

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: P534245

Luminaire Tested: **GALN-SA9D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34598 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

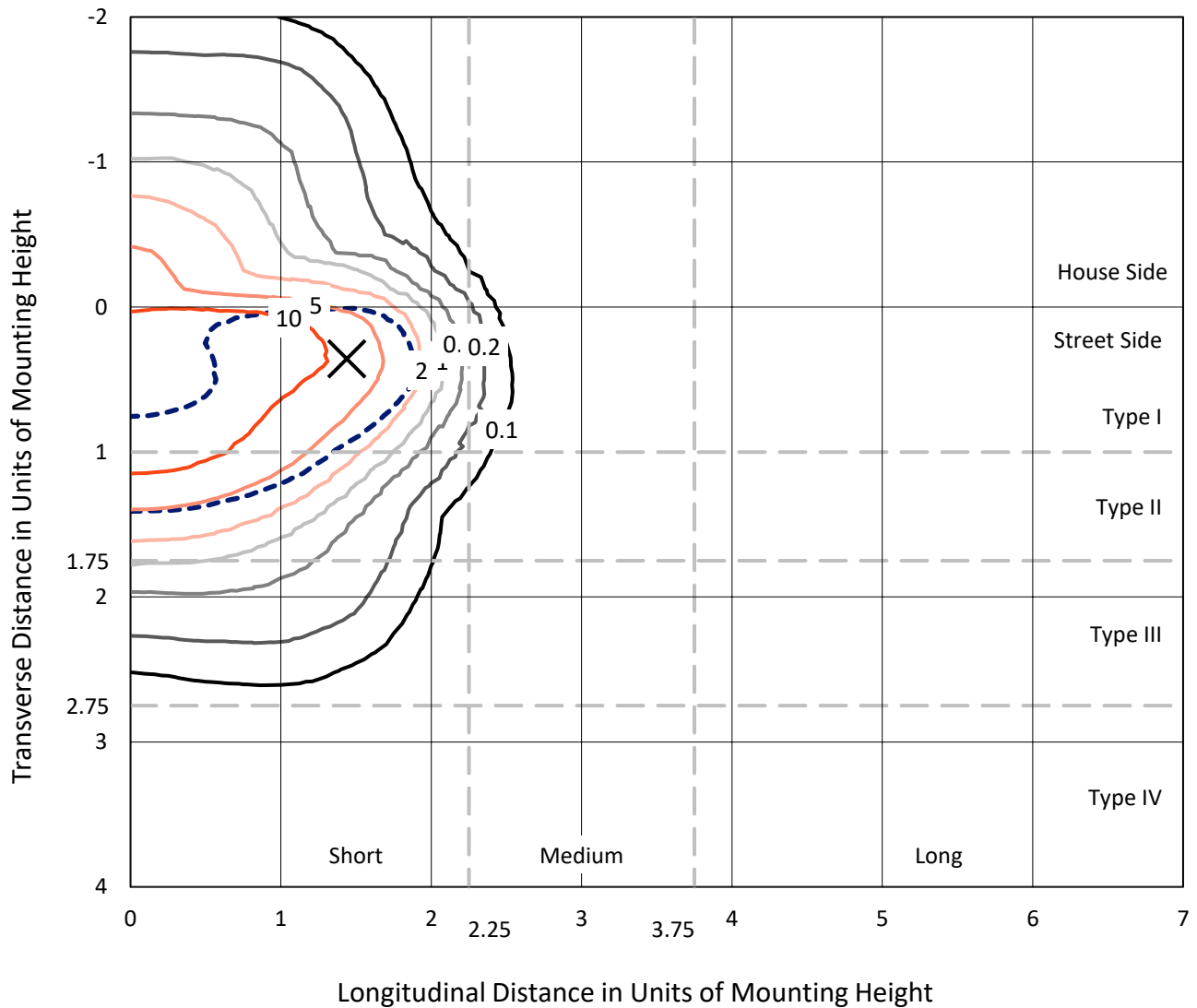
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

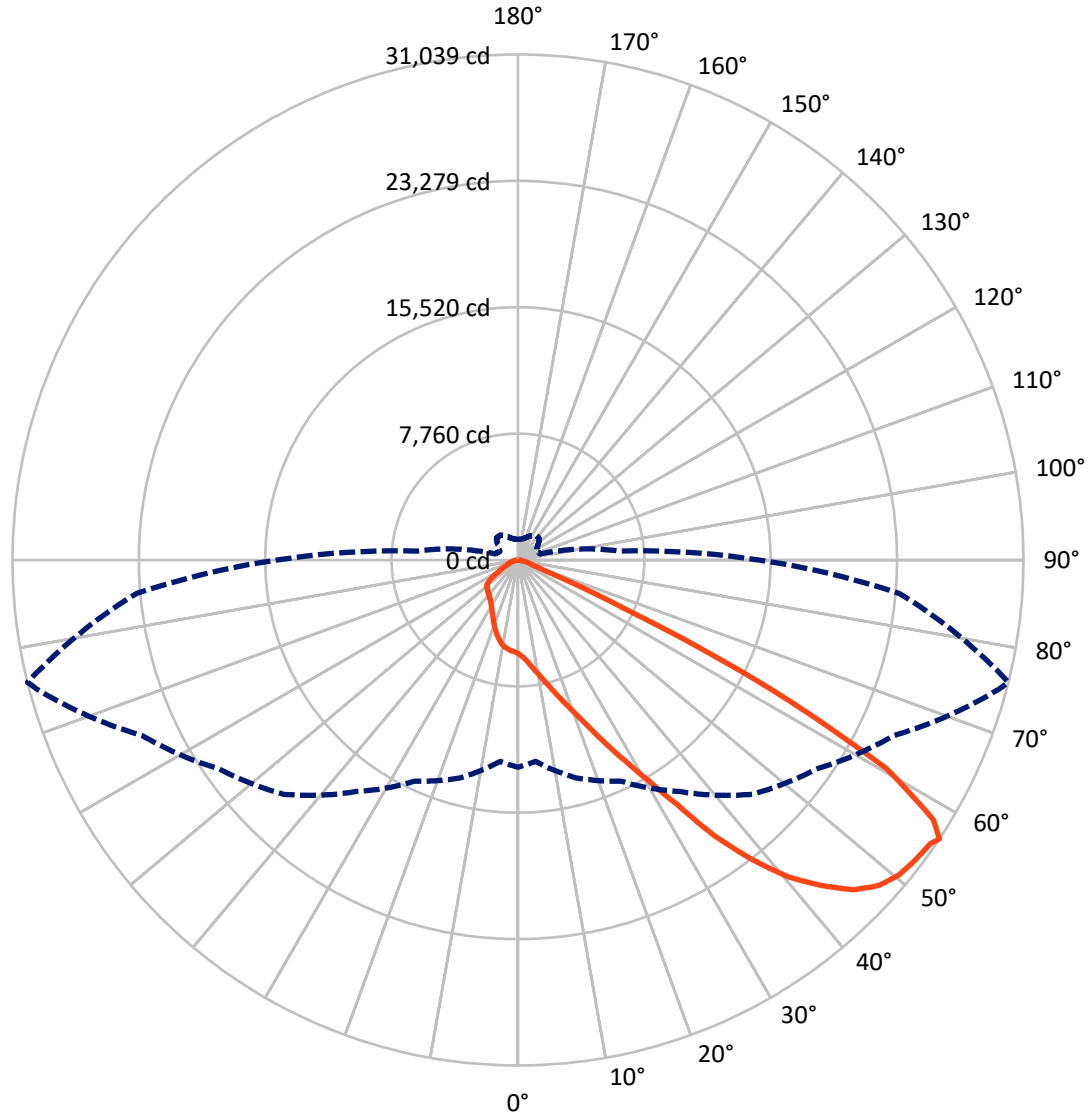
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9D-727-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5435.2	0.0	5435.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	29162.8	0.0	29162.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	34598.0	0.0	34598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.1	1.7
10°-20°	1863.7	5.4
20°-30°	3379.4	9.8
30°-40°	5828.0	16.8
40°-50°	9467.8	27.4
50°-60°	9979.4	28.8
60°-70°	3049.1	8.8
70°-80°	390.9	1.1
80°-90°	59.4	0.2
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°	34598.0	100.0
0°-180°	34598.0	100.0

Coefficient of Utilization

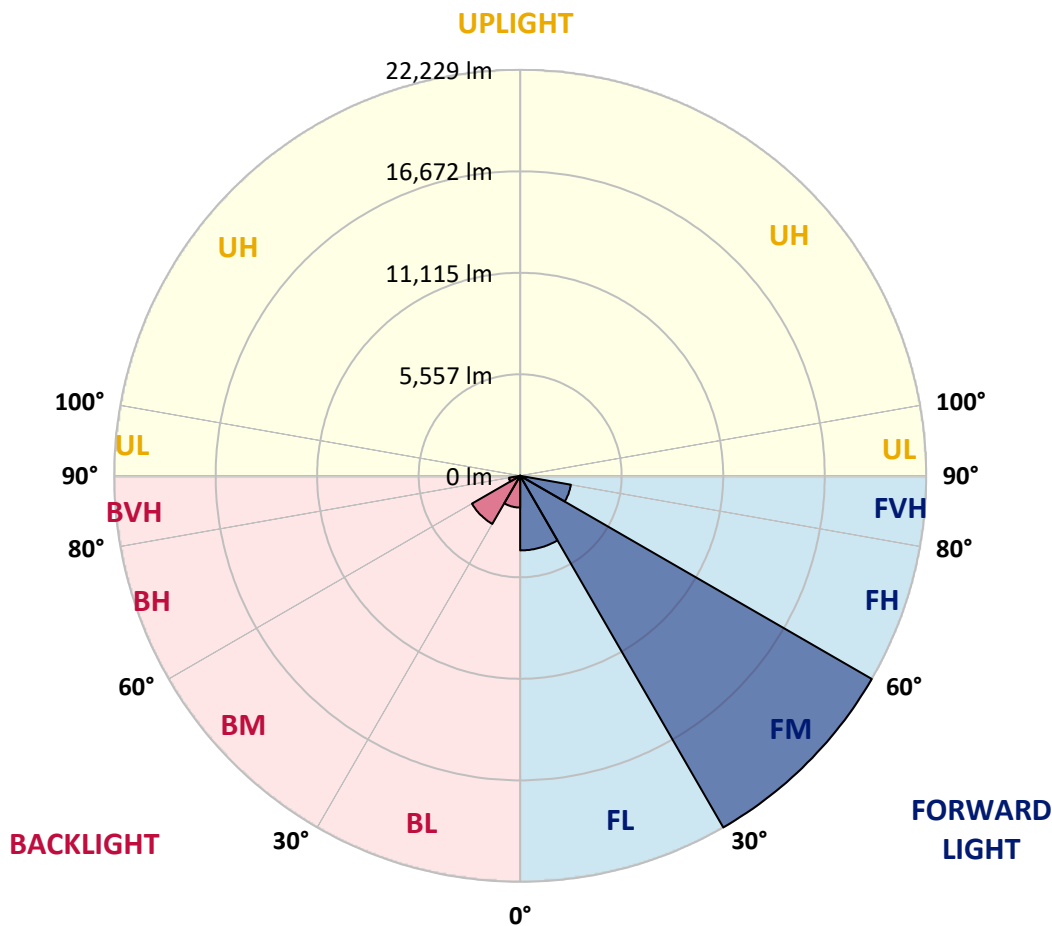


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4084.6	11.8			
FM (30°-60°)	22229.2	64.2			
FH (60°-80°)	2820.0	8.2			G2/5000
FVH (80°-90°)	29.1	0.1			G1/100
BL (0°-30°)	1738.7	5.0	B3/2500		
BM (30°-60°)	3046.1	8.8	B3/5000		
BH (60°-80°)	620.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	30.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9
2.5°	6632.6	6479.5	6485.9	6473.2	6454.0	6383.9	6173.4	6141.5	6001.2	5963.0	5835.4
5°	7429.8	7295.9	7372.4	7257.6	7149.2	7085.4	6741.0	6581.6	6358.4	6275.5	6096.9
7.5°	7927.2	7863.5	7838.0	7844.3	7742.3	7582.9	7429.8	7079.0	6779.3	6715.5	6339.2
10°	8169.6	8131.3	8169.6	8150.5	8195.1	8214.2	7946.4	7735.9	7295.9	7187.5	6600.7
12.5°	8227.0	8303.5	8335.4	8418.3	8526.7	8711.7	8692.5	8405.6	7818.8	7748.7	7002.5
15°	8367.3	8431.1	8399.2	8533.1	8737.2	9049.7	9215.5	9170.9	8539.5	8411.9	7468.1
17.5°	8494.8	8380.0	8488.5	8756.3	8960.4	9438.7	9840.5	10025.4	9323.9	9177.2	7895.4
20°	8667.0	8635.1	8616.0	8749.9	9113.5	9751.2	10548.4	10886.4	10204.0	10051.0	8507.6
22.5°	9190.0	9196.4	9183.6	8985.9	9247.4	9968.0	11167.0	12002.5	11256.3	11128.8	9202.7
25°	9878.8	9795.9	9732.1	9572.6	9540.8	10165.7	11792.0	13367.3	12519.0	12429.8	9955.3
27.5°	10605.8	10605.8	10414.5	10267.8	10063.7	10656.8	12366.0	14693.8	14043.3	13922.1	10612.2
30°	11396.6	11441.2	11415.7	11103.2	10975.7	11192.5	12952.7	16390.2	15790.7	15637.6	11696.3
32.5°	12563.7	12468.0	12576.4	12315.0	11938.7	12130.0	13877.5	17908.0	18061.1	17844.3	13118.5
35°	14107.0	14049.6	13979.5	13552.2	13105.8	13258.8	15184.8	19776.7	20911.8	20803.4	14553.5
37.5°	15491.0	15459.1	15401.7	15108.3	14591.7	14776.7	16670.8	21721.8	23692.4	23335.3	16581.5
40°	16945.0	17117.2	16932.3	16670.8	16198.9	16607.0	18418.2	22876.1	26033.0	25599.3	18131.3
42.5°	18915.7	18781.8	18864.7	18386.4	18131.3	18577.7	20172.1	24030.4	27850.6	27334.0	19776.7
45°	21013.9	21020.3	20797.1	20644.0	19980.7	20465.4	21249.9	24668.2	29298.3	28896.5	21020.3
47.5°	22359.5	22353.2	22595.5	22837.9	22155.5	21677.1	21983.3	25274.1	30044.4	29859.5	21473.1
50°	22149.1	22212.9	22525.4	23431.0	23788.1	23144.0	22672.0	25095.5	30382.4	30363.3	21862.1
52.5°	19266.4	19476.9	19999.9	21307.3	23105.7	23902.9	23392.7	25427.1	30548.3	30580.1	22442.4
55°	14668.3	14783.1	15778.0	17366.0	19355.7	22085.3	23105.7	25688.6	30675.8	30733.2	23144.0
56°	12723.1	12417.0	13851.9	14980.8	17359.6	20344.2	22378.7	25484.5	30599.3	31039.3	23494.7
57.5°	9604.5	9400.4	10561.2	11970.6	14260.1	17410.6	20121.0	24521.5	30082.7	30076.3	22990.9
60°	5841.8	5637.7	6530.6	7359.6	8641.5	10720.6	13596.8	19527.9	25433.5	25969.2	18615.9
62.5°	3475.7	3603.3	4483.4	4987.2	5401.7	5618.6	7034.4	11607.1	16970.5	17353.2	11549.7
65°	2315.0	2359.7	3022.9	3852.0	4037.0	3214.3	2863.5	4700.2	7359.6	7123.7	4764.0
67.5°	1428.6	1530.6	2028.0	2895.4	3207.9	2346.9	1358.4	1753.8	2028.0	2028.0	1377.5
70°	867.3	918.4	1352.0	1970.6	2200.2	1511.5	988.5	988.5	975.8	956.6	822.7
72.5°	414.5	446.4	688.8	1014.0	1033.2	797.2	765.3	835.5	816.3	809.9	682.4
75°	178.6	191.3	242.3	318.9	363.5	338.0	465.6	599.5	618.6	599.5	491.1
77.5°	57.4	63.8	89.3	114.8	121.2	146.7	197.7	248.7	287.0	267.9	242.3
80°	6.4	12.8	25.5	57.4	89.3	114.8	146.7	165.8	184.9	184.9	172.2
82.5°	6.4	6.4	25.5	51.0	82.9	108.4	140.3	159.4	184.9	191.3	178.6
85°	0.0	6.4	19.1	44.6	70.2	70.2	63.8	63.8	44.6	44.6	44.6
87.5°	0.0	0.0	6.4	6.4	6.4	12.8	12.8	12.8	12.8	12.8	12.8
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°	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9
2.5°	5809.9	5797.2	5625.0	5516.5	5459.1	5344.4	5274.2	5223.2	5184.9	5140.3	5146.6
5°	5886.4	5841.8	5554.8	5357.1	5121.1	4993.6	4885.2	4795.9	4738.5	4725.7	4700.2
7.5°	6103.3	5867.3	5433.6	5076.5	4776.8	4649.2	4553.5	4496.1	4521.7	4464.3	4508.9
10°	6269.1	5918.3	5287.0	4770.4	4470.6	4375.0	4323.9	4368.6	4432.4	4406.9	4375.0
12.5°	6473.2	5969.3	5051.0	4477.0	4196.4	4126.2	4215.5	4298.4	4426.0	4477.0	4413.2
15°	6702.8	6026.7	4751.2	4139.0	3960.4	4017.8	4170.9	4317.6	4445.1	4508.9	4547.2
17.5°	6983.4	6007.6	4457.9	3871.1	3737.2	3903.0	4088.0	4221.9	4413.2	4508.9	4483.4
20°	7244.8	5943.8	4132.6	3603.3	3609.7	3762.7	3915.8	4132.6	4234.7	4362.2	4317.6
22.5°	7493.6	5829.0	3794.6	3418.3	3418.3	3654.3	3730.8	3871.1	3960.4	4024.2	4017.8
25°	7844.3	5612.2	3514.0	3239.8	3316.3	3469.4	3533.1	3577.8	3539.5	3590.5	3596.9
27.5°	8093.1	5389.0	3284.4	3080.3	3220.6	3335.4	3316.3	3290.8	3201.5	3131.4	3176.0
30°	8360.9	5127.5	3086.7	2971.9	3048.4	3150.5	3074.0	2997.4	2857.1	2742.3	2748.7
32.5°	8743.6	5006.3	2914.5	2844.4	2946.4	2959.2	2876.3	2761.5	2621.2	2512.7	2506.4
35°	9457.8	4929.8	2767.8	2761.5	2780.6	2787.0	2704.1	2563.8	2506.4	2417.1	2449.0
37.5°	10172.1	4891.5	2665.8	2640.3	2633.9	2640.3	2544.6	2410.7	2519.1	2512.7	2525.5
40°	11084.1	5063.7	2519.1	2487.2	2493.6	2493.6	2372.4	2334.2	2525.5	2544.6	2551.0
42.5°	12008.8	5280.6	2423.5	2321.4	2346.9	2346.9	2283.1	2238.5	2372.4	2244.9	2225.8
45°	12812.4	5599.5	2321.4	2155.6	2219.4	2251.3	2232.1	2155.6	2072.7	1855.9	1855.9
47.5°	13073.9	5880.1	2200.2	1996.2	2047.2	2187.5	2130.1	1970.6	1824.0	1645.4	1632.6
50°	13533.1	6186.2	2104.6	1811.2	1919.6	2091.8	2034.4	1875.0	1709.2	1581.6	1588.0
52.5°	14005.0	6536.9	1926.0	1594.4	1728.3	2015.3	2015.3	1836.7	1581.6	1492.3	1479.6
55°	14712.9	6524.2	1607.1	1307.4	1543.4	1900.5	1932.4	1645.4	1415.8	1345.7	1345.7
56°	14814.9	6230.8	1447.7	1224.5	1460.4	1868.6	1875.0	1594.4	1352.0	1275.5	1275.5
57.5°	14049.6	5625.0	1269.1	1122.4	1358.4	1811.2	1817.6	1549.7	1301.0	1192.6	1179.8
60°	10809.9	3807.4	1058.7	1001.3	1230.9	1632.6	1664.5	1409.4	1141.6	1058.7	1052.3
62.5°	6103.3	2111.0	931.1	905.6	1058.7	1390.3	1486.0	1230.9	969.4	924.7	937.5
65°	2787.0	1160.7	784.4	733.4	854.6	1071.4	1199.0	1014.0	797.2	746.2	746.2
67.5°	1020.4	790.8	669.6	580.4	599.5	695.1	778.1	656.9	529.3	452.8	471.9
70°	727.0	663.3	586.7	503.8	465.6	452.8	446.4	369.9	261.5	204.1	216.8
72.5°	586.7	548.5	491.1	427.3	363.5	306.1	261.5	191.3	121.2	82.9	76.5
75°	420.9	401.8	357.1	306.1	255.1	216.8	178.6	121.2	63.8	31.9	31.9
77.5°	216.8	216.8	210.5	191.3	159.4	127.6	102.0	70.2	38.3	12.8	12.8
80°	165.8	178.6	184.9	165.8	146.7	114.8	82.9	51.0	25.5	6.4	6.4
82.5°	159.4	184.9	197.7	172.2	146.7	108.4	82.9	51.0	25.5	6.4	6.4
85°	38.3	38.3	57.4	63.8	82.9	89.3	70.2	44.6	19.1	6.4	6.4
87.5°	12.8	12.8	12.8	12.8	12.8	12.8	6.4	6.4	6.4	6.4	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)