

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455158

Luminaire Tested: **GALN-SA6B-750-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-750-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33444 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

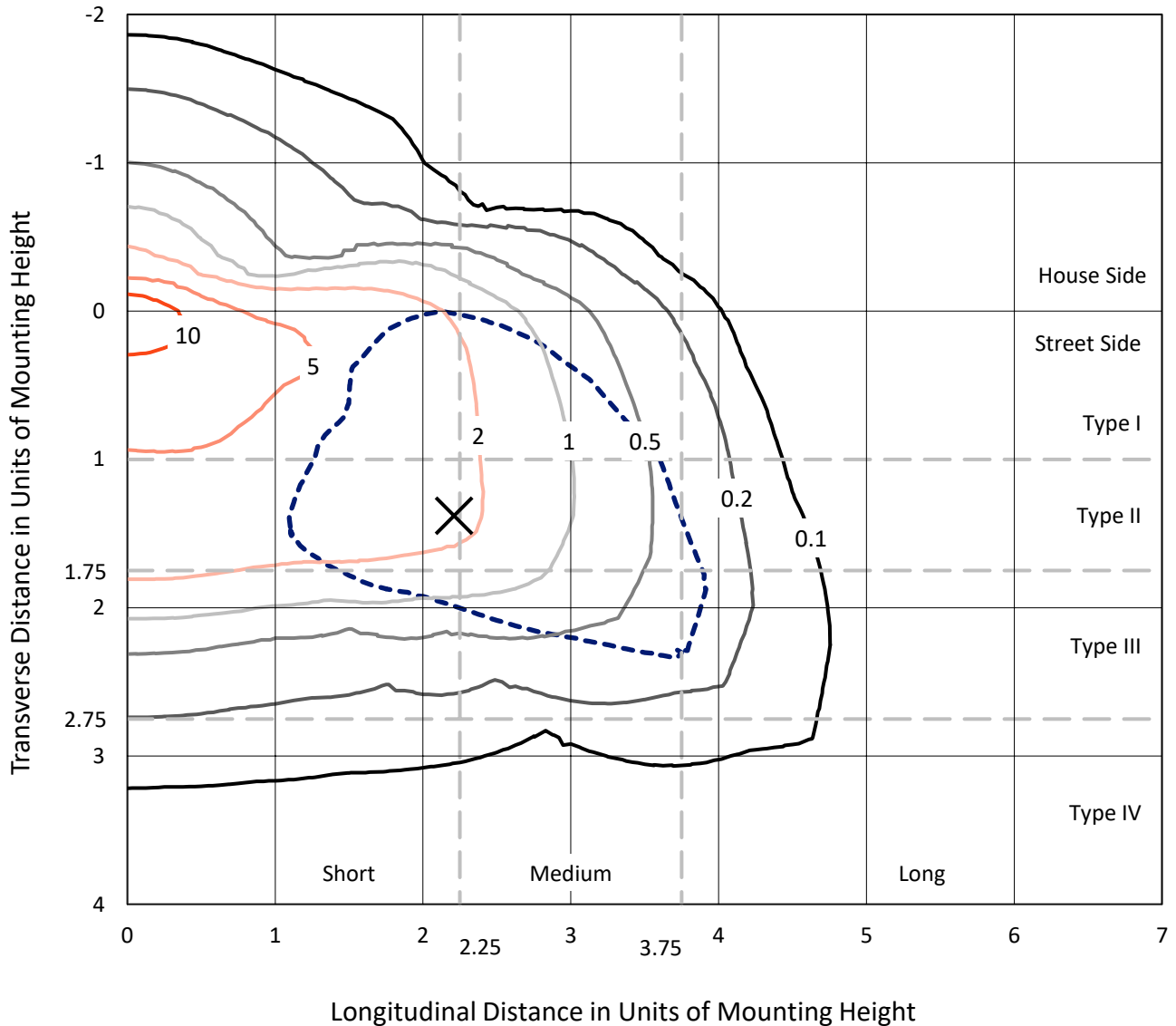
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

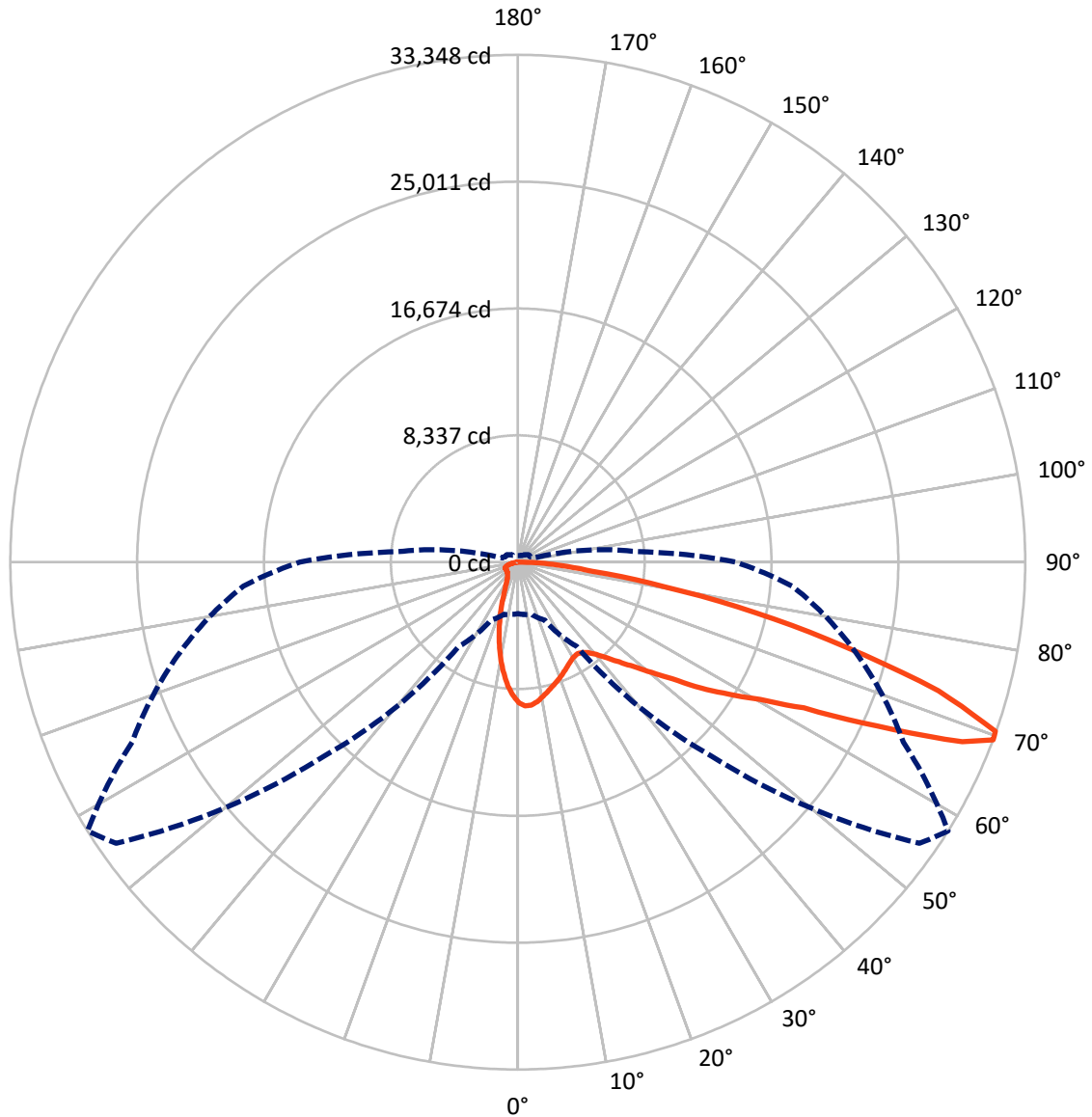
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4901.2	0.0	4901.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	28542.8	0.0	28542.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	33444.0	0.0	33444.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.9	2.3
10°-20°	1723.4	5.2
20°-30°	2226.7	6.7
30°-40°	2892.1	8.6
40°-50°	4204.6	12.6
50°-60°	6709.2	20.1
60°-70°	8962.7	26.8
70°-80°	5166.6	15.4
80°-90°	773.8	2.3
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°	33444.0	100.0
0°-180°	33444.0	100.0

**Coefficient of Utilization**



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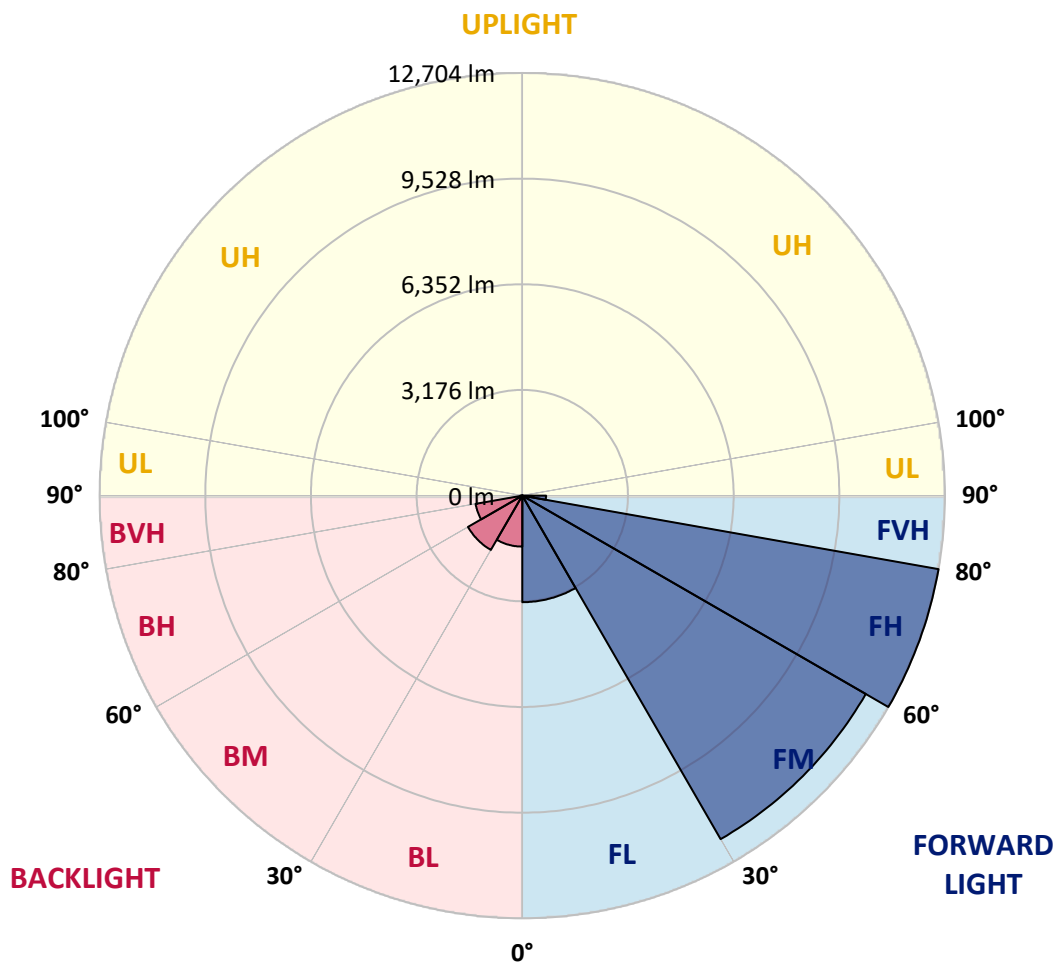
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3203.1	9.6			
FM	(30°-60°)	11921.0	35.6			
FH	(60°-80°)	12704.1	38.0			G5
FVH	(80°-90°)	714.6	2.1			G4/750
BL	(0°-30°)	1531.9	4.6	B3/2500		
BM	(30°-60°)	1884.8	5.6	B2/2500		
BH	(60°-80°)	1425.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	59.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0
2.5°	9585.2	9611.3	9603.8	9594.5	9579.6	9538.5	9471.4	9460.2	9417.3	9325.9	9212.1
5°	9437.8	9460.2	9462.1	9475.1	9493.8	9486.3	9437.8	9432.2	9368.8	9245.7	9055.4
7.5°	8932.3	8962.2	9027.5	9100.2	9165.5	9227.0	9242.0	9251.3	9212.1	9070.4	8816.7
10°	8363.5	8393.3	8423.1	8531.3	8691.7	8844.7	8971.5	8988.3	8997.6	8867.1	8557.4
12.5°	7733.0	7794.6	7858.0	8018.4	8232.9	8473.5	8697.3	8732.8	8796.2	8697.3	8333.6
15°	7197.7	7261.1	7352.5	7496.2	7755.4	8102.3	8417.6	8475.4	8600.3	8550.0	8124.7
17.5°	6826.6	6848.9	6912.4	7076.5	7356.3	7721.8	8143.4	8259.0	8458.6	8445.5	7945.7
20°	6533.7	6561.7	6600.9	6701.6	6992.6	7378.6	7887.8	8037.1	8307.5	8352.3	7768.5
22.5°	6410.6	6431.1	6425.5	6479.6	6677.3	7065.3	7628.6	7805.8	8173.2	8288.9	7604.3
25°	6418.1	6436.7	6408.8	6395.7	6513.2	6789.3	7358.1	7583.8	8065.0	8246.0	7455.1
27.5°	6543.0	6556.1	6503.9	6451.7	6461.0	6617.7	7134.3	7384.2	7973.6	8264.6	7330.2
30°	6710.9	6735.2	6701.6	6638.2	6569.2	6576.6	6990.7	7236.9	7930.7	8329.9	7270.5
32.5°	6927.3	6949.7	6934.7	6884.4	6794.8	6696.0	6955.3	7182.8	7934.5	8462.3	7257.4
35°	7154.8	7199.6	7223.8	7220.1	7147.4	6975.8	7095.1	7283.5	8024.0	8684.3	7333.9
37.5°	7412.2	7449.5	7554.0	7621.1	7554.0	7354.4	7410.4	7540.9	8221.7	9005.1	7501.8
40°	7662.2	7718.1	7871.1	8080.0	8053.8	7878.5	7891.6	7977.4	8570.5	9482.6	7830.0
42.5°	7923.3	7990.4	8257.1	8566.8	8628.3	8492.2	8527.6	8604.1	9066.6	10144.7	8393.3
45°	8259.0	8339.2	8667.5	9053.6	9296.1	9212.1	9312.8	9350.1	9730.6	11006.4	9135.6
47.5°	8691.7	8785.0	9189.7	9671.0	10014.1	10090.6	10265.9	10243.6	10553.2	12026.7	10098.1
50°	9421.0	9473.2	9855.6	10346.1	10818.0	11163.1	11353.3	11388.8	11573.4	13019.0	11174.3
52.5°	10288.3	10335.0	10611.0	11040.0	11631.3	12362.4	12832.4	12716.8	12761.6	14227.6	12433.3
55°	11263.8	11342.2	11517.5	11802.9	12569.4	13645.7	14589.4	14617.4	14121.3	15384.0	13640.1
57.5°	12019.2	12151.6	12451.9	12858.5	13830.3	15072.5	16340.8	16359.5	15725.3	16618.7	14971.8
60°	11638.7	11795.4	12481.8	13472.2	15484.7	17562.5	18433.6	18327.3	17286.5	18025.1	16596.4
62.5°	9997.4	10025.3	11023.2	12571.3	15993.9	20893.7	21548.4	21098.9	19369.9	19808.2	18247.0
65°	6470.3	6653.1	7443.9	9613.1	14320.8	22742.1	27005.9	25967.0	22290.8	21831.9	19629.1
67.5°	4084.7	4038.1	4366.4	5489.2	9850.0	21113.8	31663.3	31499.1	26110.6	23109.6	19299.0
69°	3387.2	3439.4	3551.3	4207.8	6778.1	18027.0	32213.5	33347.5	27962.8	23008.9	18099.7
70°	3072.0	3096.2	3213.7	3730.4	5230.0	15098.6	31310.8	33297.2	28690.2	22587.3	17230.5
72.5°	2437.8	2435.9	2637.4	3103.7	3909.4	8619.0	25709.6	28908.4	27877.0	20625.2	14236.9
75°	1852.1	1882.0	2103.9	2626.2	3601.7	4709.6	17941.2	22262.8	22264.6	16290.5	8883.8
77.5°	1335.5	1354.1	1613.4	2204.6	3392.8	3818.0	11950.2	15967.8	15011.0	7464.4	2792.2
80°	874.8	886.0	1083.7	1745.8	3058.9	3601.7	7085.8	9773.5	7080.2	1980.8	923.3
82.5°	479.4	535.3	662.1	1130.3	2454.6	3327.5	4306.7	4946.5	2656.0	882.2	481.2
85°	240.6	255.5	373.0	660.3	1604.1	2753.0	2999.2	2836.9	1370.9	438.3	249.9
87.5°	70.9	89.5	154.8	255.5	650.9	1434.3	1669.3	1497.7	527.8	158.5	52.2
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°	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0	9242.0
2.5°	9165.5	9131.9	8982.7	8848.4	8725.3	8594.7	8484.7	8387.7	8397.0	8398.9	8300.0
5°	8956.6	8880.1	8596.6	8331.8	8107.9	7824.4	7582.0	7425.3	7346.9	7242.5	7279.8
7.5°	8673.1	8525.7	8132.2	7692.0	7279.8	6912.4	6513.2	6239.0	6063.7	5894.0	5916.3
10°	8380.3	8143.4	7570.8	6988.8	6455.4	5867.9	5358.7	4922.2	4597.7	4476.4	4396.2
12.5°	8080.0	7768.5	7041.1	6267.0	5530.3	4827.1	4105.3	3637.1	3279.0	3088.7	3113.0
15°	7805.8	7427.1	6489.0	5545.2	4588.3	3750.9	3030.9	2585.1	2335.2	2283.0	2312.8
17.5°	7552.1	7056.0	5972.3	4843.9	3726.6	2812.7	2277.4	2025.6	1924.9	1896.9	1895.0
20°	7291.0	6740.8	5392.2	4094.1	2904.1	2180.4	1868.9	1751.4	1732.8	1743.9	1745.8
22.5°	7026.1	6350.9	4795.4	3349.9	2312.8	1783.1	1633.9	1602.2	1617.1	1643.2	1647.0
25°	6781.8	6007.7	4220.9	2697.0	1846.5	1566.8	1494.0	1494.0	1527.6	1566.8	1568.6
27.5°	6580.4	5675.7	3648.3	2141.2	1546.2	1410.1	1385.8	1398.9	1445.5	1475.4	1477.2
30°	6414.4	5366.1	3107.4	1716.0	1359.7	1285.1	1279.5	1301.9	1335.5	1363.4	1365.3
32.5°	6289.4	5093.8	2601.9	1441.8	1231.0	1190.0	1188.1	1204.9	1223.6	1231.0	1238.5
35°	6240.9	4868.1	2139.4	1268.3	1145.2	1119.1	1119.1	1117.2	1124.7	1128.4	1132.2
37.5°	6280.1	4694.7	1781.2	1156.4	1081.8	1063.2	1052.0	1040.8	1037.0	1037.0	1038.9
40°	6446.1	4603.3	1514.5	1083.7	1037.0	1009.1	988.5	975.5	962.4	966.2	969.9
42.5°	6798.6	4620.0	1333.6	1035.2	997.9	958.7	928.9	913.9	904.6	915.8	913.9
45°	7360.0	4787.9	1218.0	1001.6	958.7	908.3	880.4	865.4	865.4	882.2	887.8
47.5°	8145.2	5108.7	1156.4	975.5	928.9	869.2	841.2	830.0	833.7	861.7	863.6
50°	9103.9	5666.4	1145.2	962.4	913.9	841.2	809.5	798.3	807.6	837.5	841.2
52.5°	10161.5	6384.5	1199.3	964.3	900.9	824.4	783.4	766.6	775.9	800.2	807.6
55°	11414.9	7283.5	1339.2	971.8	882.2	815.1	764.7	727.4	738.6	755.4	757.3
57.5°	12694.4	8417.6	1585.4	973.6	867.3	798.3	733.0	684.5	684.5	695.7	701.3
60°	14257.4	9652.3	1909.9	975.5	869.2	774.0	690.1	636.0	628.6	634.2	636.0
62.5°	15809.3	10685.6	1964.0	969.9	887.8	749.8	643.5	587.5	574.5	572.6	568.9
65°	16493.8	10493.5	1609.6	943.8	908.3	734.9	606.2	540.9	518.5	511.1	511.1
67.5°	15378.4	8876.4	1210.5	908.3	895.3	720.0	570.7	501.7	475.6	460.7	460.7
69°	14330.2	7895.3	1087.4	884.1	861.7	695.7	548.4	481.2	449.5	432.7	427.1
70°	13520.7	7220.1	1035.2	863.6	830.0	667.7	531.6	466.3	430.9	412.2	408.5
72.5°	10790.1	5664.5	906.5	785.2	706.9	561.4	471.9	419.7	386.1	365.6	360.0
75°	6218.5	3070.1	751.7	682.7	568.9	436.5	399.1	365.6	339.5	320.8	315.2
77.5°	1913.7	1186.3	544.6	539.0	417.8	337.6	318.9	305.9	287.2	266.7	263.0
80°	805.8	604.3	369.3	363.7	277.9	235.0	229.4	227.6	220.1	203.3	197.7
82.5°	442.0	341.3	257.4	223.8	167.9	136.2	141.8	143.6	138.0	121.2	110.0
85°	216.4	186.5	125.0	100.7	76.5	48.5	46.6	56.0	52.2	37.3	41.0
87.5°	42.9	52.2	33.6	14.9	7.5	0.0	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)