

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: P457797

Luminaire Tested: **GALN-SA9A-830-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457797  
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-SA9A-830-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 615mA 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: 32653 lumens  
Efficiency: N/A  
Efficacy: 119.2 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

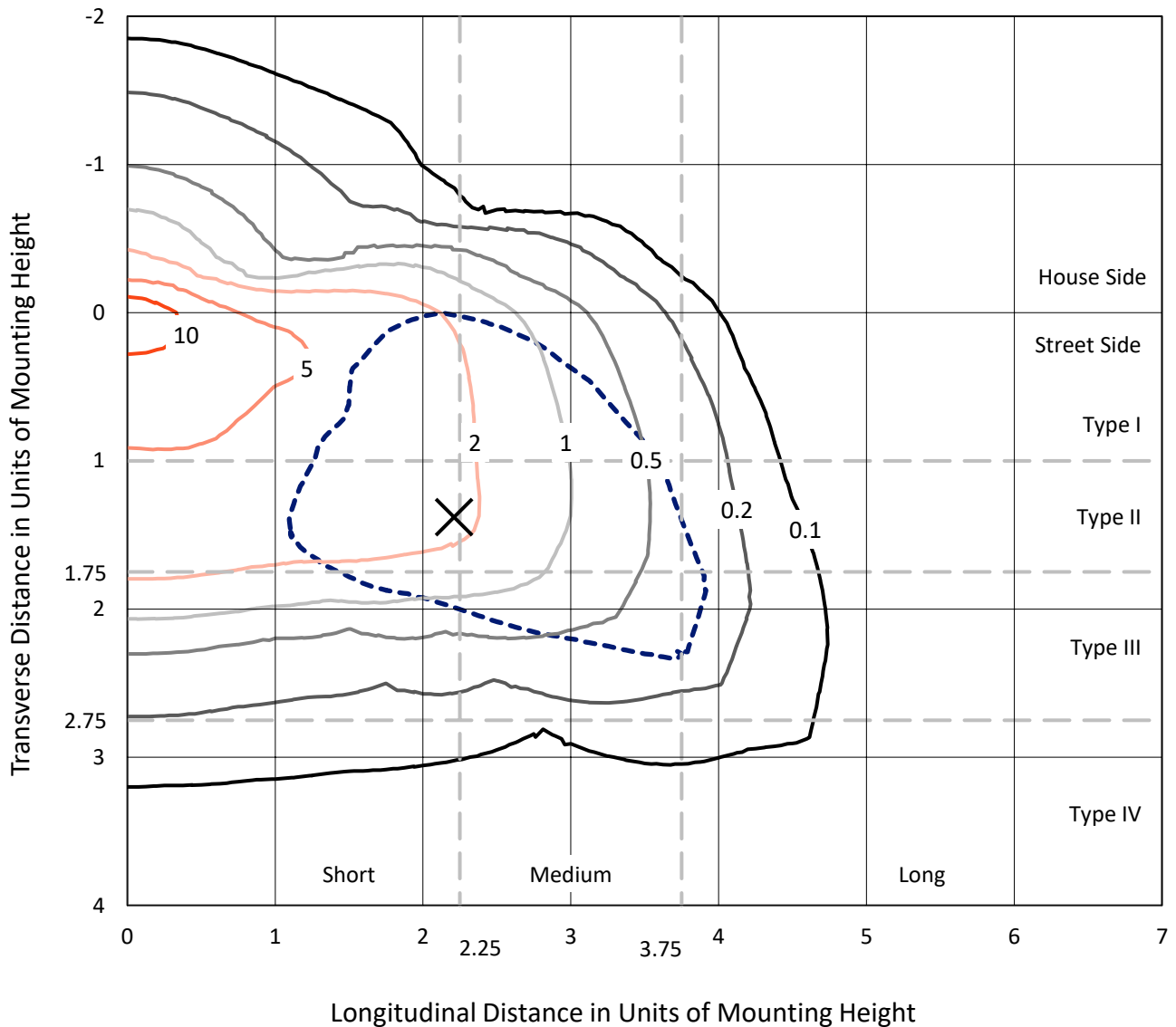
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

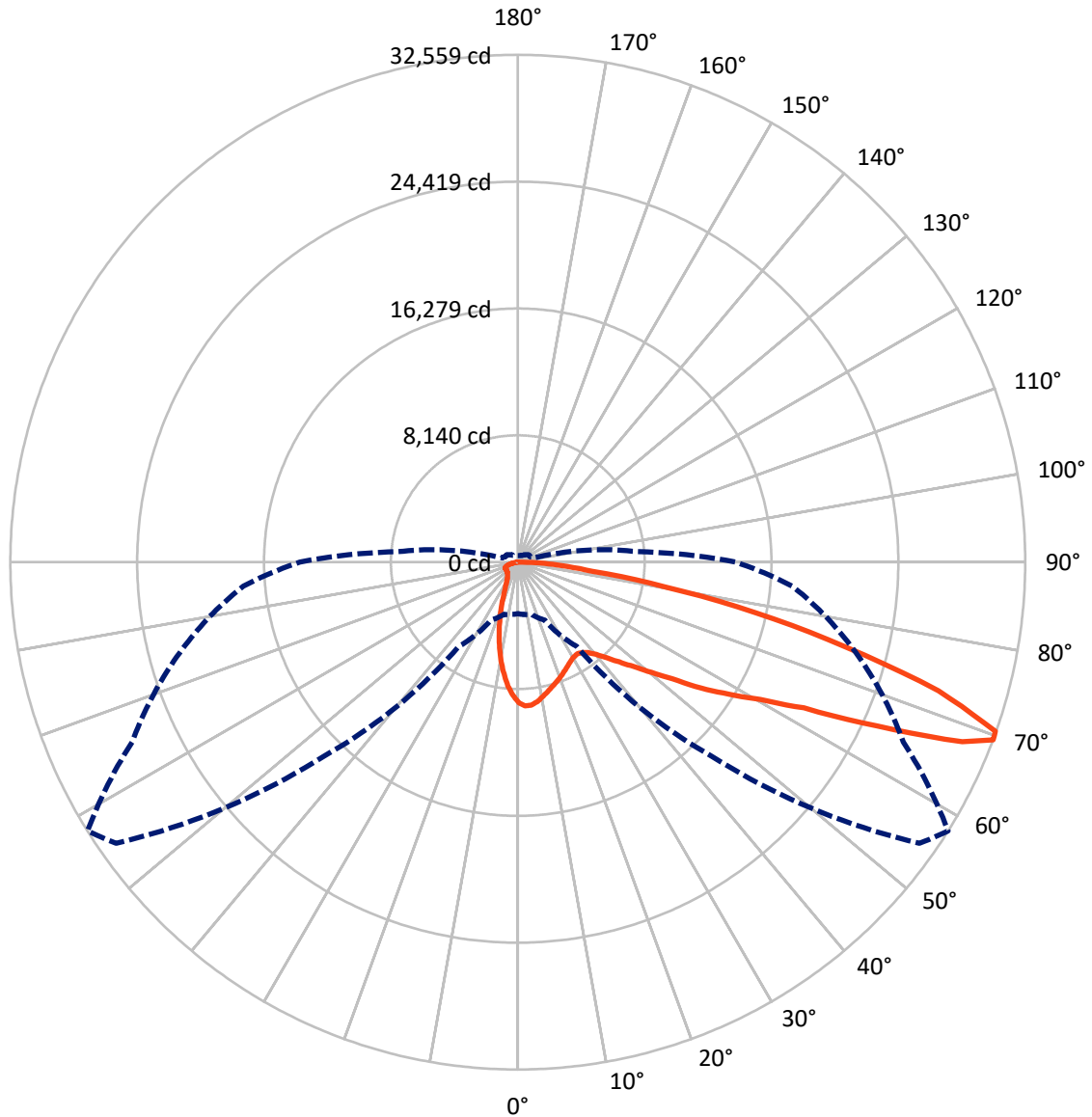
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	4785.3	0.0	4785.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	27867.7	0.0	27867.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	32653.0	0.0	32653.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	766.3	2.3
10°-20°	1682.7	5.2
20°-30°	2174.0	6.7
30°-40°	2823.7	8.6
40°-50°	4105.2	12.6
50°-60°	6550.5	20.1
60°-70°	8750.7	26.8
70°-80°	5044.4	15.4
80°-90°	755.5	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°	32653.0	100.0
0°-180°	32653.0	100.0



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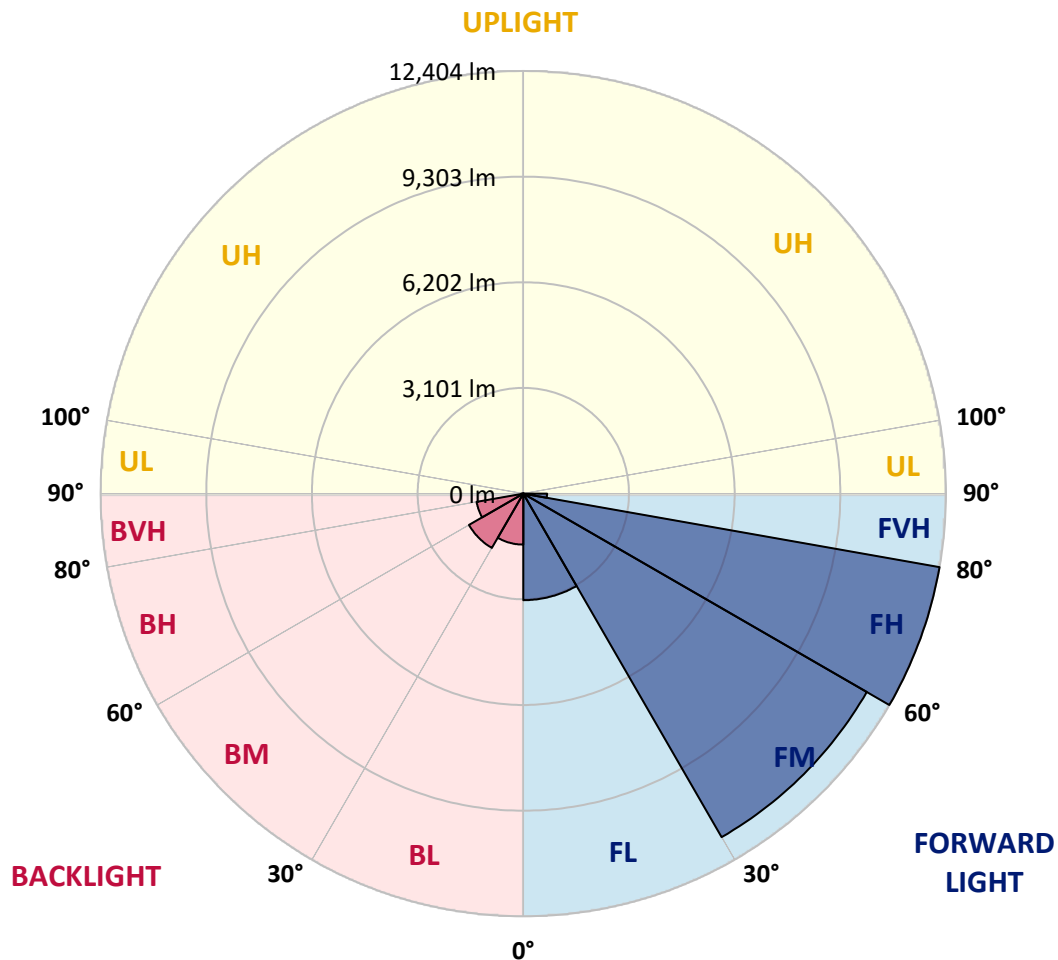
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3127.3	9.6			
FM	(30°-60°)	11639.1	35.6			
FH	(60°-80°)	12403.6	38.0			G5
FVH	(80°-90°)	697.7	2.1			G4/750
BL	(0°-30°)	1495.7	4.6	B3/2500		
BM	(30°-60°)	1840.3	5.6	B2/2500		
BH	(60°-80°)	1391.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	57.9	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°	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4
2.5°	9358.5	9383.9	9376.7	9367.6	9353.0	9312.9	9247.4	9236.4	9194.6	9105.3	8994.2
5°	9214.6	9236.4	9238.3	9251.0	9269.2	9261.9	9214.6	9209.1	9147.2	9027.0	8841.3
7.5°	8721.1	8750.2	8814.0	8885.0	8948.7	9008.8	9023.4	9032.5	8994.2	8855.8	8608.2
10°	8165.7	8194.8	8223.9	8329.6	8486.2	8635.5	8759.3	8775.7	8784.8	8657.3	8355.0
12.5°	7550.1	7610.2	7672.1	7828.8	8038.2	8273.1	8491.6	8526.2	8588.1	8491.6	8136.5
15°	7027.5	7089.4	7178.6	7318.9	7572.0	7910.7	8218.5	8274.9	8396.9	8347.8	7932.6
17.5°	6665.1	6687.0	6748.9	6909.1	7182.3	7539.2	7950.8	8063.7	8258.5	8245.8	7757.7
20°	6379.2	6406.5	6444.7	6543.1	6827.2	7204.1	7701.3	7847.0	8111.0	8154.7	7584.7
22.5°	6259.0	6279.0	6273.6	6326.4	6519.4	6898.2	7448.2	7621.2	7979.9	8092.8	7424.5
25°	6266.3	6284.5	6257.2	6244.4	6359.2	6628.7	7184.1	7404.5	7874.3	8050.9	7278.8
27.5°	6388.3	6401.0	6350.1	6299.1	6308.2	6461.1	6965.6	7209.6	7785.1	8069.1	7156.8
30°	6552.2	6575.9	6543.1	6481.2	6413.8	6421.1	6825.4	7065.7	7743.2	8132.9	7098.5
32.5°	6763.4	6785.3	6770.7	6721.6	6634.1	6537.6	6790.8	7012.9	7746.8	8262.2	7085.8
35°	6985.6	7029.3	7053.0	7049.3	6978.3	6810.8	6927.3	7111.3	7834.2	8478.9	7160.4
37.5°	7236.9	7273.3	7375.3	7440.9	7375.3	7180.5	7235.1	7362.6	8027.3	8792.1	7324.3
40°	7480.9	7535.6	7684.9	7888.9	7863.4	7692.2	7704.9	7788.7	8367.8	9258.3	7644.8
42.5°	7735.9	7801.4	8061.9	8364.2	8424.2	8291.3	8325.9	8400.6	8852.2	9904.8	8194.8
45°	8063.7	8142.0	8462.5	8839.4	9076.2	8994.2	9092.6	9129.0	9500.5	10746.1	8919.6
47.5°	8486.2	8577.2	8972.4	9442.2	9777.3	9852.0	10023.1	10001.3	10303.6	11742.2	9859.2
50°	9198.2	9249.2	9622.5	10101.4	10562.2	10899.1	11084.8	11119.4	11299.7	12711.0	10910.0
52.5°	10045.0	10090.5	10360.0	10778.9	11356.2	12070.0	12528.9	12416.0	12459.7	13891.1	12139.2
55°	10997.4	11073.9	11245.1	11523.7	12272.2	13322.9	14244.4	14271.7	13787.3	15020.1	13317.4
57.5°	11734.9	11864.2	12157.4	12554.4	13503.2	14716.0	15954.4	15972.6	15353.4	16225.7	14617.7
60°	11363.4	11516.4	12186.6	13153.6	15118.5	17147.1	17997.6	17893.8	16877.6	17598.8	16203.8
62.5°	9760.9	9788.2	10762.5	12274.0	15615.6	20399.6	21038.8	20599.9	18911.8	19339.7	17815.5
65°	6317.3	6495.7	7267.9	9385.8	13982.1	22204.2	26367.2	25352.9	21763.5	21315.6	19164.9
67.5°	3988.1	3942.6	4263.1	5359.4	9617.0	20614.5	30914.4	30754.1	25493.1	22563.0	18842.6
69°	3307.1	3358.0	3467.3	4108.3	6617.8	17600.6	31451.6	32558.8	27301.4	22464.7	17671.6
70°	2999.3	3023.0	3137.7	3642.1	5106.3	14741.5	30570.2	32509.7	28011.6	22053.1	16823.0
72.5°	2380.1	2378.3	2575.0	3030.3	3817.0	8415.1	25101.6	28224.7	27217.6	20137.3	13900.2
75°	1808.3	1837.5	2054.2	2564.1	3516.5	4598.2	17516.8	21736.2	21738.1	15905.2	8673.7
77.5°	1303.9	1322.1	1575.2	2152.5	3312.5	3727.7	11667.6	15590.1	14655.9	7287.9	2726.1
80°	854.1	865.0	1058.0	1704.5	2986.5	3516.5	6918.2	9542.4	6912.8	1934.0	901.4
82.5°	468.0	522.6	646.5	1103.6	2396.5	3248.8	4204.8	4829.5	2593.2	861.4	469.8
85°	234.9	249.5	364.2	644.7	1566.1	2687.9	2928.3	2769.8	1338.5	428.0	244.0
87.5°	69.2	87.4	151.1	249.5	635.6	1400.4	1629.9	1462.3	515.4	154.8	51.0
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°	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4	9023.4
2.5°	8948.7	8915.9	8770.2	8639.1	8518.9	8391.5	8284.0	8189.3	8198.4	8200.3	8103.7
5°	8744.8	8670.1	8393.3	8134.7	7916.2	7639.4	7402.6	7249.7	7173.2	7071.2	7107.6
7.5°	8468.0	8324.1	7939.8	7510.1	7107.6	6748.9	6359.2	6091.5	5920.3	5754.6	5776.4
10°	8182.0	7950.8	7391.7	6823.5	6302.7	5729.1	5231.9	4805.8	4488.9	4370.6	4292.3
12.5°	7888.9	7584.7	6874.5	6118.8	5399.5	4712.9	4008.2	3551.1	3201.4	3015.7	3039.4
15°	7621.2	7251.5	6335.5	5414.0	4479.8	3662.2	2959.2	2524.0	2280.0	2229.0	2258.1
17.5°	7373.5	6889.1	5831.1	4729.3	3638.5	2746.2	2223.5	1977.7	1879.3	1852.0	1850.2
20°	7118.5	6581.3	5264.7	3997.2	2835.4	2128.8	1824.7	1710.0	1691.8	1702.7	1704.5
22.5°	6860.0	6200.7	4682.0	3270.6	2258.1	1740.9	1595.3	1564.3	1578.9	1604.4	1608.0
25°	6621.4	5865.7	4121.1	2633.3	1802.9	1529.7	1458.7	1458.7	1491.5	1529.7	1531.5
27.5°	6424.7	5541.5	3562.0	2090.6	1509.7	1376.7	1353.1	1365.8	1411.3	1440.5	1442.3
30°	6262.6	5239.2	3033.9	1675.4	1327.6	1254.7	1249.3	1271.1	1303.9	1331.2	1333.0
32.5°	6140.6	4973.3	2540.4	1407.7	1201.9	1161.8	1160.0	1176.4	1194.6	1201.9	1209.2
35°	6093.3	4753.0	2088.8	1238.3	1118.1	1092.6	1092.6	1090.8	1098.1	1101.7	1105.4
37.5°	6131.5	4583.6	1739.1	1129.1	1056.2	1038.0	1027.1	1016.2	1012.5	1012.5	1014.3
40°	6293.6	4494.4	1478.7	1058.0	1012.5	985.2	965.2	952.4	939.7	943.3	947.0
42.5°	6637.8	4510.8	1302.1	1010.7	974.3	936.0	906.9	892.3	883.2	894.1	892.3
45°	7185.9	4674.7	1189.2	977.9	936.0	886.9	859.5	845.0	845.0	861.4	866.8
47.5°	7952.6	4987.9	1129.1	952.4	906.9	848.6	821.3	810.4	814.0	841.3	843.2
50°	8888.6	5532.4	1118.1	939.7	892.3	821.3	790.3	779.4	788.5	817.7	821.3
52.5°	9921.2	6233.5	1170.9	941.5	879.6	804.9	764.8	748.5	757.6	781.2	788.5
55°	11144.9	7111.3	1307.5	948.8	861.4	795.8	746.6	710.2	721.1	737.5	739.4
57.5°	12394.2	8218.5	1547.9	950.6	846.8	779.4	715.7	668.3	668.3	679.3	684.7
60°	13920.2	9424.0	1864.8	952.4	848.6	755.7	673.8	621.0	613.7	619.2	621.0
62.5°	15435.3	10432.9	1917.6	947.0	866.8	732.1	628.3	573.6	560.9	559.1	555.4
65°	16103.7	10245.3	1571.6	921.5	886.9	717.5	591.8	528.1	506.3	499.0	499.0
67.5°	15014.7	8666.4	1181.9	886.9	874.1	702.9	557.2	489.9	464.4	449.8	449.8
69°	13991.2	7708.6	1061.7	863.2	841.3	679.3	535.4	469.8	438.9	422.5	417.0
70°	13200.9	7049.3	1010.7	843.2	810.4	651.9	519.0	455.3	420.7	402.5	398.8
72.5°	10534.9	5530.6	885.0	766.7	690.2	548.1	460.7	409.7	377.0	356.9	351.5
75°	6071.4	2997.5	733.9	666.5	555.4	426.1	389.7	356.9	331.4	313.2	307.8
77.5°	1868.4	1158.2	531.8	526.3	407.9	329.6	311.4	298.7	280.4	260.4	256.8
80°	786.7	590.0	360.6	355.1	271.3	229.5	224.0	222.2	214.9	198.5	193.0
82.5°	431.6	333.3	251.3	218.5	163.9	132.9	138.4	140.2	134.8	118.4	107.4
85°	211.2	182.1	122.0	98.3	74.7	47.3	45.5	54.6	51.0	36.4	40.1
87.5°	41.9	51.0	32.8	14.6	7.3	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)