

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: P640280

Luminaire Tested: GWS-SA5D-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640280
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-SA5D-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31292.2 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

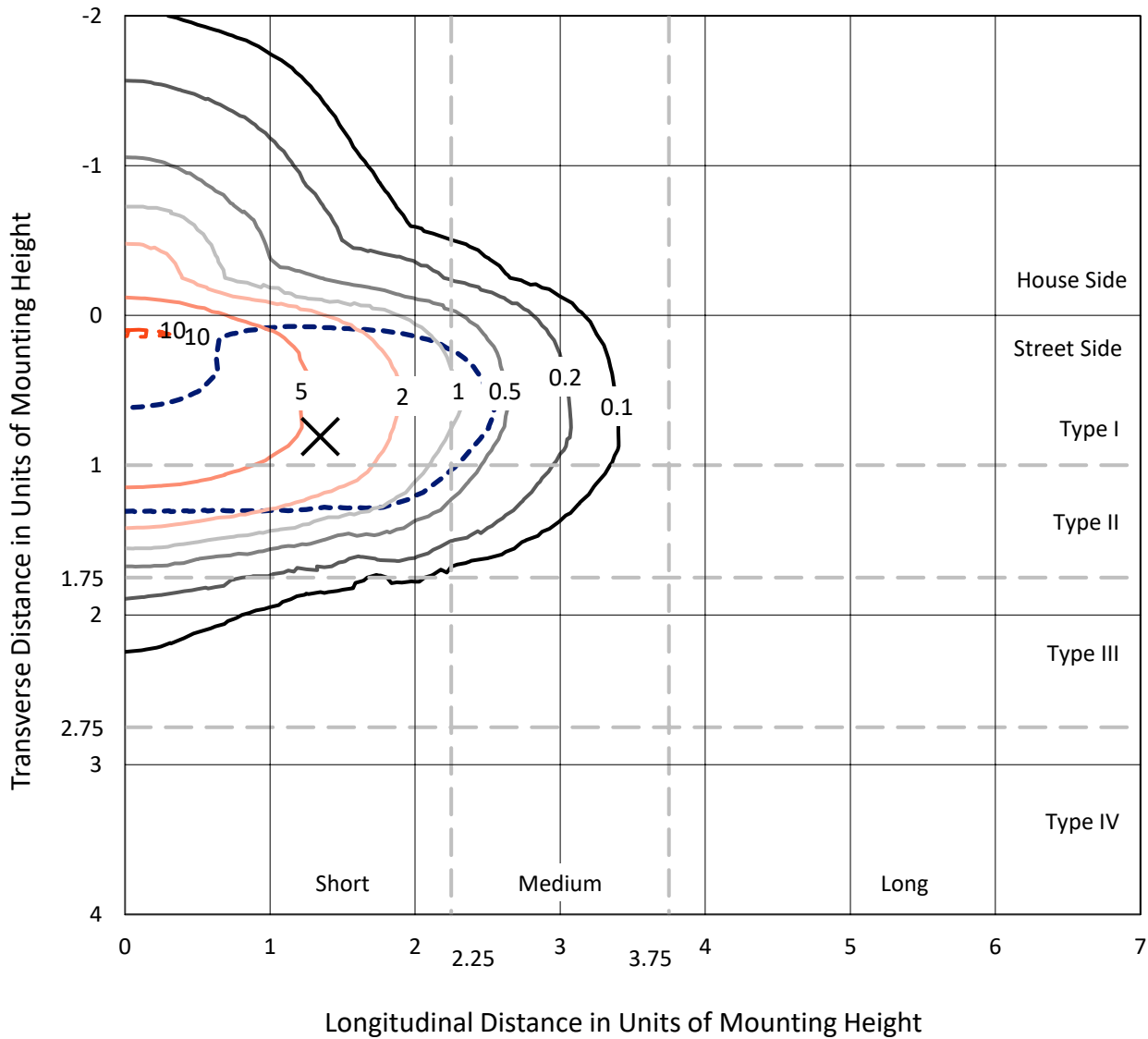
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

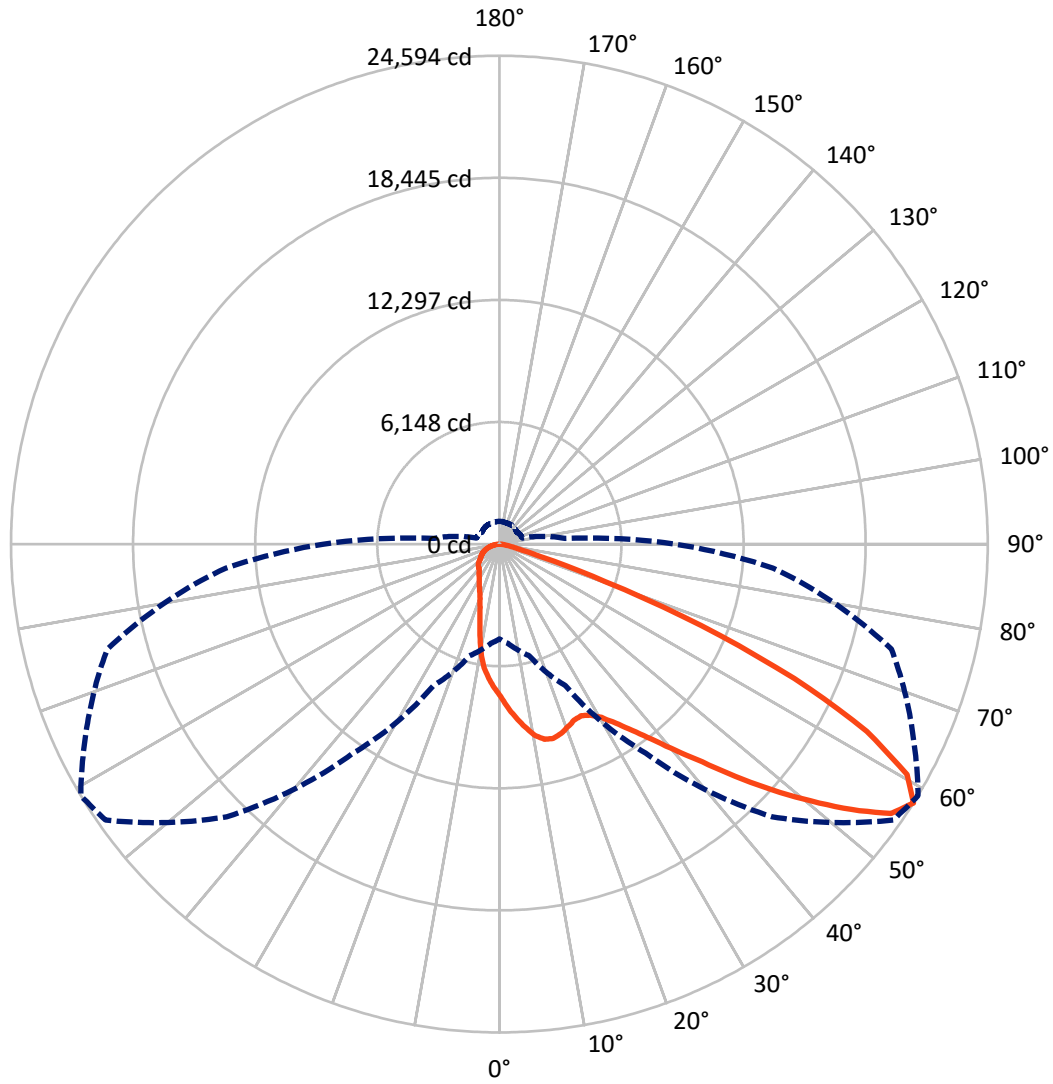
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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	4856.4	0.0	4856.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	26435.8	0.0	26435.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	31292.2	0.0	31292.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.3	2.3
10°-20°	1807.4	5.8
20°-30°	2929.8	9.4
30°-40°	4712.9	15.1
40°-50°	7318.7	23.4
50°-60°	7883.3	25.2
60°-70°	4575.1	14.6
70°-80°	1194.4	3.8
80°-90°	157.3	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°	31292.2	100.0
0°-180°	31292.2	100.0

Coefficient of Utilization



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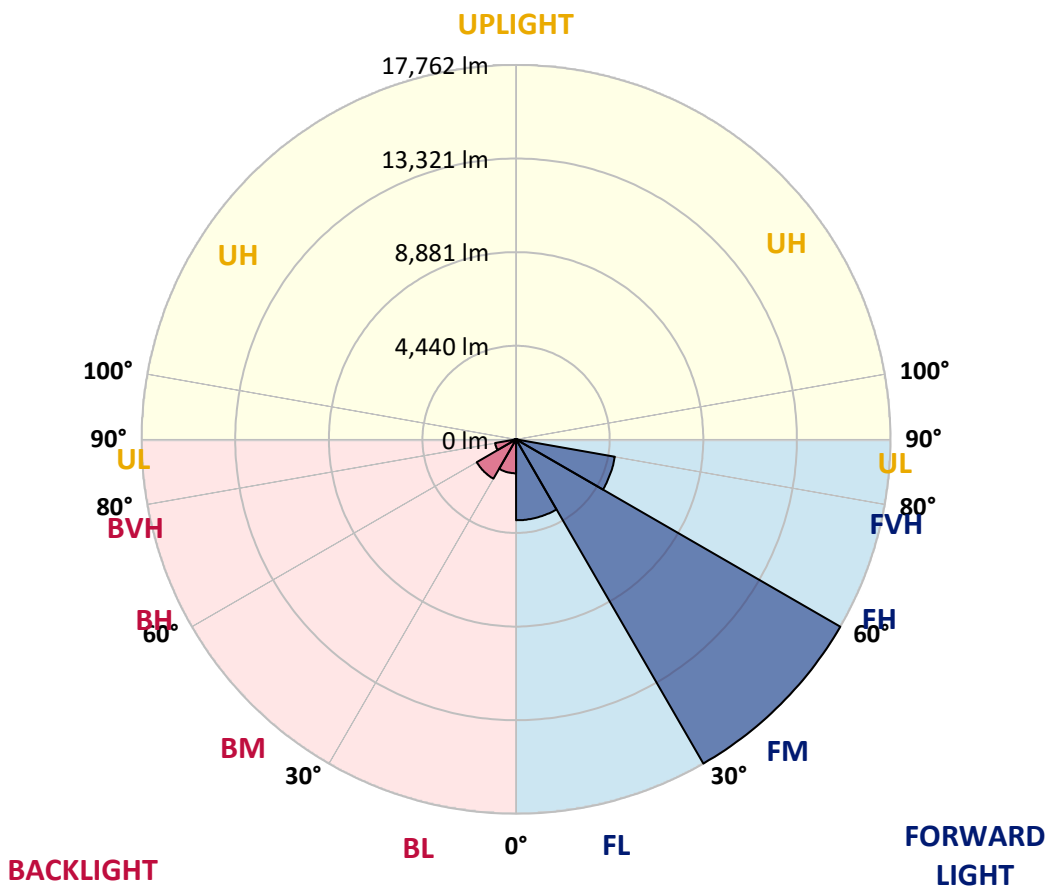
CATALOG NUMBER: GWS-SA5D-750-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3839.3	12.3			
FM (30°-60°)	17761.8	56.8			
FH (60°-80°)	4759.4	15.2			G2/5000
FVH (80°-90°)	75.3	0.2			G1/100
BL (0°-30°)	1611.2	5.1	B3/2500		
BM (30°-60°)	2153.1	6.9	B2/2500		
BH (60°-80°)	1010.1	3.2	B3/2500		G3/2500
BVH (80°-90°)	82.0	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°	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6
2.5°	8712.6	8639.9	8690.6	8600.2	8562.8	8463.6	8335.9	8250.0	8117.8	7946.0	7796.2
5°	9578.3	9527.7	9538.7	9441.7	9355.8	9190.6	8928.5	8783.1	8558.4	8212.5	7890.9
7.5°	9551.9	9611.4	9644.4	9728.1	9752.4	9736.9	9501.2	9298.6	9051.8	8531.9	8047.3
10°	8562.8	8675.1	8776.5	9062.8	9410.9	9851.5	9906.6	9785.4	9536.5	8939.5	8234.5
12.5°	7485.5	7571.5	7661.8	8005.4	8538.5	9419.7	10016.7	10091.6	9992.5	9342.6	8446.0
15°	6956.8	6996.5	7082.4	7309.3	7734.5	8712.6	9825.1	10153.3	10331.7	9770.0	8683.9
17.5°	6934.8	6952.4	6994.3	7115.5	7410.6	8166.3	9479.2	10029.9	10598.3	10221.6	8961.5
20°	7390.8	7344.6	7318.1	7315.9	7461.3	7983.4	9144.4	9831.7	10723.9	10684.2	9258.9
22.5°	8023.1	8038.5	7981.2	7840.2	7822.6	8113.4	8976.9	9631.2	10761.3	11093.9	9534.3
25°	8919.7	8996.8	8827.1	8558.4	8426.2	8490.1	9080.5	9569.5	10756.9	11435.4	9706.1
27.5°	9966.0	10025.5	9853.7	9501.2	9228.1	9073.9	9388.9	9752.4	10794.3	11730.6	9809.6
30°	11157.8	11177.7	10941.9	10571.9	10173.1	9842.7	9902.2	10129.1	10986.0	12118.3	9930.8
32.5°	12614.0	12697.7	12340.8	11754.8	11197.5	10774.5	10591.7	10737.1	11400.2	12576.5	10118.0
35°	14462.2	14490.9	14037.1	13197.7	12409.1	11823.1	11439.8	11516.9	12030.2	13217.6	10400.0
37.5°	16204.7	16233.4	15750.9	14971.1	13843.2	13041.3	12486.2	12450.9	12836.5	14123.0	10860.4
40°	17310.6	17392.1	17176.2	16687.2	15609.9	14528.3	13774.9	13653.7	13893.9	15231.0	11501.5
42.5°	17905.4	17940.6	17936.2	18000.1	17359.1	16284.0	15228.8	14986.5	15147.3	16427.2	12149.1
45°	17909.8	17997.9	18233.6	18848.3	18876.9	18207.2	17066.1	16687.2	16539.6	17632.2	12825.4
47.5°	17107.9	17202.7	17850.3	19059.7	19951.9	20103.9	19266.8	18506.8	17885.6	18669.8	13380.6
50°	14680.3	14918.2	16151.9	18290.9	20163.4	21623.9	21366.2	20335.2	19081.8	19471.7	13728.6
52.5°	12572.1	12563.3	13323.3	16118.8	19280.0	22293.6	23397.3	22216.5	20264.7	19980.6	13816.8
55°	9206.0	9256.7	10034.3	12327.6	16922.9	21646.0	24514.2	23948.0	21621.7	20251.5	13781.5
57.5°	4773.7	5024.9	5822.3	7866.7	12858.5	19416.6	24216.8	24593.5	23000.8	20443.2	13827.8
60°	2412.2	2363.7	2650.1	3756.0	7450.3	15165.0	22383.9	23584.5	23249.7	20593.0	13856.4
62.5°	1610.3	1597.1	1517.8	1740.3	3044.4	8981.3	19081.8	20764.8	21520.4	20240.5	13490.7
65°	1394.5	1368.0	1222.6	1213.8	1478.2	3725.2	13986.4	16323.7	17786.4	18674.2	12616.2
67.5°	1255.7	1216.0	1068.4	995.7	1061.8	1636.8	7882.1	10948.6	13133.9	15792.8	10699.6
70°	1121.3	1101.5	953.9	848.1	841.5	997.9	2903.5	5650.5	8036.3	10774.5	7822.6
72.5°	1004.5	969.3	843.7	742.4	691.7	707.1	1260.1	2176.5	4159.1	6721.1	4679.0
75°	870.2	843.7	733.6	632.2	570.6	517.7	768.8	1006.7	1896.7	3194.2	2209.5
77.5°	671.9	654.3	579.4	502.3	467.0	385.5	467.0	634.4	876.8	1346.0	1149.9
80°	389.9	400.9	431.8	392.1	343.7	275.4	304.0	365.7	526.5	729.2	652.1
82.5°	196.1	209.3	279.8	226.9	204.9	160.8	180.6	215.9	275.4	403.1	255.5
85°	15.4	15.4	50.7	57.3	70.5	57.3	72.7	88.1	125.6	160.8	85.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	11.0	19.8	37.4	24.2
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°	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6	7681.6
2.5°	7694.8	7582.5	7448.1	7338.0	7168.3	7078.0	6963.5	6822.5	6765.2	6738.8	6723.3
5°	7710.2	7512.0	7225.6	6961.3	6668.3	6437.0	6179.2	5910.5	5756.3	5718.8	5692.4
7.5°	7767.5	7490.0	7033.9	6597.8	6053.6	5549.2	5057.9	4571.1	4322.1	4227.4	4218.6
10°	7846.8	7481.1	6840.1	6115.3	5196.7	4399.2	3824.3	3443.2	3282.4	3229.5	3211.9
12.5°	7946.0	7474.5	6584.6	5445.6	4207.6	3454.2	3126.0	3064.3	3086.3	3081.9	3081.9
15°	8071.5	7483.3	6276.1	4687.8	3403.5	2998.2	3004.8	3077.5	3145.8	3156.8	3156.8
17.5°	8208.1	7474.5	5828.9	3927.8	2921.1	2890.2	2991.6	3092.9	3154.6	3163.4	3163.4
20°	8355.7	7432.7	5265.0	3211.9	2709.6	2822.0	2932.1	3011.4	3048.9	3057.7	3057.7
22.5°	8443.8	7313.7	4652.6	2718.4	2575.2	2714.0	2786.7	2868.2	2872.6	2802.1	2799.9
25°	8430.6	7091.2	3954.3	2401.2	2432.0	2553.2	2645.7	2588.4	2517.9	2478.3	2471.7
27.5°	8346.9	6756.4	3242.7	2161.1	2262.4	2399.0	2370.4	2321.9	2304.3	2260.2	2255.8
30°	8241.2	6344.4	2603.9	1973.8	2086.2	2211.7	2167.7	2163.3	2145.7	2097.2	2097.2
32.5°	8139.8	5919.3	2121.4	1835.0	1973.8	1982.6	2044.3	2048.7	2039.9	1956.2	1947.4
35°	8111.2	5494.1	1795.4	1724.9	1863.7	1859.3	1947.4	1945.2	1793.2	1676.4	1674.2
37.5°	8197.1	5062.3	1601.5	1634.6	1711.7	1769.0	1839.4	1711.7	1661.0	1590.5	1586.1
40°	8379.9	4663.6	1502.4	1581.7	1614.7	1698.5	1588.3	1597.1	1583.9	1531.0	1524.4
42.5°	8622.3	4324.3	1447.3	1564.1	1559.7	1581.7	1460.5	1495.8	1515.6	1476.0	1469.4
45°	8855.8	4029.2	1418.7	1498.0	1520.0	1392.3	1368.0	1401.1	1431.9	1416.5	1409.9
47.5°	9027.6	3773.6	1403.3	1407.7	1469.4	1328.4	1288.7	1304.1	1341.6	1348.2	1346.0
50°	9080.5	3555.5	1385.6	1332.8	1319.6	1264.5	1233.6	1229.2	1273.3	1304.1	1308.5
52.5°	8979.1	3361.7	1339.4	1266.7	1202.8	1211.6	1200.6	1178.6	1222.6	1264.5	1268.9
55°	8829.3	3251.5	1266.7	1202.8	1127.9	1163.1	1167.6	1147.7	1176.4	1205.0	1205.0
57.5°	8840.3	3315.4	1196.2	1143.3	1061.8	1108.1	1132.3	1123.5	1123.5	1145.5	1147.7
60°	8913.0	3407.9	1149.9	1068.4	995.7	1044.2	1099.3	1090.4	1070.6	1099.3	1099.3
62.5°	8703.8	3284.6	1119.1	995.7	925.2	982.5	1048.6	1044.2	1022.2	1068.4	1072.8
65°	8086.9	2954.1	1083.8	905.4	854.7	920.8	978.1	993.5	973.7	1035.4	1046.4
67.5°	6778.4	2484.9	1015.5	819.5	784.2	845.9	901.0	923.0	907.6	980.3	989.1
70°	5053.5	2011.3	907.6	724.8	698.3	753.4	804.1	812.9	815.1	901.0	909.8
72.5°	3222.9	1564.1	764.4	619.0	599.2	641.1	678.5	713.7	729.2	810.7	808.5
75°	1797.6	1163.1	614.6	524.3	489.0	522.1	566.2	608.0	652.1	771.0	784.2
77.5°	1035.4	817.3	486.8	420.8	378.9	414.2	451.6	511.1	643.3	746.8	733.6
80°	583.8	530.9	367.9	308.4	282.0	308.4	337.0	449.4	506.7	550.7	557.3
82.5°	273.2	297.4	251.1	189.5	189.5	207.1	233.5	348.1	383.3	312.8	273.2
85°	99.1	134.4	123.4	96.9	85.9	83.7	145.4	198.3	123.4	110.1	94.7
87.5°	26.4	37.4	35.2	24.2	13.2	11.0	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)