

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: P455711

Luminaire Tested: **GALN-SA6D-830-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-830-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35682 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

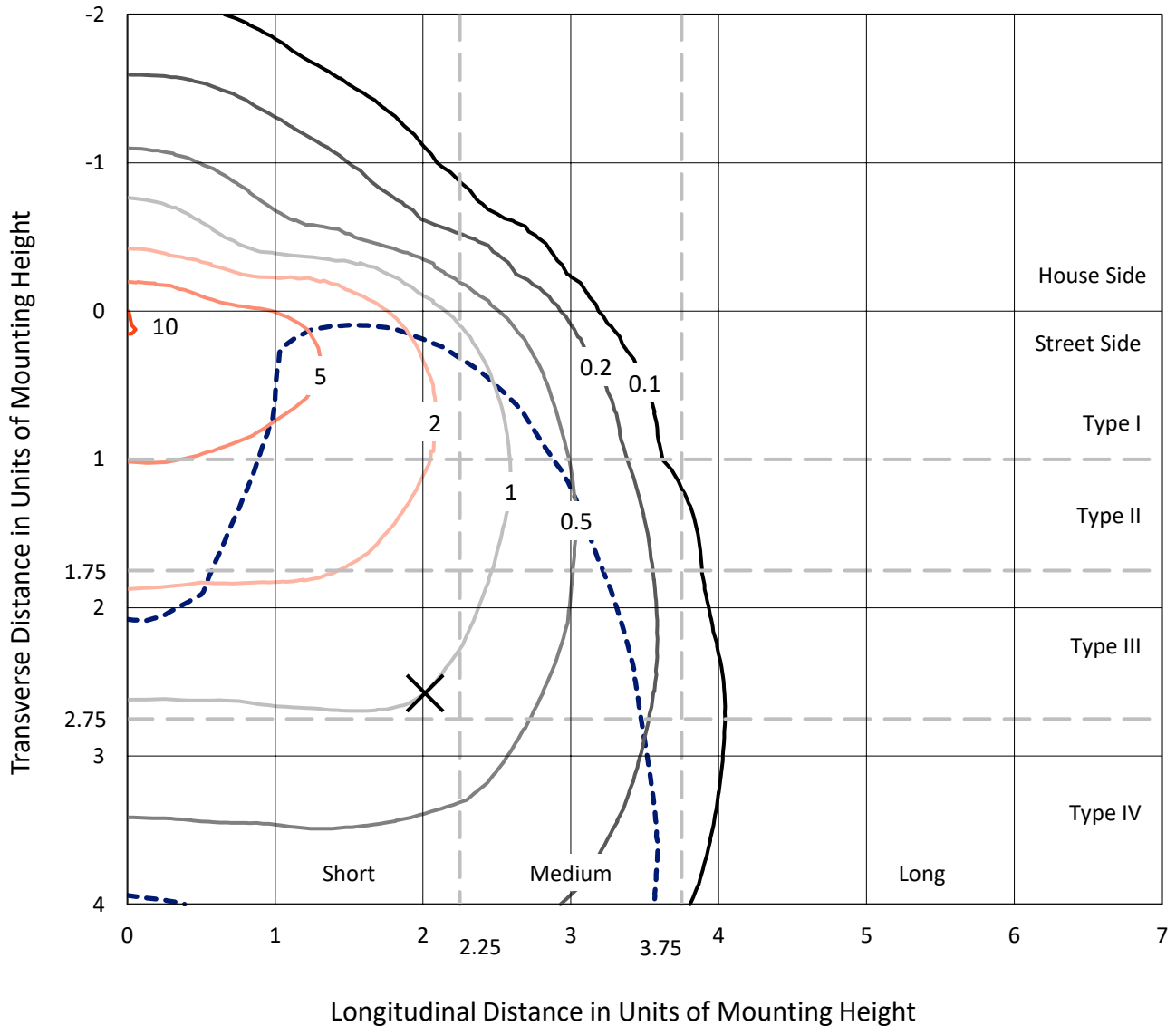
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

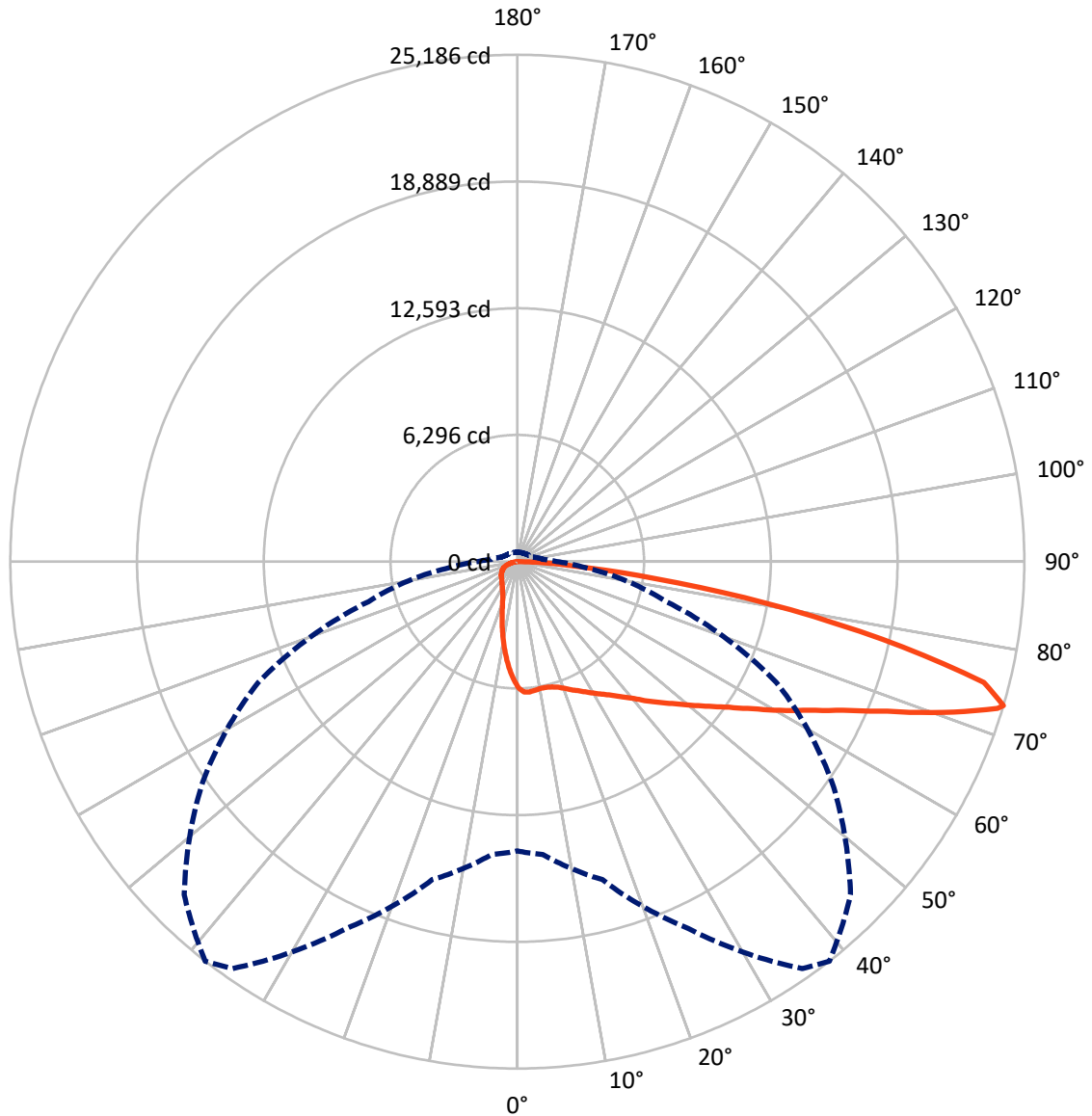
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4796.7	0.0	4796.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	30885.3	0.0	30885.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	35682.0	0.0	35682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.2	1.5
10°-20°	1403.2	3.9
20°-30°	2185.0	6.1
30°-40°	3204.9	9.0
40°-50°	4754.1	13.3
50°-60°	6735.7	18.9
60°-70°	8544.4	23.9
70°-80°	7112.5	19.9
80°-90°	1195.0	3.3
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°	35682.0	100.0
0°-180°	35682.0	100.0

**Coefficient of Utilization**



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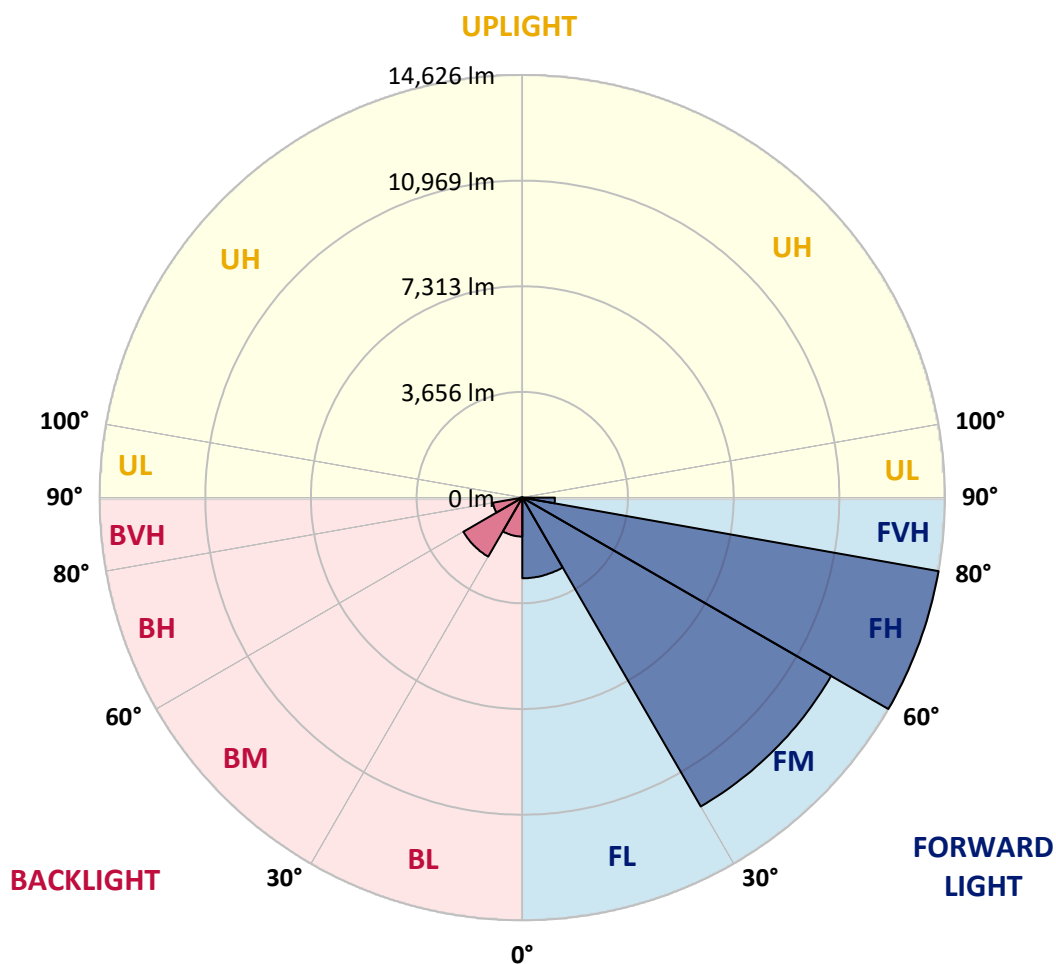
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2789.4	7.8			
FM (30°-60°)	12339.8	34.6			
FH (60°-80°)	14625.9	41.0			G5
FVH (80°-90°)	1130.2	3.2			G5
BL (0°-30°)	1346.0	3.8	B3/2500		
BM (30°-60°)	2354.9	6.6	B2/2500		
BH (60°-80°)	1031.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7
2.5°	6520.6	6552.8	6536.7	6514.6	6500.4	6486.3	6466.2	6407.8	6361.4	6311.0	6232.5
5°	6569.0	6589.1	6575.0	6546.8	6514.6	6500.4	6462.2	6385.6	6311.0	6226.4	6109.5
7.5°	6540.8	6548.8	6532.7	6498.4	6470.2	6444.0	6399.7	6315.1	6224.4	6121.6	5968.5
10°	6440.0	6470.2	6470.2	6442.0	6413.8	6399.7	6355.4	6274.8	6192.2	6075.3	5893.9
12.5°	6357.4	6389.6	6415.8	6407.8	6405.7	6405.7	6371.5	6311.0	6214.3	6103.5	5887.9
15°	6301.0	6339.2	6395.7	6427.9	6448.1	6454.1	6440.0	6387.6	6288.9	6159.9	5912.1
17.5°	6288.9	6335.2	6438.0	6508.5	6560.9	6558.9	6554.9	6482.3	6373.5	6240.5	5942.3
20°	6343.3	6403.7	6546.8	6657.6	6734.2	6720.1	6697.9	6603.2	6476.3	6327.2	5970.5
22.5°	6506.5	6569.0	6726.1	6847.0	6921.6	6921.6	6855.1	6730.2	6595.2	6427.9	6008.8
25°	6740.2	6808.7	6976.0	7098.9	7133.2	7107.0	7040.5	6889.3	6734.2	6573.0	6089.4
27.5°	7026.4	7109.0	7264.1	7366.9	7356.8	7336.7	7268.2	7074.7	6919.6	6772.5	6226.4
30°	7383.0	7443.5	7604.7	7628.9	7592.6	7588.6	7491.8	7298.4	7153.3	7040.5	6421.9
32.5°	7719.5	7773.9	7902.9	7913.0	7848.5	7856.6	7765.9	7588.6	7505.9	7465.6	6750.3
35°	8076.2	8104.4	8215.2	8203.1	8160.8	8154.8	8118.5	7949.2	7975.4	8048.0	7215.8
37.5°	8374.4	8430.8	8493.3	8503.4	8501.4	8521.5	8545.7	8465.1	8616.2	8843.9	7826.3
40°	8648.5	8696.8	8789.5	8821.8	8900.3	8940.6	9023.3	9025.3	9373.9	9748.7	8577.9
42.5°	8833.8	8916.5	9089.7	9148.2	9339.6	9460.5	9583.4	9714.4	10220.2	10701.8	9464.5
45°	8995.0	9103.9	9392.0	9573.4	9833.3	9980.4	10240.3	10514.4	11241.8	11872.5	10365.3
47.5°	9238.9	9335.6	9666.0	9986.4	10379.4	10548.6	10937.5	11346.6	12297.7	12988.8	11227.7
50°	9577.4	9635.8	9972.3	10494.2	10996.0	11213.6	11727.4	12317.8	13426.1	14091.0	11985.3
52.5°	10010.6	10034.8	10302.8	10998.0	11658.9	11928.9	12610.0	13299.1	14413.4	15048.2	12585.8
55°	10522.4	10482.1	10691.7	11532.0	12416.5	12769.2	13500.6	14292.5	15523.7	15821.9	13023.1
57.5°	11028.2	10965.7	11133.0	12180.8	13351.5	13776.7	14629.0	15316.2	16515.1	16545.3	13329.3
60°	11564.2	11517.8	11717.3	12942.5	14498.1	15001.8	15789.7	16378.1	17474.2	17049.1	13377.7
62.5°	12114.3	12039.7	12323.9	13798.8	15789.7	16247.1	17010.8	17506.5	18415.3	17236.5	12912.2
65°	12648.3	12614.0	13053.3	14816.4	17260.6	17780.5	18522.1	18858.6	19168.9	16954.4	11757.6
67.5°	13216.5	13285.0	13986.2	16174.6	19178.9	19831.8	20631.8	20315.4	19384.5	15618.4	9901.8
70°	14083.0	14127.3	15211.4	17953.8	21651.4	22439.2	22826.1	20833.3	18344.7	13081.5	7443.5
72.5°	14455.7	14651.2	16305.5	19821.7	24460.3	24941.9	23563.6	19678.7	15281.9	8886.2	3911.2
73°	14373.1	14606.9	16355.9	20105.9	24679.9	25185.7	23406.5	19084.2	14205.9	7653.0	3353.0
75°	13343.5	13631.6	15701.0	19868.1	24252.8	23950.5	20879.6	16265.2	9599.5	3479.9	1527.4
77.5°	10528.5	10611.1	12440.7	16043.6	19098.3	18538.2	15626.5	10165.8	3921.2	1293.6	866.5
80°	5281.4	5585.6	7012.3	9190.5	12771.2	12587.8	9863.5	4807.8	1634.2	759.7	574.3
82.5°	2540.9	2756.5	3415.5	4481.4	7056.6	6889.3	4884.4	2627.6	1037.7	443.3	338.5
85°	1636.2	1797.4	2174.2	2137.9	2901.6	2770.7	2194.4	1988.8	614.6	231.7	235.8
87.5°	1080.0	1182.8	1418.6	1134.5	1055.9	955.1	969.2	1120.4	120.9	88.7	32.2
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°	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7	6268.7
2.5°	6200.2	6174.0	6087.4	6002.7	5922.1	5845.6	5795.2	5728.7	5684.4	5696.5	5714.6
5°	6045.1	5986.6	5833.5	5684.4	5543.3	5376.1	5241.1	5132.3	5049.6	5019.4	5013.4
7.5°	5881.8	5783.1	5563.5	5307.6	5067.8	4860.2	4620.4	4501.6	4362.5	4314.2	4298.0
10°	5783.1	5650.1	5341.8	4985.2	4624.5	4279.9	4020.0	3808.4	3617.0	3580.7	3562.6
12.5°	5754.9	5579.6	5164.5	4705.1	4225.5	3802.3	3417.5	3139.4	2954.0	2911.7	2849.2
15°	5738.8	5521.2	4999.3	4423.0	3814.4	3298.6	2893.6	2569.1	2399.9	2287.0	2289.1
17.5°	5724.7	5454.7	4813.9	4114.7	3459.8	2865.4	2418.0	2125.8	1970.7	1910.2	1904.2
20°	5704.5	5376.1	4600.3	3790.2	3054.8	2470.4	2065.4	1847.8	1743.0	1692.6	1690.6
22.5°	5696.5	5299.5	4390.7	3459.8	2696.1	2166.1	1831.7	1678.5	1612.0	1577.8	1577.8
25°	5716.6	5245.1	4171.1	3145.4	2377.7	1906.2	1670.5	1565.7	1527.4	1509.2	1503.2
27.5°	5779.1	5220.9	3953.5	2831.1	2085.5	1728.9	1561.6	1489.1	1460.9	1446.8	1448.8
30°	5898.0	5218.9	3739.9	2520.8	1867.9	1593.9	1475.0	1424.6	1402.5	1394.4	1392.4
32.5°	6089.4	5263.2	3530.3	2264.9	1684.6	1481.0	1394.4	1358.1	1348.0	1342.0	1340.0
35°	6413.8	5388.2	3322.8	2031.1	1543.5	1380.3	1317.8	1299.7	1285.6	1291.6	1293.6
37.5°	6851.1	5603.8	3125.3	1847.8	1436.7	1305.7	1253.3	1237.2	1229.2	1235.2	1241.3
40°	7437.4	5914.1	2960.1	1700.7	1360.1	1243.3	1196.9	1182.8	1174.8	1184.8	1186.8
42.5°	8084.3	6272.8	2823.0	1585.8	1297.7	1190.9	1146.5	1130.4	1124.4	1130.4	1132.4
45°	8749.2	6689.9	2752.5	1503.2	1245.3	1152.6	1106.2	1088.1	1074.0	1070.0	1076.0
47.5°	9404.1	7052.6	2750.5	1452.8	1203.0	1118.3	1068.0	1047.8	1029.7	1019.6	1017.6
50°	9938.1	7340.7	2798.9	1430.7	1166.7	1080.0	1029.7	1009.5	985.3	965.2	969.2
52.5°	10341.1	7528.1	2821.0	1420.6	1146.5	1039.7	989.4	971.2	943.0	916.8	916.8
55°	10601.0	7572.4	2766.6	1410.5	1130.4	997.4	943.0	926.9	898.7	872.5	872.5
57.5°	10689.7	7435.4	2571.2	1386.3	1114.3	961.2	896.7	882.6	860.4	834.2	830.2
60°	10484.1	6972.0	2228.6	1313.8	1082.1	922.9	846.3	840.3	832.2	810.0	808.0
62.5°	9692.2	5988.6	1855.8	1219.1	1027.7	882.6	800.0	810.0	816.1	804.0	802.0
65°	8374.4	4862.2	1585.8	1088.1	955.1	826.2	749.6	775.8	791.9	791.9	787.9
67.5°	6792.6	3733.8	1336.0	975.3	864.4	749.6	693.2	713.3	725.4	721.4	731.5
70°	4828.0	2528.8	1088.1	846.3	749.6	662.9	620.6	620.6	612.6	608.5	608.5
72.5°	2341.5	1444.8	882.6	707.3	638.8	566.2	532.0	517.9	501.7	499.7	489.6
73°	1956.6	1295.7	842.3	681.1	612.6	552.1	513.8	491.7	481.6	473.5	471.5
75°	1190.9	983.3	703.2	574.3	521.9	475.5	441.3	421.1	411.1	405.0	403.0
77.5°	783.8	733.5	546.1	439.3	399.0	370.8	356.7	336.5	330.5	322.4	322.4
80°	584.4	560.2	390.9	310.3	286.1	262.0	257.9	253.9	237.8	227.7	223.7
82.5°	376.8	399.0	266.0	207.5	181.4	161.2	163.2	169.3	153.1	139.0	135.0
85°	268.0	288.1	161.2	94.7	76.6	66.5	74.6	66.5	68.5	54.4	44.3
87.5°	44.3	76.6	28.2	12.1	6.0	4.0	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)