

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: P458000

Luminaire Tested: **GALN-SA9B-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458000  
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-SA9B-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 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: 37586 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

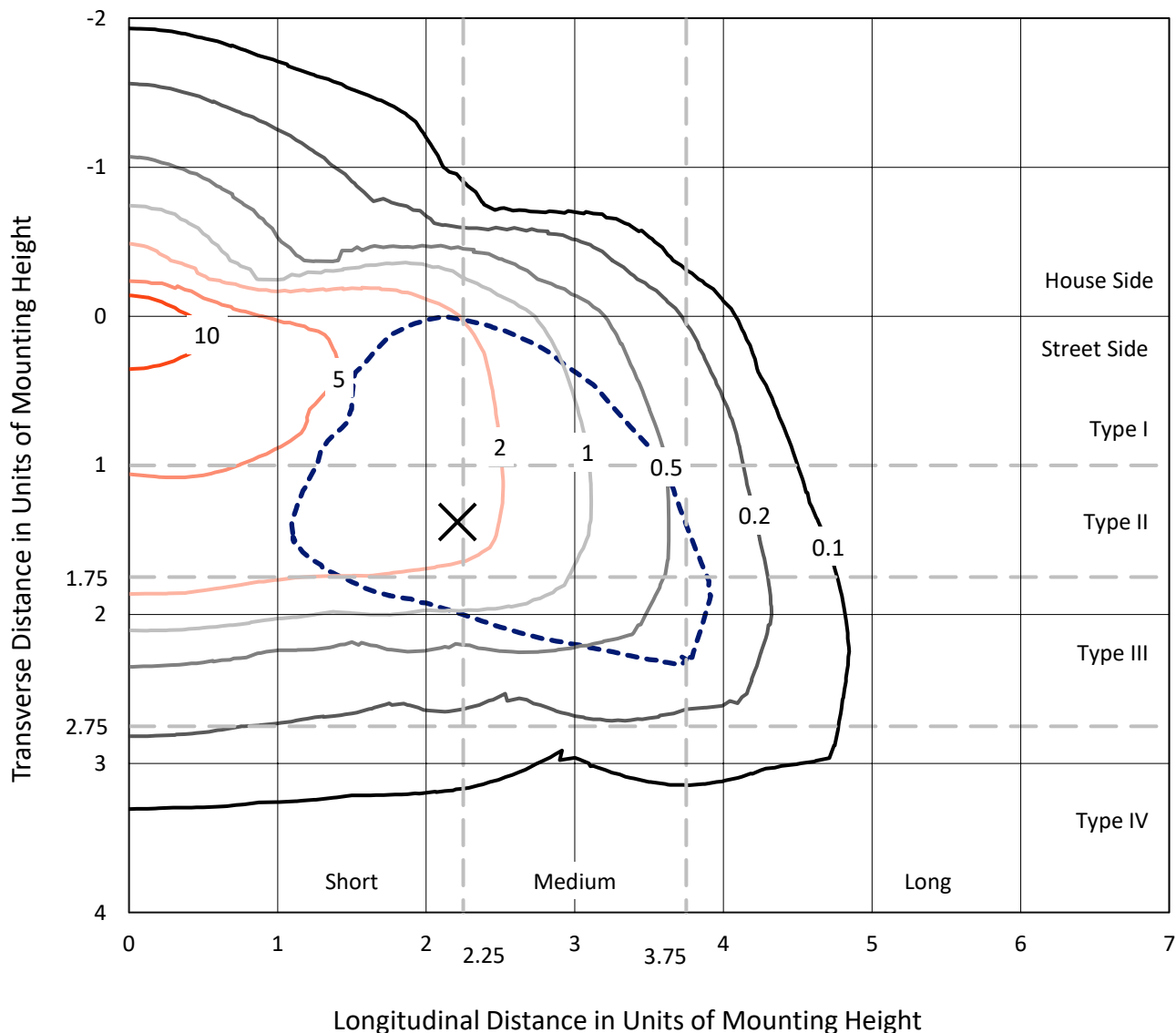
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

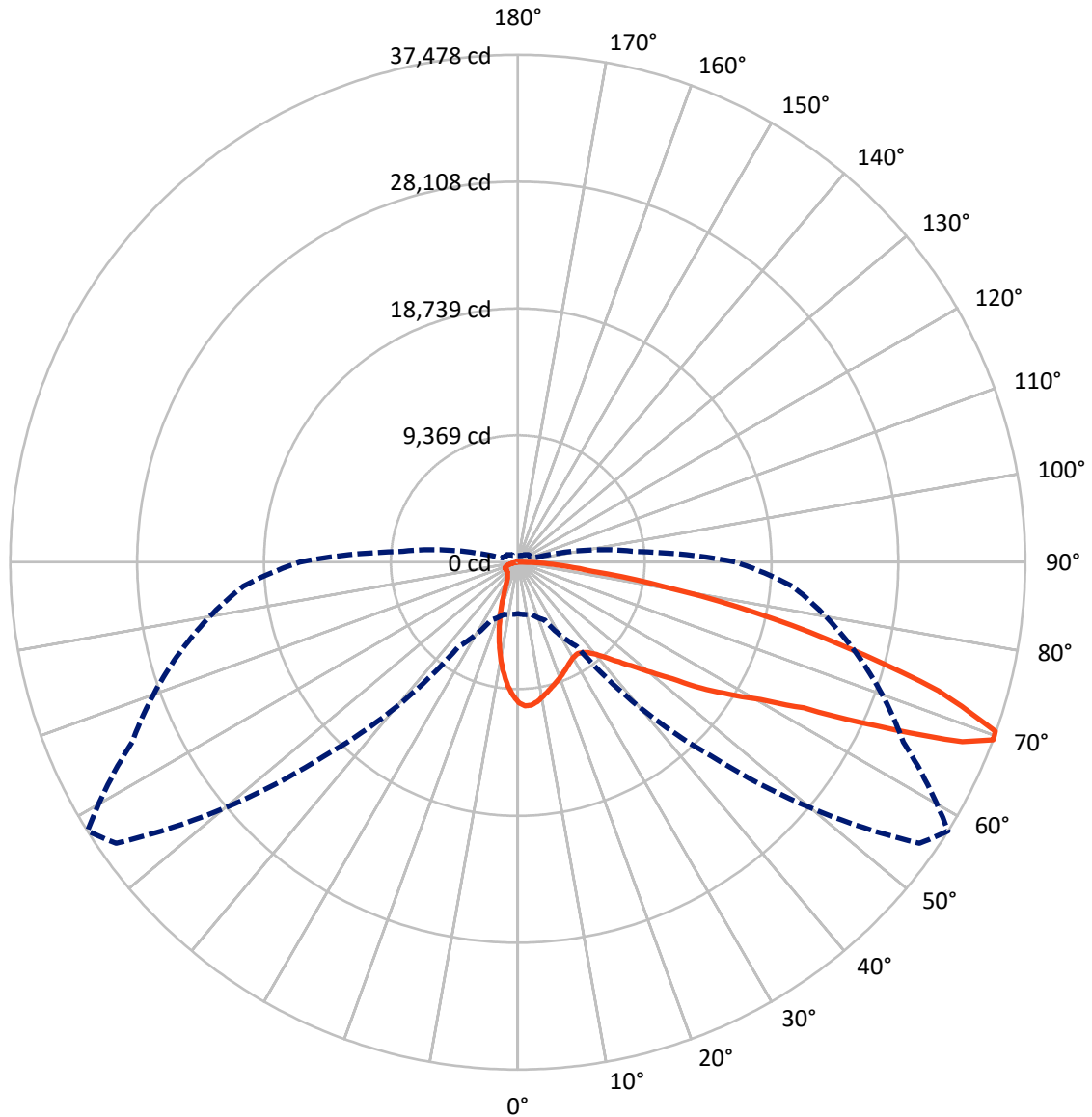
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	5508.2	0.0	5508.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	32077.8	0.0	32077.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	37586.0	0.0	37586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	882.1	2.3
10°-20°	1936.9	5.2
20°-30°	2502.5	6.7
30°-40°	3250.2	8.6
40°-50°	4725.4	12.6
50°-60°	7540.1	20.1
60°-70°	10072.7	26.8
70°-80°	5806.5	15.4
80°-90°	869.7	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°	37586.0	100.0
0°-180°	37586.0	100.0

**Coefficient of Utilization**

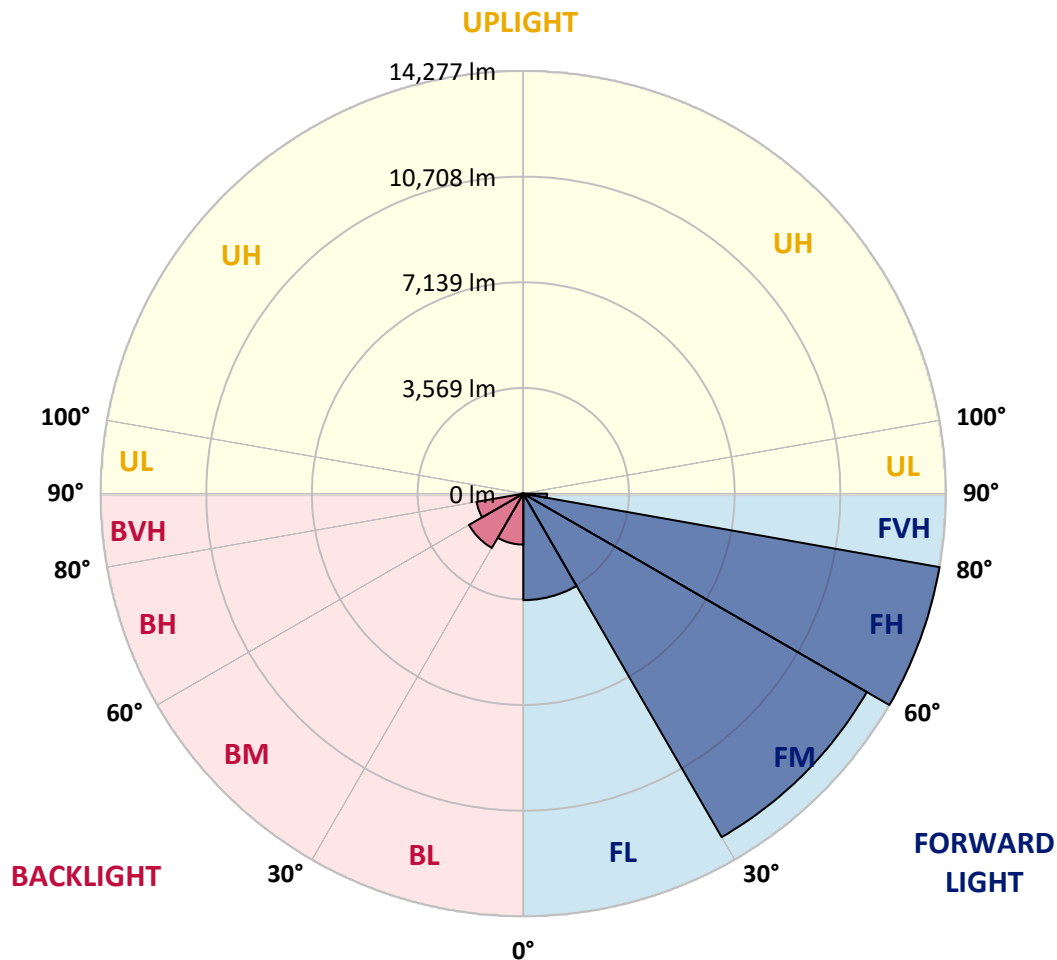


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3599.8	9.6			
FM	(30°-60°)	13397.5	35.6			
FH	(60°-80°)	14277.5	38.0			G5
FVH	(80°-90°)	803.1	2.1			G5
BL	(0°-30°)	1721.6	4.6	B3/2500		
BM	(30°-60°)	2118.3	5.6	B2/2500		
BH	(60°-80°)	1601.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	66.6	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°	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6
2.5°	10772.3	10801.6	10793.2	10782.7	10766.0	10719.9	10644.4	10631.8	10583.6	10480.9	10353.0
5°	10606.7	10631.8	10633.9	10648.6	10669.6	10661.2	10606.7	10600.4	10529.1	10390.8	10177.0
7.5°	10038.6	10072.1	10145.5	10227.3	10300.6	10369.8	10386.6	10397.1	10353.0	10193.7	9908.6
10°	9399.3	9432.8	9466.3	9587.9	9768.2	9940.1	10082.6	10101.5	10112.0	9965.2	9617.3
12.5°	8690.8	8759.9	8831.2	9011.5	9252.5	9522.9	9774.5	9814.3	9885.6	9774.5	9365.7
15°	8089.2	8160.4	8263.1	8424.5	8715.9	9105.8	9460.1	9525.0	9665.5	9608.9	9131.0
17.5°	7672.0	7697.2	7768.4	7952.9	8267.3	8678.2	9151.9	9281.9	9506.2	9491.5	8929.7
20°	7342.9	7374.4	7418.4	7531.6	7858.6	8292.5	8864.7	9032.4	9336.4	9386.7	8730.6
22.5°	7204.6	7227.6	7221.3	7282.1	7504.3	7940.3	8573.4	8772.5	9185.5	9315.4	8546.1
25°	7213.0	7233.9	7202.5	7187.8	7319.9	7630.1	8269.4	8523.1	9063.9	9267.2	8378.4
27.5°	7353.4	7368.1	7309.4	7250.7	7261.2	7437.2	8017.9	8298.8	8961.2	9288.2	8238.0
30°	7542.1	7569.3	7531.6	7460.3	7382.7	7391.1	7856.5	8133.2	8913.0	9361.5	8170.9
32.5°	7785.2	7810.4	7793.6	7737.0	7636.4	7525.3	7816.7	8072.4	8917.1	9510.4	8156.2
35°	8040.9	8091.3	8118.5	8114.3	8032.6	7839.7	7973.9	8185.6	9017.8	9759.8	8242.2
37.5°	8330.2	8372.1	8489.5	8565.0	8489.5	8265.2	8328.1	8474.9	9240.0	10120.4	8430.8
40°	8611.1	8674.0	8845.9	9080.7	9051.3	8854.3	8868.9	8965.4	9631.9	10657.0	8799.8
42.5°	8904.6	8980.0	9279.8	9627.8	9696.9	9543.9	9583.7	9669.7	10189.5	11401.1	9432.8
45°	9281.9	9372.0	9740.9	10174.9	10447.4	10353.0	10466.2	10508.1	10935.8	12369.6	10267.1
47.5°	9768.2	9873.0	10327.9	10868.7	11254.4	11340.3	11537.4	11512.2	11860.2	13516.2	11348.7
50°	10587.8	10646.5	11076.2	11627.5	12157.8	12545.6	12759.4	12799.3	13006.8	14631.3	12558.2
52.5°	11562.5	11614.9	11925.2	12407.3	13071.8	13893.5	14421.7	14291.8	14342.1	15989.7	13973.1
55°	12658.8	12746.9	12943.9	13264.6	14126.2	15335.6	16396.3	16427.8	15870.2	17289.3	15329.4
57.5°	13507.8	13656.6	13994.1	14451.1	15543.2	16939.2	18364.6	18385.6	17672.9	18677.0	16826.0
60°	13080.2	13256.2	14027.6	15140.7	17402.5	19737.6	20716.5	20597.1	19427.4	20257.5	18651.8
62.5°	11235.5	11267.0	12388.4	14128.3	17974.7	23481.4	24217.2	23712.0	21768.8	22261.4	20506.9
65°	7271.6	7477.1	8365.9	10803.7	16094.5	25558.7	30350.6	29183.0	25051.4	24535.8	22060.2
67.5°	4590.6	4538.2	4907.2	6169.1	11069.9	23728.8	35584.7	35400.3	29344.4	25971.7	21689.2
69°	3806.7	3865.4	3991.1	4729.0	7617.5	20259.6	36203.1	37477.6	31425.9	25858.5	20341.3
70°	3452.4	3479.7	3611.7	4192.4	5877.7	16968.6	35188.6	37421.0	32243.4	25384.7	19364.5
72.5°	2739.7	2737.6	2964.0	3488.0	4393.6	9686.4	28893.7	32488.7	31329.5	23179.6	16000.1
75°	2081.5	2115.0	2364.5	2951.4	4047.7	5292.9	20163.2	25020.0	25022.1	18308.0	9984.1
77.5°	1500.9	1521.8	1813.2	2477.7	3813.0	4290.9	13430.2	17945.4	16870.1	8388.9	3138.0
80°	983.1	995.7	1217.9	1962.0	3437.7	4047.7	7963.4	10984.0	7957.1	2226.1	1037.6
82.5°	538.7	601.6	744.1	1270.3	2758.6	3739.6	4840.1	5559.1	2985.0	991.5	540.8
85°	270.4	287.2	419.2	742.0	1802.7	3094.0	3370.7	3188.3	1540.7	492.6	280.9
87.5°	79.7	100.6	174.0	287.2	731.6	1612.0	1876.1	1683.2	593.2	178.2	58.7
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°	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6	10386.6
2.5°	10300.6	10262.9	10095.2	9944.3	9805.9	9659.2	9535.5	9426.5	9437.0	9439.1	9328.0
5°	10065.9	9979.9	9661.3	9363.6	9112.1	8793.5	8521.0	8344.9	8256.9	8139.5	8181.4
7.5°	9747.2	9581.6	9139.3	8644.6	8181.4	7768.4	7319.9	7011.7	6814.7	6623.9	6649.1
10°	9418.1	9151.9	8508.4	7854.4	7254.9	6594.6	6022.3	5531.8	5167.1	5030.8	4940.7
12.5°	9080.7	8730.6	7913.1	7043.2	6215.2	5424.9	4613.7	4087.6	3685.1	3471.3	3498.5
15°	8772.5	8347.0	7292.6	6231.9	5156.6	4215.4	3406.3	2905.3	2624.4	2565.7	2599.3
17.5°	8487.4	7929.8	6712.0	5443.8	4188.2	3161.0	2559.4	2276.5	2163.3	2131.8	2129.7
20°	8194.0	7575.6	6060.1	4601.1	3263.8	2450.4	2100.4	1968.3	1947.4	1959.9	1962.0
22.5°	7896.3	7137.5	5389.3	3764.7	2599.3	2003.9	1836.3	1800.6	1817.4	1846.7	1850.9
25°	7621.7	6751.8	4743.7	3031.1	2075.2	1760.8	1679.0	1679.0	1716.8	1760.8	1762.9
27.5°	7395.3	6378.7	4100.1	2406.4	1737.7	1584.7	1557.5	1572.1	1624.5	1658.1	1660.2
30°	7208.8	6030.7	3492.2	1928.5	1528.1	1444.3	1438.0	1463.1	1500.9	1532.3	1534.4
32.5°	7068.3	5724.7	2924.2	1620.3	1383.5	1337.4	1335.3	1354.1	1375.1	1383.5	1391.9
35°	7013.8	5471.0	2404.3	1425.4	1287.1	1257.7	1257.7	1255.6	1264.0	1268.2	1272.4
37.5°	7057.8	5276.1	2001.9	1299.6	1215.8	1194.8	1182.2	1169.7	1165.5	1165.5	1167.6
40°	7244.4	5173.4	1702.1	1217.9	1165.5	1134.0	1111.0	1096.3	1081.6	1085.8	1090.0
42.5°	7640.6	5192.2	1498.8	1163.4	1121.5	1077.4	1043.9	1027.1	1016.6	1029.2	1027.1
45°	8271.5	5380.9	1368.8	1125.6	1077.4	1020.8	989.4	972.6	972.6	991.5	997.8
47.5°	9154.0	5741.4	1299.6	1096.3	1043.9	976.8	945.4	932.8	937.0	968.4	970.5
50°	10231.5	6368.2	1287.1	1081.6	1027.1	945.4	909.7	897.2	907.6	941.2	945.4
52.5°	11420.0	7175.2	1347.8	1083.7	1012.5	926.5	880.4	861.5	872.0	899.3	907.6
55°	12828.6	8185.6	1505.1	1092.1	991.5	916.0	859.4	817.5	830.1	849.0	851.0
57.5°	14266.6	9460.1	1781.8	1094.2	974.7	897.2	823.8	769.3	769.3	781.9	788.2
60°	16023.2	10847.7	2146.5	1096.3	976.8	869.9	775.6	714.8	706.4	712.7	714.8
62.5°	17767.2	12009.0	2207.3	1090.0	997.8	842.7	723.2	660.3	645.6	643.5	639.3
65°	18536.5	11793.1	1809.0	1060.7	1020.8	825.9	681.3	607.9	582.7	574.4	574.4
67.5°	17283.0	9975.7	1360.4	1020.8	1006.2	809.1	641.4	563.9	534.5	517.8	517.8
69°	16104.9	8873.1	1222.1	993.6	968.4	781.9	616.3	540.8	505.2	486.3	480.0
70°	15195.2	8114.3	1163.4	970.5	932.8	750.4	597.4	524.0	484.2	463.3	459.1
72.5°	12126.4	6366.1	1018.7	882.5	794.5	631.0	530.3	471.6	433.9	410.9	404.6
75°	6988.7	3450.3	844.8	767.2	639.3	490.5	448.6	410.9	381.5	360.5	354.3
77.5°	2150.7	1333.2	612.1	605.8	469.5	379.4	358.4	343.8	322.8	299.8	295.6
80°	905.5	679.2	415.0	408.8	312.3	264.1	257.8	255.7	247.3	228.5	222.2
82.5°	496.8	383.6	289.3	251.5	188.7	153.0	159.3	161.4	155.1	136.3	123.7
85°	243.2	209.6	140.4	113.2	85.9	54.5	52.4	62.9	58.7	41.9	46.1
87.5°	48.2	58.7	37.7	16.8	8.4	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)