

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: P638300

Luminaire Tested: GWS-SA4E-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638300
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-SA4E-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31877.3 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

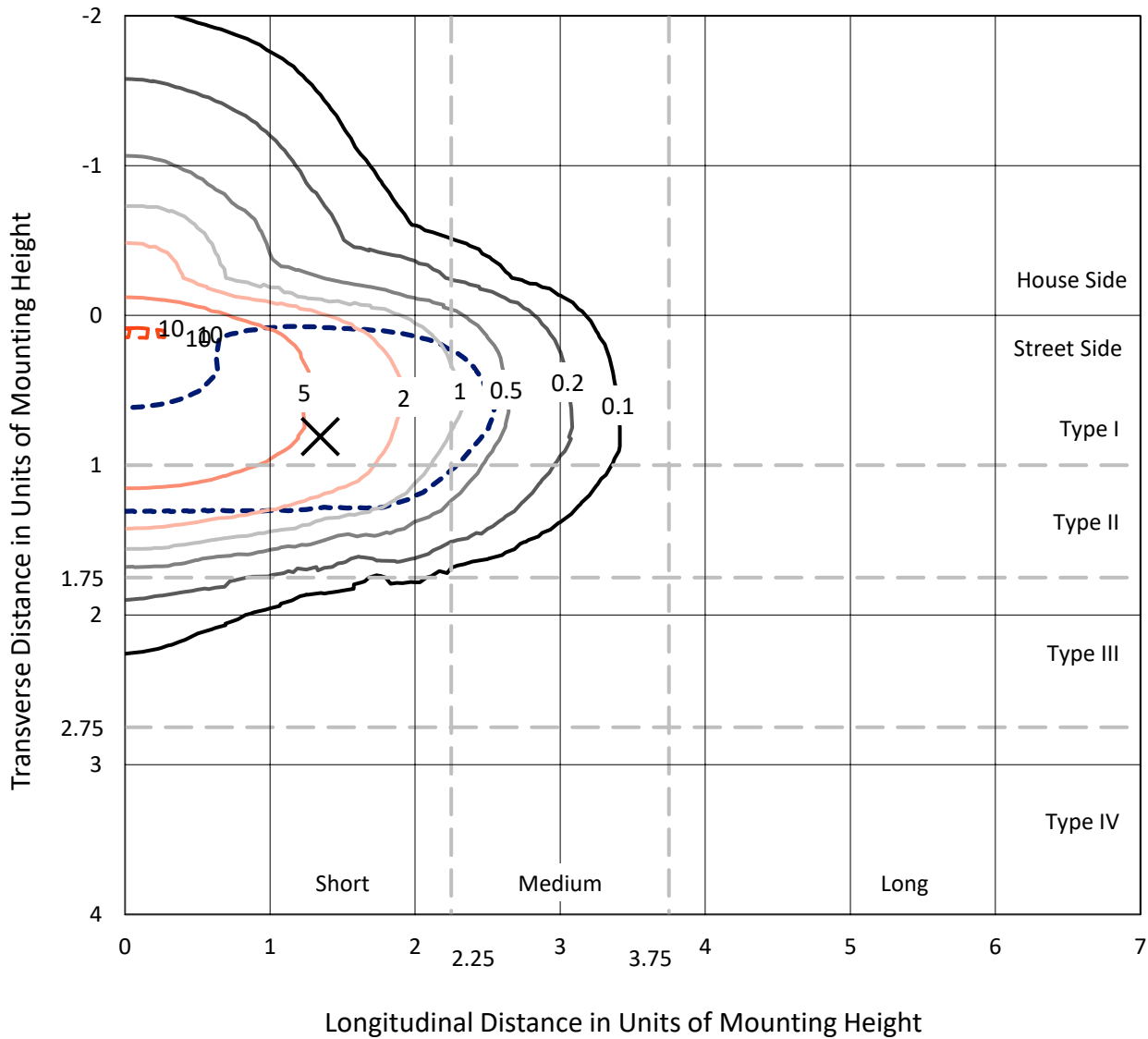
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

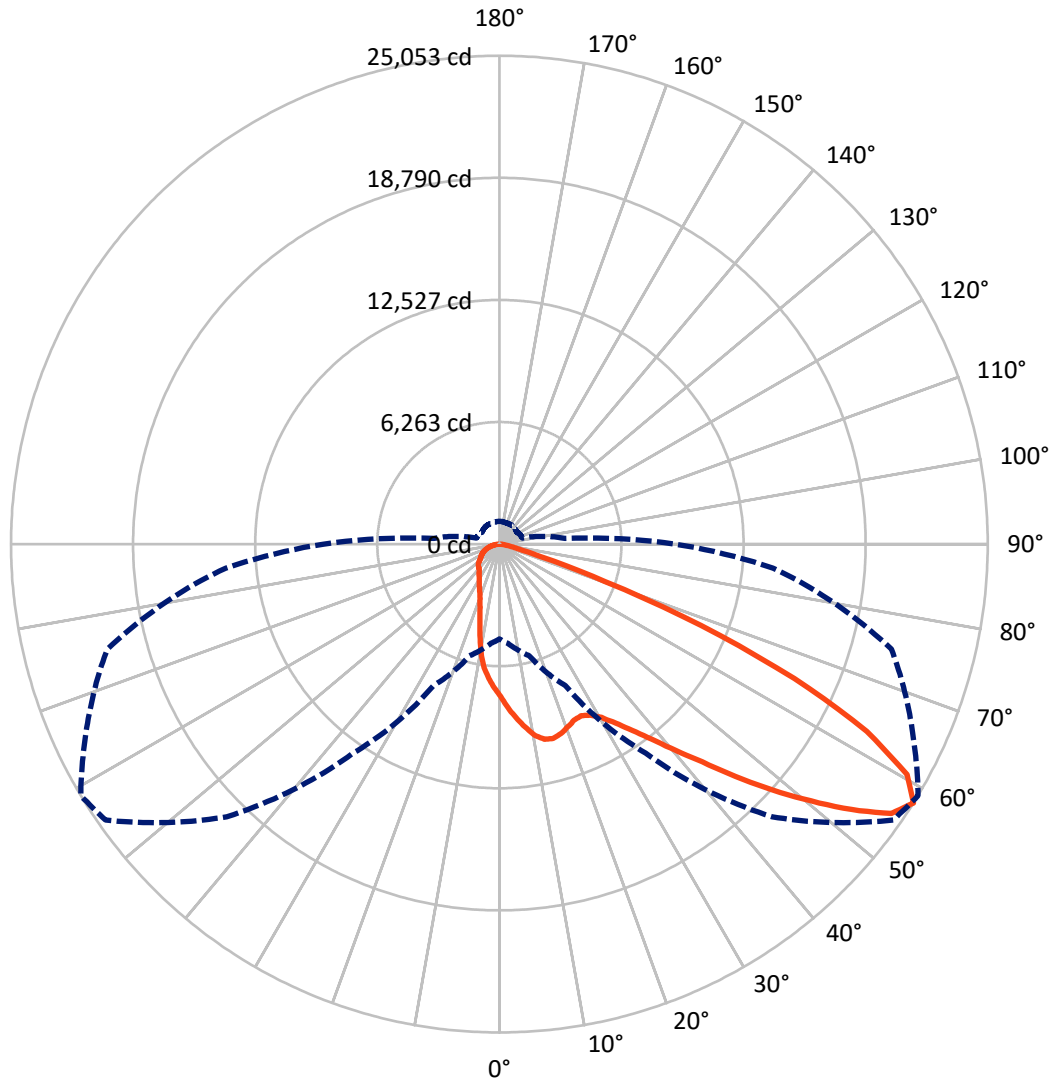
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 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
House Side	Lumens	4947.2	0.0	4947.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	26930.1	0.0	26930.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	31877.3	0.0	31877.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.6	2.3
10°-20°	1841.2	5.8
20°-30°	2984.6	9.4
30°-40°	4801.1	15.1
40°-50°	7455.6	23.4
50°-60°	8030.7	25.2
60°-70°	4660.7	14.6
70°-80°	1216.7	3.8
80°-90°	160.3	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°	31877.3	100.0
0°-180°	31877.3	100.0

Coefficient of Utilization



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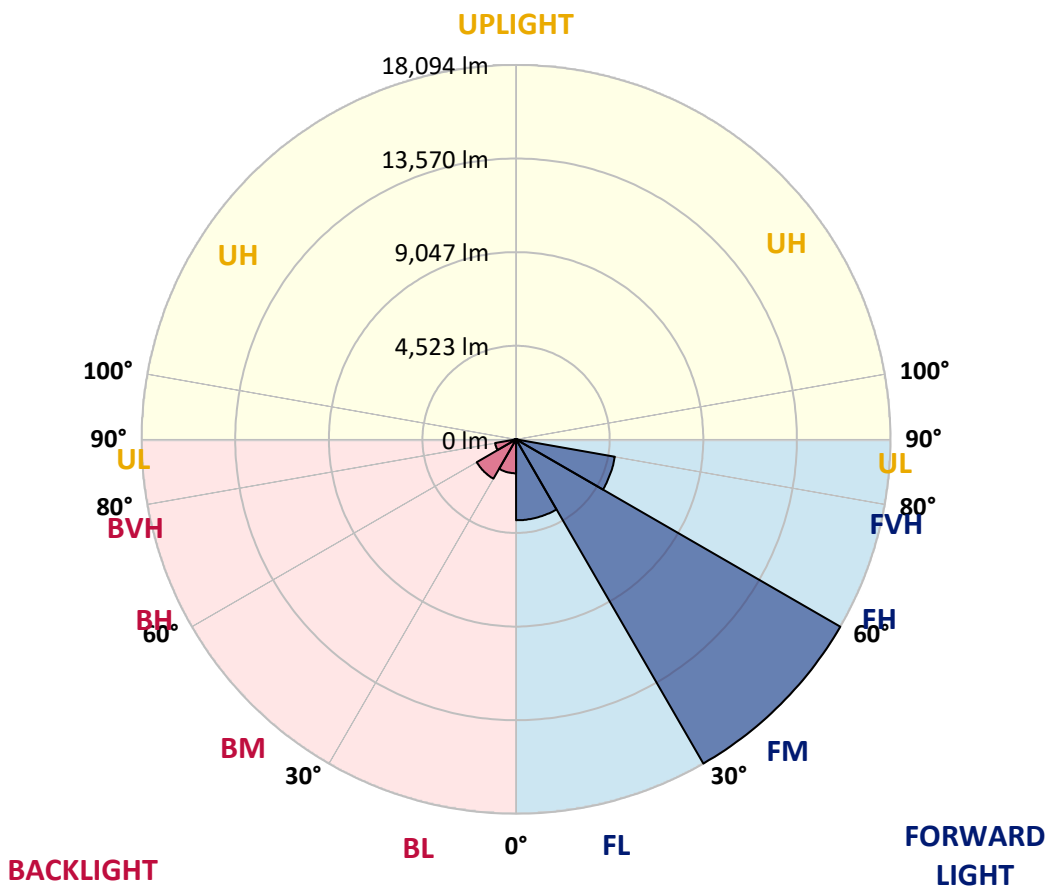
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3911.0	12.3			
FM (30°-60°)	18093.9	56.8			
FH (60°-80°)	4848.4	15.2			G2/5000
FVH (80°-90°)	76.7	0.2			G1/100
BL (0°-30°)	1641.3	5.1	B3/2500		
BM (30°-60°)	2193.4	6.9	B2/2500		
BH (60°-80°)	1029.0	3.2	B3/2500		G3/2500
BVH (80°-90°)	83.5	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°	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2
2.5°	8875.5	8801.4	8853.0	8761.0	8722.9	8621.9	8491.7	8404.2	8269.6	8094.5	7941.9
5°	9757.4	9705.8	9717.0	9618.3	9530.8	9362.5	9095.4	8947.3	8718.4	8366.1	8038.4
7.5°	9730.5	9791.1	9824.7	9910.0	9934.7	9919.0	9678.9	9472.4	9221.1	8691.5	8197.8
10°	8722.9	8837.3	8940.6	9232.3	9586.9	10035.7	10091.8	9968.4	9714.8	9106.6	8388.5
12.5°	7625.5	7713.0	7805.0	8155.1	8698.2	9595.8	10204.0	10280.3	10179.3	9517.3	8603.9
15°	7086.9	7127.3	7214.8	7446.0	7879.1	8875.5	10008.8	10343.1	10524.9	9952.7	8846.3
17.5°	7064.5	7082.4	7125.1	7248.5	7549.2	8318.9	9656.4	10217.5	10796.5	10412.7	9129.1
20°	7529.0	7481.9	7455.0	7452.7	7600.8	8132.7	9315.3	10015.5	10924.4	10884.0	9432.0
22.5°	8173.1	8188.8	8130.4	7986.8	7968.9	8265.1	9144.8	9811.3	10962.5	11301.4	9712.5
25°	9086.4	9165.0	8992.2	8718.4	8583.8	8648.8	9250.3	9748.4	10958.0	11649.2	9887.6
27.5°	10152.4	10213.0	10037.9	9678.9	9400.6	9243.5	9564.4	9934.7	10996.2	11949.9	9993.1
30°	11366.5	11386.7	11146.5	10769.5	10363.3	10026.7	10087.3	10318.5	11191.4	12344.9	10116.5
32.5°	12849.8	12935.1	12571.5	11974.6	11406.9	10976.0	10789.7	10937.8	11613.3	12811.7	10307.2
35°	14732.6	14761.8	14299.5	13444.5	12641.1	12044.2	11653.7	11732.2	12255.1	13464.7	10594.5
37.5°	16507.7	16536.9	16045.4	15251.0	14102.0	13285.2	12719.7	12683.8	13076.5	14387.0	11063.5
40°	17634.3	17717.3	17497.4	16999.2	15901.8	14800.0	14032.5	13909.0	14153.7	15515.8	11716.5
42.5°	18240.2	18276.1	18271.6	18336.7	17683.7	16588.5	15513.6	15266.7	15430.6	16734.4	12376.3
45°	18244.7	18334.4	18574.6	19200.7	19229.8	18547.6	17385.2	16999.2	16848.8	17961.9	13065.3
47.5°	17427.8	17524.3	18184.1	19416.1	20325.0	20479.8	19627.1	18852.8	18220.0	19018.9	13630.8
50°	14954.8	15197.2	16453.9	18632.9	20540.4	22028.3	21765.7	20715.5	19438.6	19835.8	13985.3
52.5°	12807.2	12798.2	13572.4	16420.2	19640.5	22710.5	23834.8	22631.9	20643.6	20354.2	14075.1
55°	9378.2	9429.8	10222.0	12558.1	17239.3	22050.7	24972.5	24395.8	22026.0	20630.2	14039.2
57.5°	4863.0	5118.8	5931.2	8013.7	13098.9	19779.7	24669.6	25053.3	23430.8	20825.4	14086.3
60°	2457.3	2407.9	2699.7	3826.2	7589.6	15448.5	22802.5	24025.5	23684.4	20978.0	14115.5
62.5°	1640.5	1627.0	1546.2	1772.9	3101.4	9149.3	19438.6	21153.1	21922.8	20619.0	13743.0
65°	1420.5	1393.6	1245.5	1236.5	1505.8	3794.8	14247.9	16628.9	18119.0	19023.4	12852.1
67.5°	1279.1	1238.8	1088.4	1014.3	1081.7	1667.4	8029.5	11153.3	13379.4	16088.1	10899.7
70°	1142.3	1122.1	971.7	864.0	857.3	1016.6	2957.7	5756.2	8186.5	10976.0	7968.9
72.5°	1023.3	987.4	859.5	756.3	704.7	720.4	1283.6	2217.2	4236.9	6846.8	4766.5
75°	886.4	859.5	747.3	644.1	581.2	527.4	783.2	1025.6	1932.2	3254.0	2250.9
77.5°	684.5	666.5	590.2	511.7	475.8	392.7	475.8	646.3	893.2	1371.2	1171.4
80°	397.2	408.4	439.8	399.5	350.1	280.5	309.7	372.5	536.3	742.8	664.3
82.5°	199.7	213.2	285.0	231.1	208.7	163.8	184.0	219.9	280.5	410.7	260.3
85°	15.7	15.7	51.6	58.3	71.8	58.3	74.1	89.8	127.9	163.8	87.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.7	11.2	20.2	38.2	24.7
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°	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2	7825.2
2.5°	7838.7	7724.3	7587.4	7475.2	7302.4	7210.4	7093.7	6950.0	6891.7	6864.8	6849.0
5°	7854.4	7652.4	7360.7	7091.4	6792.9	6557.3	6294.8	6021.0	5863.9	5825.7	5798.8
7.5°	7912.8	7630.0	7165.5	6721.1	6166.8	5652.9	5152.5	4656.5	4403.0	4306.5	4297.5
10°	7993.5	7621.0	6968.0	6229.7	5293.9	4481.5	3895.8	3507.6	3343.7	3289.9	3271.9
12.5°	8094.5	7614.3	6707.7	5547.5	4286.3	3518.8	3184.4	3121.6	3144.0	3139.5	3139.5
15°	8222.4	7623.3	6393.5	4775.5	3467.2	3054.2	3061.0	3135.0	3204.6	3215.8	3215.8
17.5°	8361.6	7614.3	5937.9	4001.3	2975.7	2944.3	3047.5	3150.7	3213.6	3222.6	3222.6
20°	8511.9	7571.7	5363.4	3271.9	2760.3	2874.7	2986.9	3067.7	3105.9	3114.8	3114.8
22.5°	8601.7	7450.5	4739.6	2769.2	2623.4	2764.8	2838.8	2921.8	2926.3	2854.5	2852.3
25°	8588.2	7223.8	4028.2	2446.1	2477.5	2600.9	2695.2	2636.8	2565.0	2524.6	2517.9
27.5°	8503.0	6882.7	3303.3	2201.5	2304.7	2443.8	2414.7	2365.3	2347.3	2302.5	2298.0
30°	8395.2	6463.1	2652.5	2010.7	2125.2	2253.1	2208.2	2203.7	2185.8	2136.4	2136.4
32.5°	8292.0	6029.9	2161.1	1869.4	2010.7	2019.7	2082.5	2087.0	2078.1	1992.8	1983.8
35°	8262.8	5596.8	1829.0	1757.1	1898.5	1894.0	1983.8	1981.6	1826.7	1707.8	1705.5
37.5°	8350.4	5157.0	1631.5	1665.1	1743.7	1802.0	1873.8	1743.7	1692.1	1620.3	1615.8
40°	8536.6	4750.8	1530.5	1611.3	1644.9	1730.2	1618.0	1627.0	1613.5	1559.7	1552.9
42.5°	8783.5	4405.2	1474.4	1593.3	1588.8	1611.3	1487.9	1523.8	1544.0	1503.6	1496.8
45°	9021.4	4104.5	1445.2	1526.0	1548.4	1418.3	1393.6	1427.3	1458.7	1443.0	1436.2
47.5°	9196.4	3844.2	1429.5	1434.0	1496.8	1353.2	1312.8	1328.5	1366.7	1373.4	1371.2
50°	9250.3	3622.0	1411.6	1357.7	1344.2	1288.1	1256.7	1252.2	1297.1	1328.5	1333.0
52.5°	9147.0	3424.5	1364.4	1290.4	1225.3	1234.3	1223.0	1200.6	1245.5	1288.1	1292.6
55°	8994.4	3312.3	1290.4	1225.3	1149.0	1184.9	1189.4	1169.2	1198.4	1227.5	1227.5
57.5°	9005.6	3377.4	1218.6	1164.7	1081.7	1128.8	1153.5	1144.5	1144.5	1166.9	1169.2
60°	9079.7	3471.7	1171.4	1088.4	1014.3	1063.7	1119.8	1110.8	1090.6	1119.8	1119.8
62.5°	8866.5	3346.0	1140.0	1014.3	942.5	1000.9	1068.2	1063.7	1041.3	1088.4	1092.9
65°	8238.2	3009.4	1104.1	922.3	870.7	938.0	996.4	1012.1	991.9	1054.7	1066.0
67.5°	6905.2	2531.4	1034.5	834.8	798.9	861.7	917.8	940.3	924.6	998.6	1007.6
70°	5148.0	2048.9	924.6	738.3	711.4	767.5	819.1	828.1	830.3	917.8	926.8
72.5°	3283.1	1593.3	778.7	630.6	610.4	653.0	691.2	727.1	742.8	825.8	823.6
75°	1831.2	1184.9	626.1	534.1	498.2	531.9	576.7	619.4	664.3	785.4	798.9
77.5°	1054.7	832.6	496.0	428.6	386.0	421.9	460.0	520.6	655.3	760.8	747.3
80°	594.7	540.8	374.8	314.2	287.2	314.2	343.4	457.8	516.1	561.0	567.8
82.5°	278.3	303.0	255.8	193.0	193.0	210.9	237.9	354.6	390.5	318.7	278.3
85°	101.0	136.9	125.7	98.7	87.5	85.3	148.1	202.0	125.7	112.2	96.5
87.5°	26.9	38.2	35.9	24.7	13.5	11.2	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)