45°	10181.8	4632.5	1631.1	1722.3	1747.6	1600.7	1572.9	1610.9	1646.3	1628.6	1621.0
47.5°	10379.4	4338.7	1613.4	1618.5	1689.4	1527.3	1481.7	1499.4	1542.5	1550.1	1547.5
50°	10440.2	4087.9	1593.1	1532.3	1517.1	1453.8	1418.4	1413.3	1464.0	1499.4	1504.5
52.5°	10323.6	3865.0	1539.9	1456.4	1382.9	1393.0	1380.4	1355.0	1405.7	1453.8	1458.9
55°	10151.4	3738.4	1456.4	1382.9	1296.8	1337.3	1342.4	1319.6	1352.5	1385.4	1385.4
57.5°	10164.1	3811.8	1375.3	1314.5	1220.8	1274.0	1301.9	1291.7	1291.7	1317.0	1319.6
60°	10247.7	3918.2	1322.1	1228.4	1144.8	1200.5	1263.9	1253.7	1230.9	1263.9	1263.9
62.5°	10007.0	3776.4	1286.7	1144.8	1063.8	1129.6	1205.6	1200.5	1175.2	1228.4	1233.5
65°	9297.9	3396.5	1246.1	1041.0	982.7	1058.7	1124.6	1142.3	1119.5	1190.4	1203.1
67.5°	7793.4	2857.0	1167.6	942.2	901.7	972.6	1035.9	1061.2	1043.5	1127.1	1137.2
70°	5810.2	2312.4	1043.5	833.3	802.9	866.2	924.5	934.6	937.1	1035.9	1046.0
72.5°	3705.5	1798.3	878.9	711.7	688.9	737.0	780.1	820.6	838.4	932.1	929.5
75°	2066.8	1337.3	706.6	602.8	562.3	600.3	650.9	699.0	749.7	886.5	901.7
77.5°	1190.4	939.7	559.7	483.8	435.6	476.2	519.2	587.6	739.6	858.6	843.4
80°	671.2	610.4	423.0	354.6	324.2	354.6	387.5	516.7	582.5	633.2	640.8
82.5°	314.1	341.9	288.7	217.8	217.8	238.1	268.5	400.2	440.7	359.7	314.1
85°	114.0	154.5	141.8	111.4	98.8	96.2	167.2	228.0	141.8	126.6	108.9
87.5°	30.4	43.1	40.5	27.9	15.2	12.7	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)