

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: P643470

Luminaire Tested: GWS-SA6F-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643470
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-SAGF-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37331.9 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

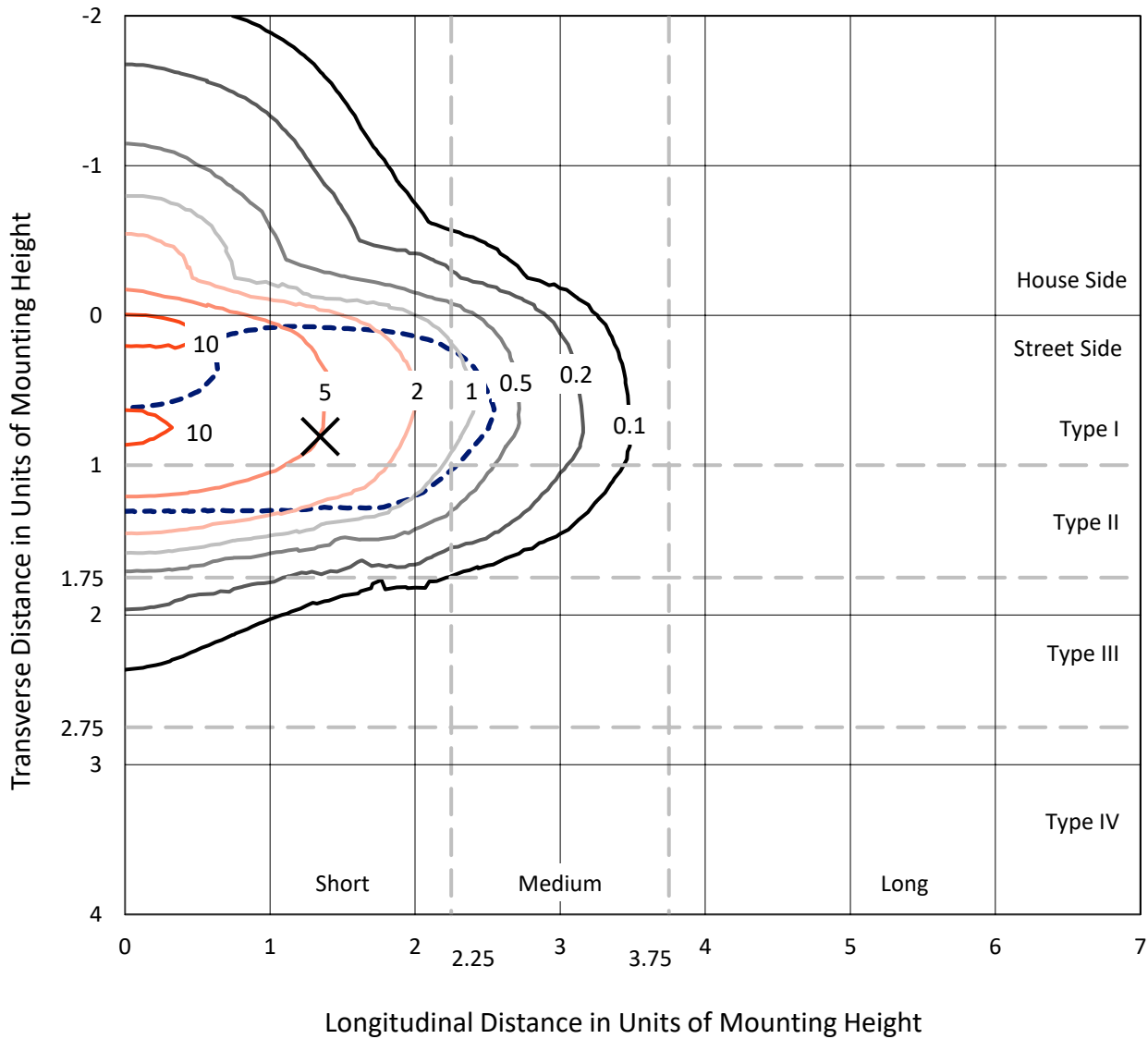
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

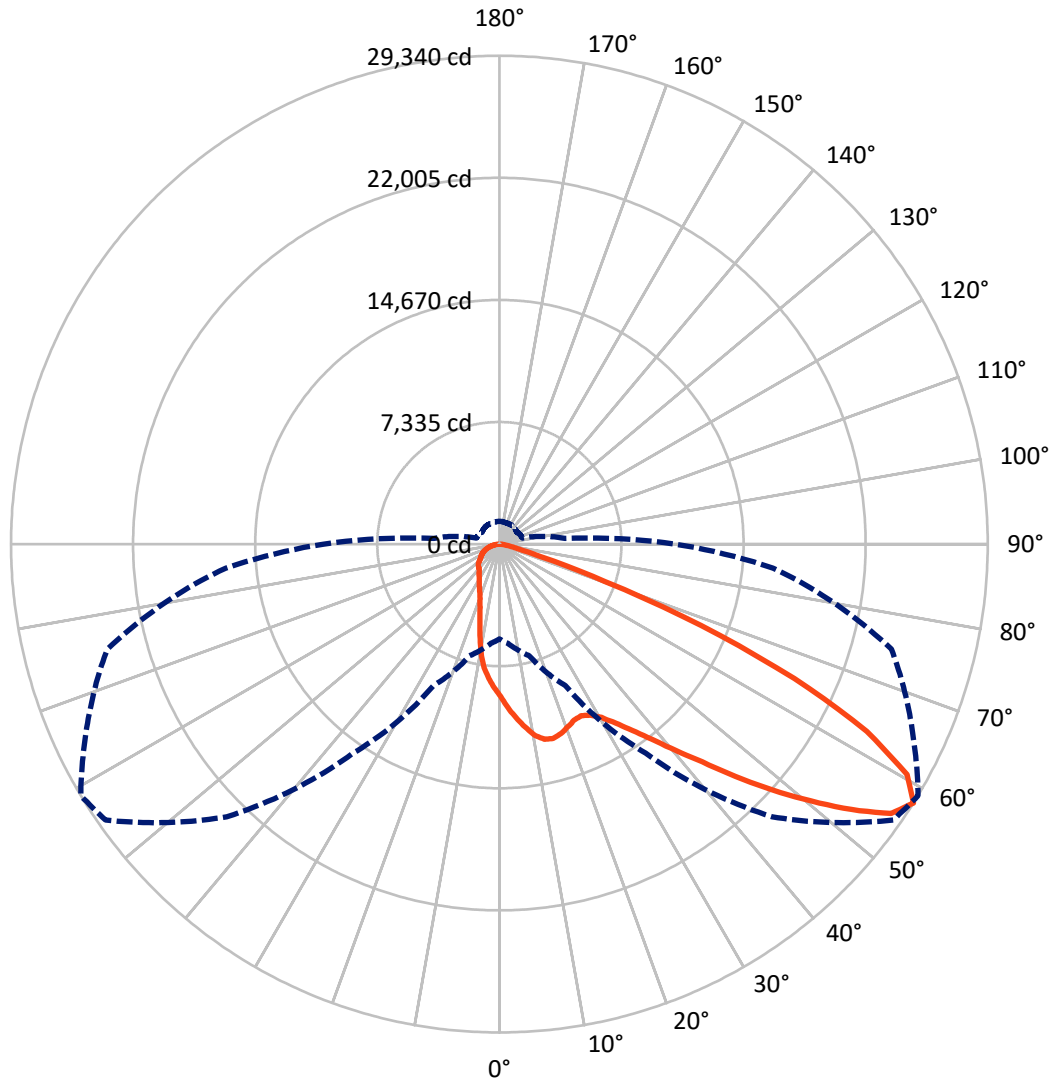
✕ Max cd
 - - - 1/2 Max cd



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

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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
House Side	Lumens	5793.7	0.0	5793.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	31538.2	0.0	31538.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	37331.9	0.0	37331.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.9	2.3
10°-20°	2156.2	5.8
20°-30°	3495.3	9.4
30°-40°	5622.6	15.1
40°-50°	8731.3	23.4
50°-60°	9404.8	25.2
60°-70°	5458.2	14.6
70°-80°	1424.9	3.8
80°-90°	187.7	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°	37331.9	100.0
0°-180°	37331.9	100.0

Coefficient of Utilization



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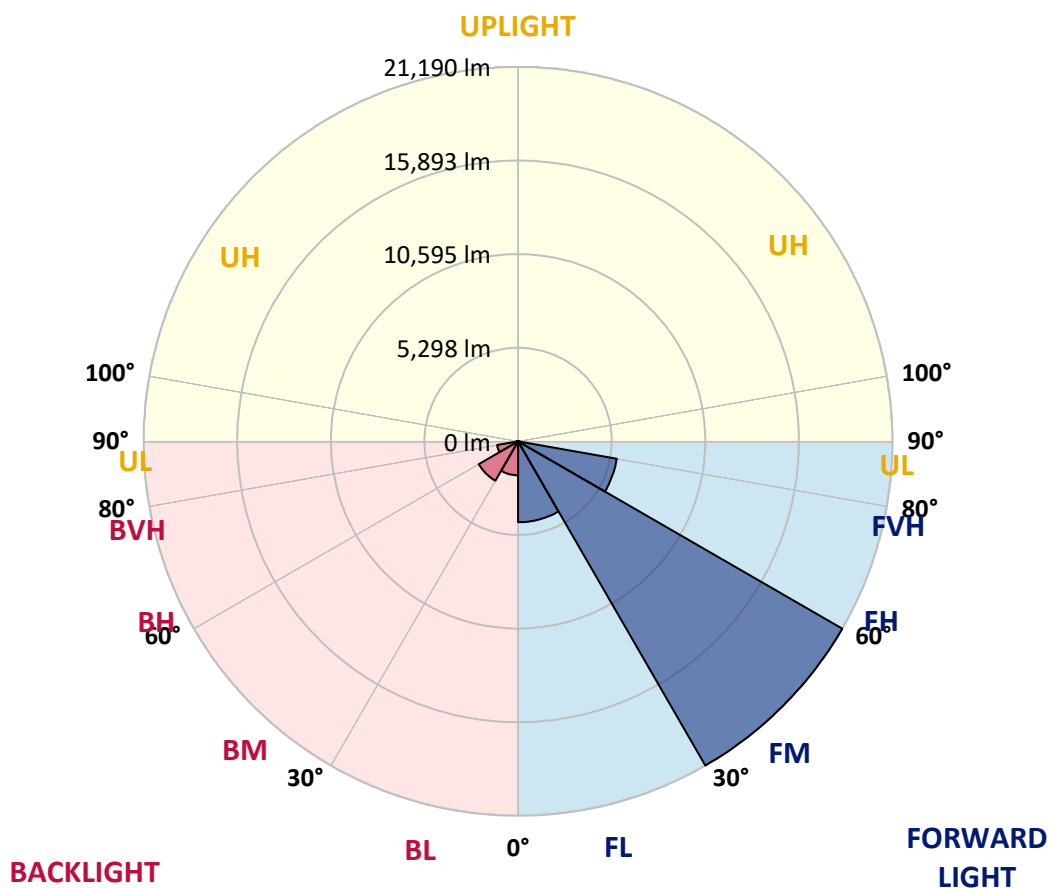
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4580.3	12.3			
FM (30°-60°)	21190.0	56.8			
FH (60°-80°)	5678.0	15.2			G3/7500
FVH (80°-90°)	89.9	0.2			G1/100
BL (0°-30°)	1922.1	5.1	B3/2500		
BM (30°-60°)	2568.7	6.9	B3/5000		
BH (60°-80°)	1205.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2
2.5°	10394.2	10307.5	10367.9	10260.2	10215.5	10097.2	9944.8	9842.3	9684.6	9479.6	9300.9
5°	11427.0	11366.6	11379.7	11264.1	11161.6	10964.5	10651.7	10478.3	10210.2	9797.6	9413.9
7.5°	11395.5	11466.5	11505.9	11605.8	11634.7	11616.3	11335.1	11093.3	10798.9	10178.7	9600.5
10°	10215.5	10349.5	10470.4	10812.1	11227.3	11752.9	11818.6	11674.1	11377.1	10664.9	9823.9
12.5°	8930.3	9032.8	9140.6	9550.6	10186.6	11237.8	11950.0	12039.4	11921.1	11145.8	10076.2
15°	8299.6	8346.9	8449.4	8720.1	9227.3	10394.2	11721.4	12113.0	12325.9	11655.7	10360.0
17.5°	8273.3	8294.3	8344.3	8488.8	8841.0	9742.4	11308.8	11965.8	12643.9	12194.5	10691.2
20°	8817.3	8762.1	8730.6	8728.0	8901.4	9524.3	10909.3	11729.3	12793.7	12746.4	11046.0
22.5°	9571.6	9590.0	9521.7	9353.5	9332.4	9679.3	10709.6	11490.1	12838.3	13235.2	11374.5
25°	10641.2	10733.2	10530.9	10210.2	10052.5	10128.8	10833.1	11416.5	12833.1	13642.5	11579.5
27.5°	11889.6	11960.5	11755.6	11335.1	11009.2	10825.2	11201.0	11634.7	12877.8	13994.7	11703.0
30°	13311.4	13335.1	13053.8	12612.3	12136.6	11742.4	11813.4	12084.1	13106.4	14457.3	11847.5
32.5°	15048.6	15148.5	14722.7	14023.6	13358.7	12854.1	12636.0	12809.4	13600.5	15003.9	12070.9
35°	17253.6	17287.7	16746.3	15745.0	14804.2	14105.1	13647.8	13739.8	14352.1	15768.7	12407.3
37.5°	19332.4	19366.6	18791.0	17860.7	16515.1	15558.4	14896.2	14854.1	15314.0	16848.8	12956.6
40°	20651.7	20749.0	20491.4	19908.0	18622.8	17332.4	16433.6	16289.1	16575.5	18170.8	13721.4
42.5°	21361.3	21403.4	21398.1	21474.3	20709.5	19427.0	18168.2	17879.1	18070.9	19597.8	14494.1
45°	21366.6	21471.7	21752.9	22486.1	22520.3	21721.4	20360.0	19908.0	19731.9	21035.4	15300.9
47.5°	20409.9	20522.9	21295.6	22738.4	23802.8	23984.2	22985.5	22078.8	21337.7	22273.3	15963.2
50°	17513.8	17797.6	19269.3	21821.2	24055.1	25797.6	25490.1	24260.1	22764.7	23229.9	16378.4
52.5°	14998.6	14988.1	15894.8	19229.9	23001.3	26596.5	27913.2	26504.5	24176.0	23837.0	16483.5
55°	10982.9	11043.3	11971.1	14706.9	20189.2	25823.9	29245.7	28570.2	25794.9	24160.3	16441.5
57.5°	5695.1	5994.7	6946.1	9385.0	15340.3	23164.2	28890.9	29340.3	27440.1	24388.9	16496.7
60°	2877.8	2820.0	3161.6	4480.9	8888.3	18091.9	26704.3	28136.6	27737.1	24567.6	16530.8
62.5°	1921.2	1905.4	1810.8	2076.2	3632.1	10714.8	22764.7	24772.6	25674.0	24147.1	16094.6
65°	1663.6	1632.1	1458.6	1448.1	1763.5	4444.1	16685.9	19474.3	21219.4	22278.5	15051.2
67.5°	1498.0	1450.7	1274.6	1187.9	1266.8	1952.7	9403.4	13061.7	15668.8	18841.0	12764.8
70°	1337.7	1314.1	1138.0	1011.8	1003.9	1190.5	3463.9	6741.1	9587.4	12854.1	9332.4
72.5°	1198.4	1156.4	1006.6	885.7	825.2	843.6	1503.3	2596.6	4961.9	8018.4	5582.1
75°	1038.1	1006.6	875.2	754.3	680.7	617.6	917.2	1201.0	2262.8	3810.8	2636.0
77.5°	801.6	780.5	691.2	599.2	557.2	459.9	557.2	756.9	1046.0	1605.8	1371.9
80°	465.2	478.3	515.1	467.8	410.0	328.5	362.7	436.3	628.1	869.9	777.9
82.5°	233.9	249.7	333.8	270.7	244.4	191.9	215.5	257.6	328.5	480.9	304.9
85°	18.4	18.4	60.4	68.3	84.1	68.3	86.7	105.1	149.8	191.9	102.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.9	13.1	23.7	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°	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2	9164.2
2.5°	9180.0	9046.0	8885.7	8754.2	8551.9	8444.1	8307.5	8139.3	8070.9	8039.4	8021.0
5°	9198.4	8961.9	8620.2	8304.8	7955.3	7679.4	7371.9	7051.2	6867.3	6822.6	6791.0
7.5°	9266.7	8935.6	8391.6	7871.2	7222.1	6620.2	6034.2	5453.3	5156.4	5043.4	5032.8
10°	9361.3	8925.1	8160.3	7295.6	6199.7	5248.3	4562.4	4107.7	3915.9	3852.8	3831.8
12.5°	9479.6	8917.2	7855.4	6496.7	5019.7	4120.9	3729.3	3655.7	3682.0	3676.7	3676.7
15°	9629.4	8927.7	7487.5	5592.6	4060.4	3576.9	3584.7	3671.5	3752.9	3766.1	3766.1
17.5°	9792.4	8917.2	6954.0	4685.9	3484.9	3448.1	3569.0	3689.9	3763.5	3774.0	3774.0
20°	9968.4	8867.3	6281.2	3831.8	3232.6	3366.6	3498.0	3592.6	3637.3	3647.8	3647.8
22.5°	10073.6	8725.3	5550.6	3243.1	3072.3	3237.8	3324.6	3421.8	3427.1	3343.0	3340.3
25°	10057.8	8459.9	4717.5	2864.6	2901.4	3046.0	3156.4	3088.0	3003.9	2956.6	2948.7
27.5°	9957.9	8060.4	3868.6	2578.2	2699.1	2862.0	2827.9	2770.0	2749.0	2696.4	2691.2
30°	9831.8	7569.0	3106.4	2354.8	2488.8	2638.6	2586.1	2580.8	2559.8	2502.0	2502.0
32.5°	9710.9	7061.7	2530.9	2189.2	2354.8	2365.3	2438.9	2444.1	2433.6	2333.8	2323.3
35°	9676.7	6554.5	2141.9	2057.8	2223.4	2218.1	2323.3	2320.6	2139.3	2000.0	1997.4
37.5°	9779.2	6039.4	1910.6	1950.1	2042.0	2110.4	2194.5	2042.0	1981.6	1897.5	1892.2
40°	9997.3	5563.7	1792.4	1887.0	1926.4	2026.3	1894.9	1905.4	1889.6	1826.5	1818.7
42.5°	10286.4	5159.0	1726.7	1866.0	1860.7	1887.0	1742.4	1784.5	1808.1	1760.8	1753.0
45°	10565.0	4806.8	1692.5	1787.1	1813.4	1661.0	1632.1	1671.5	1708.3	1689.9	1682.0
47.5°	10770.0	4502.0	1674.1	1679.4	1753.0	1584.8	1537.4	1555.8	1600.5	1608.4	1605.8
50°	10833.1	4241.8	1653.1	1590.0	1574.2	1508.5	1471.7	1466.5	1519.1	1555.8	1561.1
52.5°	10712.2	4010.5	1597.9	1511.2	1435.0	1445.5	1432.3	1406.0	1458.6	1508.5	1513.8
55°	10533.5	3879.1	1511.2	1435.0	1345.6	1387.6	1392.9	1369.2	1403.4	1437.6	1437.6
57.5°	10546.6	3955.3	1427.1	1364.0	1266.8	1321.9	1350.9	1340.3	1340.3	1366.6	1369.2
60°	10633.4	4065.7	1371.9	1274.6	1187.9	1245.7	1311.4	1300.9	1277.3	1311.4	1311.4
62.5°	10383.7	3918.5	1335.1	1187.9	1103.8	1172.1	1251.0	1245.7	1219.4	1274.6	1279.9
65°	9647.8	3524.3	1293.0	1080.2	1019.7	1098.6	1166.9	1185.3	1161.6	1235.2	1248.4
67.5°	8086.7	2964.5	1211.6	977.7	935.6	1009.2	1074.9	1101.2	1082.8	1169.5	1180.0
70°	6028.9	2399.5	1082.8	864.6	833.1	898.8	959.3	969.8	972.4	1074.9	1085.4
72.5°	3844.9	1866.0	912.0	738.5	714.8	764.8	809.5	851.5	869.9	967.1	964.5
75°	2144.5	1387.6	733.2	625.5	583.4	622.9	675.4	725.4	777.9	919.8	935.6
77.5°	1235.2	975.0	580.8	502.0	452.0	494.1	538.8	609.7	767.4	890.9	875.2
80°	696.5	633.4	438.9	367.9	336.4	367.9	402.1	536.1	604.5	657.0	664.9
82.5°	325.9	354.8	299.6	226.0	226.0	247.0	278.6	415.2	457.3	373.2	325.9
85°	118.3	160.3	147.2	115.6	102.5	99.9	173.5	236.5	147.2	131.4	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)