

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: P531726

Luminaire Tested: **GALN-SA7A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26074 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

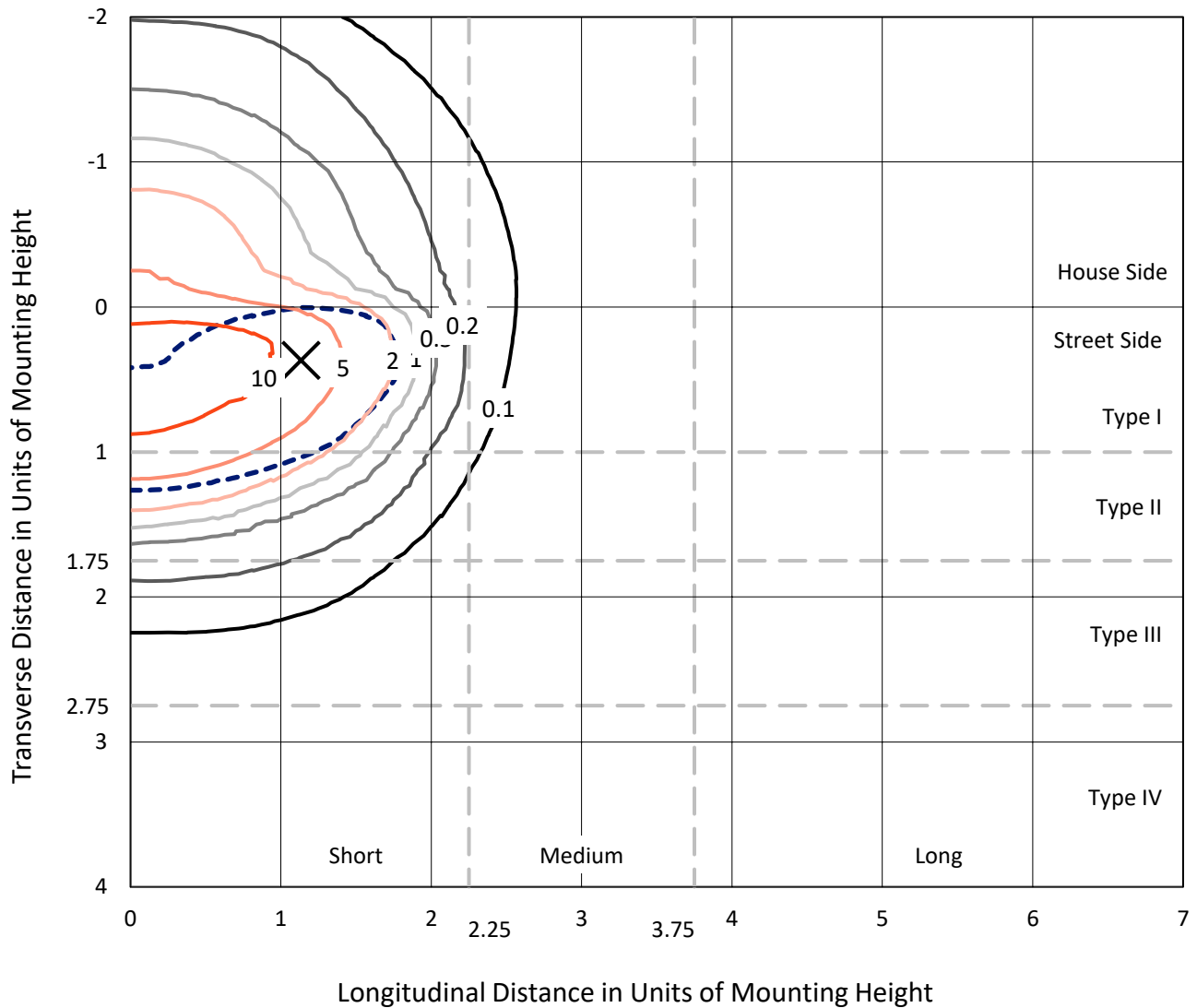
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531726
 CATALOG NUMBER: GALN-SA7A-735-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

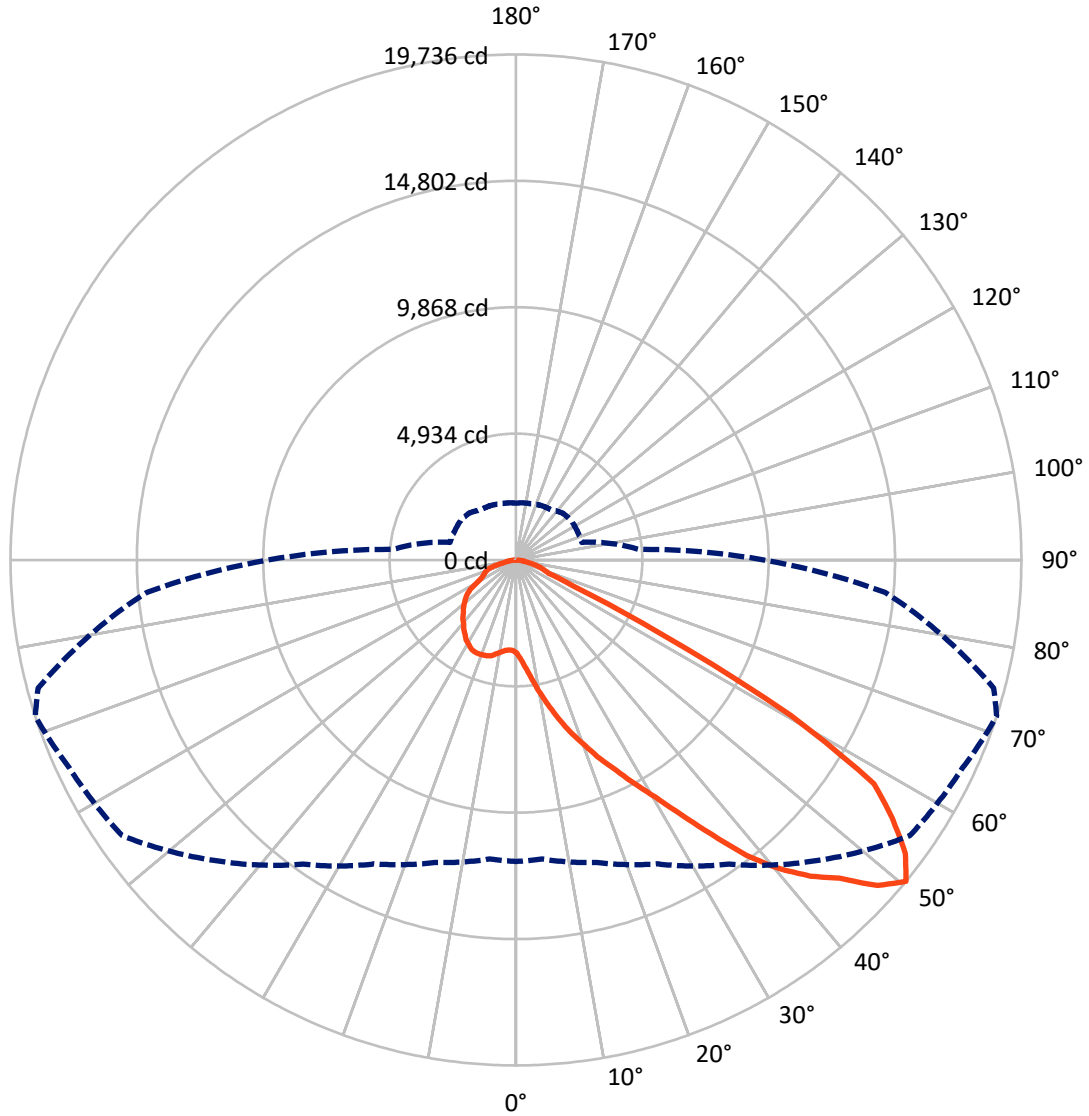
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

REPORT NUMBER: P531726
CATALOG NUMBER: GALN-SA7A-735-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P531726
 CATALOG NUMBER: GALN-SA7A-735-U-T2R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5973.7	0.0	5973.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20100.3	0.0	20100.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	26074.0	0.0	26074.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	1.6
10°-20°	1596.1	6.1
20°-30°	3094.7	11.9
30°-40°	5126.8	19.7
40°-50°	7173.5	27.5
50°-60°	6051.8	23.2
60°-70°	1844.6	7.1
70°-80°	647.1	2.5
80°-90°	112.5	0.4
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°	26074.0	100.0
0°-180°	26074.0	100.0

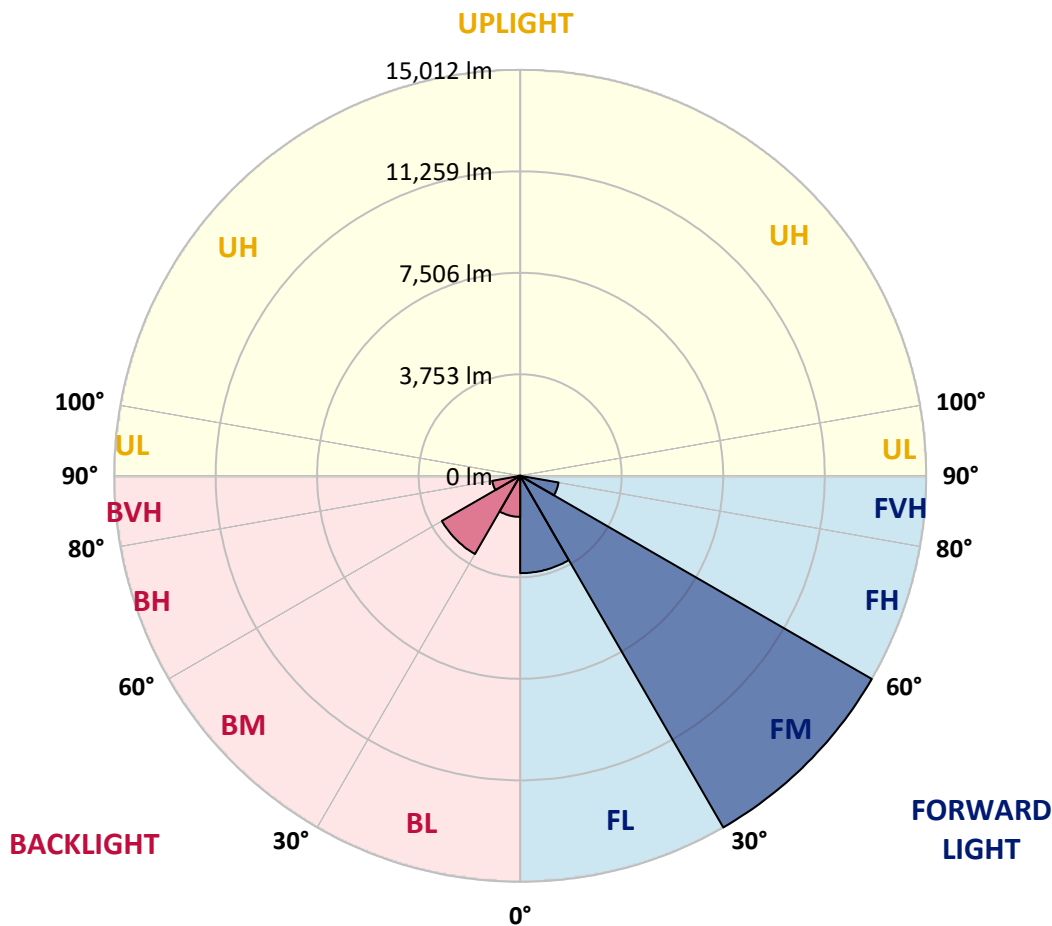


REPORT NUMBER: P531726
 CATALOG NUMBER: GALN-SA7A-735-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3599.1	13.8			
FM (30°-60°)	15011.5	57.6			
FH (60°-80°)	1439.2	5.5			G1/1800
FVH (80°-90°)	50.4	0.2			G1/100
BL (0°-30°)	1518.5	5.8	B3/2500		
BM (30°-60°)	3340.6	12.8	B3/5000		
BH (60°-80°)	1052.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	62.1	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-G3
 Type II Short





REPORT NUMBER: P531726

CATALOG NUMBER: GALN-SA7A-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7
2.5°	4668.6	4639.6	4552.5	4523.4	4420.2	4233.1	4168.5	3978.2	3897.5	3823.3	3736.2
5°	5904.3	5768.8	5759.2	5594.6	5355.9	5217.1	4804.1	4526.7	4271.8	4142.7	3904.0
7.5°	6691.6	6694.8	6694.8	6559.3	6369.0	6017.3	5646.2	5146.1	4762.2	4571.8	4165.3
10°	7440.1	7375.6	7340.1	7327.2	7198.1	6856.1	6459.3	5839.8	5313.9	5091.3	4362.1
12.5°	7969.3	7914.4	7995.1	7953.1	7859.6	7636.9	7262.7	6556.1	5897.9	5597.8	4678.3
15°	8220.9	8259.6	8324.2	8440.3	8398.4	8314.5	7901.5	7291.7	6527.0	6188.3	4959.0
17.5°	8608.1	8501.6	8579.1	8724.2	8840.4	8801.7	8566.1	7824.1	7149.7	6733.5	5336.5
20°	8879.1	8817.8	8856.5	9024.3	9111.4	9330.8	9208.2	8521.0	7746.6	7307.8	5781.7
22.5°	9653.5	9563.1	9437.3	9463.1	9495.4	9650.2	9679.3	9285.6	8440.3	7975.7	6204.4
25°	10608.5	10524.6	10376.2	10224.5	10131.0	10101.9	10201.9	9885.8	9105.0	8624.2	6659.3
27.5°	11660.3	11518.3	11424.8	11111.8	10860.1	10821.4	10773.0	10602.0	9892.2	9372.8	7172.3
30°	12683.1	12570.1	12444.3	11944.2	11682.9	11640.9	11402.2	11450.6	10747.2	10169.7	7753.1
32.5°	13457.4	13467.1	13179.9	12802.4	12557.2	12334.6	12247.5	12386.2	11844.2	11379.6	8401.6
35°	14083.3	14112.4	13838.1	13496.1	13231.6	13386.4	13347.7	13412.2	13154.1	12586.3	9156.6
37.5°	14693.1	14547.9	14254.3	14089.8	13951.0	14205.9	14535.0	14589.9	14638.3	13970.4	10034.2
40°	14793.1	14806.0	14635.0	14751.2	14577.0	14960.9	15725.6	15654.6	15851.4	15267.4	10986.0
42.5°	14651.2	14680.2	14748.0	14912.5	15332.0	15793.3	16929.0	16638.7	16877.4	16358.0	11911.9
45°	14418.9	14299.5	14383.4	15009.3	15735.3	16761.3	18029.2	17803.4	17726.0	17290.4	13015.4
47.5°	13309.0	13431.6	13692.9	14464.0	15554.6	16929.0	18810.0	18758.4	18990.7	18684.2	14018.8
50°	11770.0	11721.6	12224.9	13092.8	14499.5	16599.9	18768.1	19235.9	19736.0	19310.1	14467.3
52.5°	8814.6	9072.7	9505.0	10582.7	12589.5	14806.0	17851.8	18632.6	19039.1	18948.8	14105.9
55°	5572.0	5649.5	5910.8	7191.7	8998.5	11882.9	15302.9	17112.9	17838.9	18177.7	13773.6
57.5°	2707.0	2561.8	2881.2	3910.4	5197.8	7991.8	11802.2	14906.1	16483.8	17096.8	13050.9
60°	1413.2	1468.0	1593.9	1961.7	2687.6	4149.2	7356.2	9934.1	12344.3	13286.4	9892.2
62.5°	1171.2	1190.5	1274.4	1458.3	1787.4	2387.6	3755.6	4842.9	6294.7	7143.3	5626.9
65°	993.7	1003.4	1093.8	1216.4	1426.1	1681.0	1932.6	2023.0	2448.9	2513.4	2000.4
67.5°	829.2	838.9	935.7	1051.8	1187.3	1255.1	1319.6	1313.2	1361.5	1342.2	1339.0
70°	638.8	648.5	748.5	871.1	938.9	900.2	1100.2	1145.4	1164.7	1180.9	1206.7
72.5°	461.4	480.7	558.2	645.3	609.8	700.1	906.6	974.4	1000.2	1009.9	1042.1
75°	335.5	342.0	361.4	335.5	387.2	487.2	638.8	722.7	755.0	764.7	813.1
77.5°	148.4	151.6	154.9	193.6	248.4	303.3	380.7	448.5	493.6	506.5	519.5
80°	77.4	80.7	100.0	132.3	177.5	222.6	277.5	316.2	345.2	348.5	361.4
82.5°	48.4	51.6	71.0	93.6	125.8	164.5	203.3	235.5	258.1	261.3	264.6
85°	22.6	29.0	41.9	58.1	83.9	106.5	109.7	93.6	100.0	103.2	96.8
87.5°	6.5	9.7	12.9	9.7	12.9	12.9	16.1	19.4	19.4	19.4	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531726

CATALOG NUMBER: GALN-SA7A-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7
2.5°	3687.8	3658.8	3545.8	3503.9	3394.2	3413.6	3355.5	3352.3	3339.3	3336.1	3332.9
5°	3778.1	3687.8	3552.3	3449.0	3387.7	3381.3	3339.3	3339.3	3352.3	3361.9	3339.3
7.5°	3926.6	3823.3	3594.2	3497.4	3442.6	3432.9	3403.9	3381.3	3410.3	3400.6	3374.8
10°	4097.6	3916.9	3674.9	3591.0	3500.7	3478.1	3478.1	3487.8	3439.4	3455.5	3429.7
12.5°	4287.9	4045.9	3778.1	3681.3	3574.9	3562.0	3555.5	3484.5	3510.3	3497.4	3432.9
15°	4529.9	4194.3	3910.4	3745.9	3655.5	3597.5	3513.6	3500.7	3484.5	3452.3	3423.2
17.5°	4791.2	4355.7	3971.7	3765.2	3629.7	3587.8	3523.3	3455.5	3407.1	3413.6	3391.0
20°	5013.9	4504.1	3994.3	3784.6	3610.4	3529.7	3429.7	3387.7	3336.1	3332.9	3329.7
22.5°	5278.4	4704.1	4026.6	3733.0	3552.3	3468.4	3400.6	3326.4	3290.9	3245.8	3268.4
25°	5594.6	4781.6	4033.0	3703.9	3510.3	3361.9	3326.4	3245.8	3232.9	3168.3	3181.3
27.5°	5823.7	4823.5	3981.4	3613.6	3413.6	3300.6	3236.1	3178.0	3155.4	3107.0	3094.1
30°	6130.2	4888.0	3871.7	3500.7	3316.8	3190.9	3152.2	3139.3	3074.8	3023.2	3016.7
32.5°	6478.7	4930.0	3800.7	3384.5	3216.7	3119.9	3139.3	3078.0	2997.3	2952.2	2939.3
35°	6756.1	4946.1	3623.3	3252.2	3149.0	3087.7	3065.1	3052.2	2936.0	2894.1	2861.8
37.5°	7178.8	4910.6	3474.9	3158.7	3074.8	3052.2	3032.8	2945.7	2813.4	2752.1	2707.0
40°	7672.4	4900.9	3284.5	3026.4	3003.8	3029.6	2971.5	2836.0	2652.1	2584.4	2552.1
42.5°	8146.7	4968.7	3165.1	2955.4	2926.4	2936.0	2855.4	2652.1	2561.8	2523.1	2471.4
45°	8940.4	5110.7	2968.3	2845.7	2832.8	2826.3	2729.6	2516.6	2465.0	2416.6	2406.9
47.5°	9656.7	5017.1	2842.5	2732.8	2745.7	2710.2	2503.7	2435.9	2377.9	2329.5	2313.3
50°	9698.6	4794.5	2665.0	2645.7	2648.9	2587.6	2390.8	2345.6	2271.4	2239.1	2216.6
52.5°	9479.2	4429.9	2500.5	2506.9	2516.6	2416.6	2252.0	2219.8	2158.5	2113.3	2100.4
55°	8863.0	3862.0	2339.2	2365.0	2390.8	2200.4	2148.8	2068.1	2019.7	1955.2	1958.4
57.5°	7807.9	3110.3	2113.3	2155.2	2210.1	2000.4	1961.7	1861.6	1790.7	1739.0	1732.6
60°	5233.3	2213.3	1774.5	1790.7	1913.3	1829.4	1826.2	1726.1	1629.3	1584.2	1558.4
62.5°	3087.7	1690.6	1532.5	1516.4	1513.2	1561.6	1642.2	1606.8	1480.9	1393.8	1419.6
65°	1616.4	1461.6	1426.1	1371.2	1339.0	1326.1	1387.4	1403.5	1319.6	1226.0	1219.6
67.5°	1358.3	1358.3	1329.3	1309.9	1264.8	1209.9	1171.2	1119.6	1106.7	1080.9	1048.6
70°	1235.7	1268.0	1258.3	1213.1	1174.4	1113.1	1013.1	929.2	848.5	819.5	838.9
72.5°	1077.6	1109.9	1109.9	1087.3	1035.7	942.1	845.3	748.5	680.8	629.2	622.7
75°	829.2	845.3	884.0	858.2	790.5	732.4	632.4	532.4	467.8	419.4	409.8
77.5°	529.1	554.9	554.9	551.7	503.3	448.5	383.9	313.0	264.6	229.1	219.4
80°	351.7	367.8	380.7	367.8	335.5	293.6	245.2	196.8	161.3	132.3	125.8
82.5°	258.1	277.5	287.2	274.2	242.0	209.7	174.2	138.7	103.2	80.7	74.2
85°	100.0	103.2	116.2	138.7	135.5	132.3	106.5	77.4	58.1	41.9	38.7
87.5°	25.8	22.6	25.8	25.8	22.6	19.4	19.4	19.4	19.4	9.7	12.9
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)