

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: P459494

Luminaire Tested: **GALN-SA9B-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49175 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

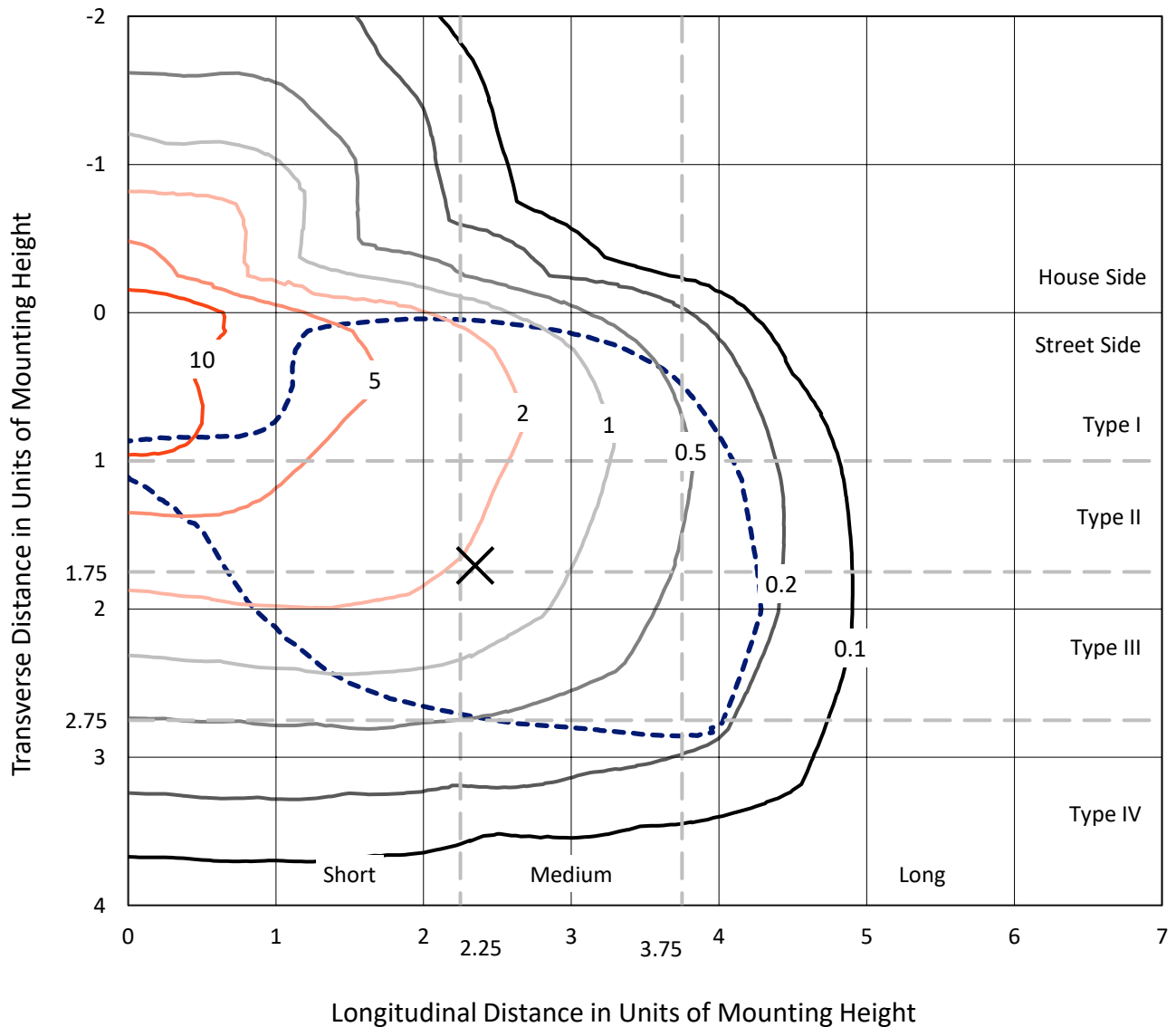
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

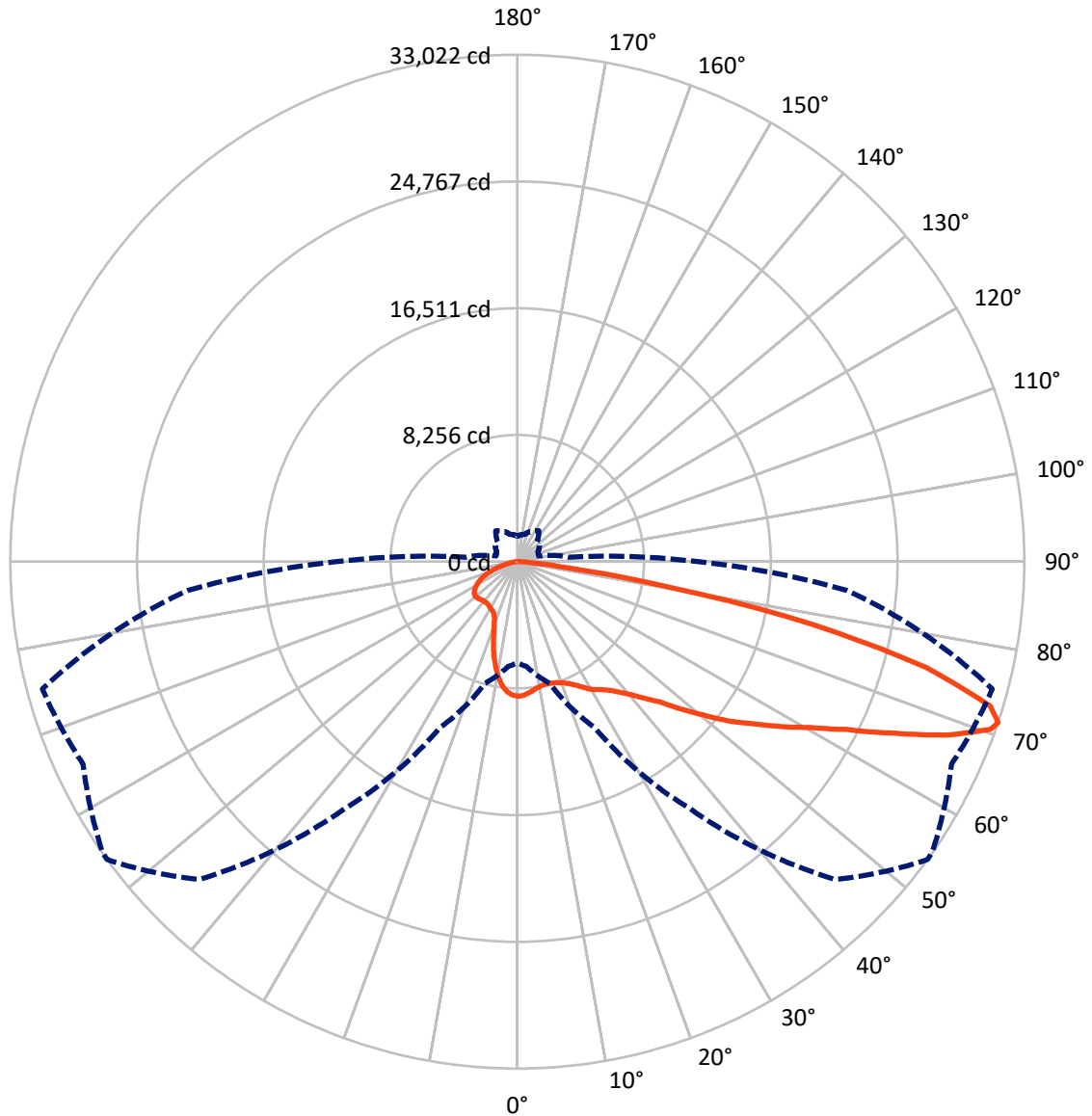
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8878.2	0.0	8878.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40296.8	0.0	40296.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	49175.0	0.0	49175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.9	1.6
10°-20°	2064.5	4.2
20°-30°	3437.5	7.0
30°-40°	5082.9	10.3
40°-50°	7159.4	14.6
50°-60°	9586.8	19.5
60°-70°	12083.4	24.6
70°-80°	8252.9	16.8
80°-90°	725.8	1.5
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°	49175.0	100.0
0°-180°	49175.0	100.0

Coefficient of Utilization



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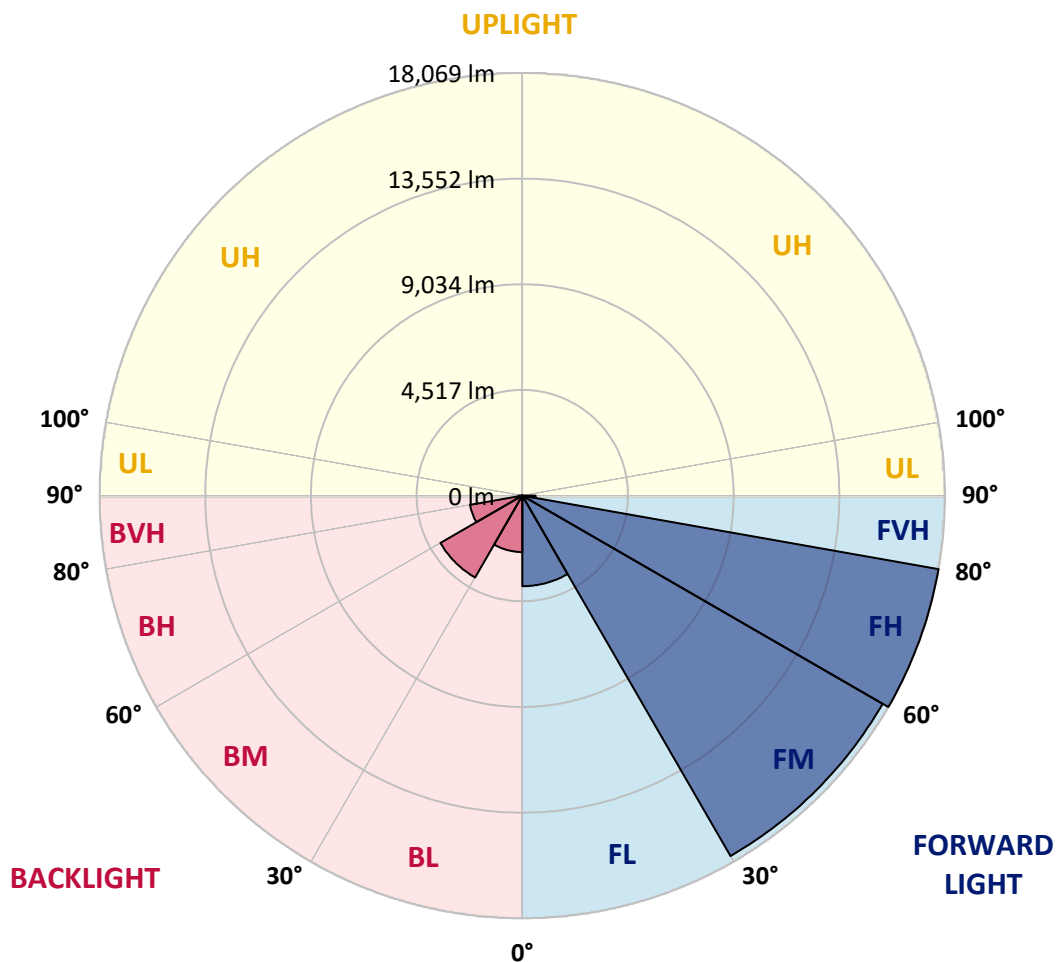
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3870.9	7.9			
FM	(30°-60°)	17789.7	36.2			
FH	(60°-80°)	18068.8	36.7			G5
FVH	(80°-90°)	567.3	1.2			G4/750
BL	(0°-30°)	2412.9	4.9	B3/2500		
BM	(30°-60°)	4039.3	8.2	B3/5000		
BH	(60°-80°)	2267.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	158.5	0.3			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5
2.5°	8476.0	8515.9	8526.5	8553.1	8608.9	8654.0	8699.2	8693.9	8757.6	8784.2	8808.1
5°	8098.9	8109.5	8149.3	8202.5	8300.7	8425.6	8547.8	8550.4	8707.1	8832.0	8893.1
7.5°	7822.6	7857.1	7883.7	7939.5	8043.1	8178.6	8372.5	8388.4	8667.3	8914.3	9044.5
10°	7642.0	7681.8	7711.1	7780.1	7883.7	8035.1	8245.0	8274.2	8638.1	9044.5	9272.9
12.5°	7477.3	7517.1	7543.7	7634.0	7769.5	7955.4	8191.8	8226.4	8648.7	9195.9	9522.6
15°	7578.2	7610.1	7599.5	7626.1	7716.4	7928.9	8213.1	8247.6	8688.5	9342.0	9769.6
17.5°	8027.1	8053.7	7966.1	7865.1	7822.6	7979.3	8279.5	8316.7	8768.2	9493.4	10022.0
20°	8688.5	8760.3	8569.0	8343.2	8138.7	8160.0	8417.6	8457.5	8879.8	9644.8	10279.6
22.5°	9549.2	9602.3	9368.5	8996.7	8619.5	8425.6	8624.8	8648.7	9047.1	9841.4	10561.2
25°	10561.2	10593.1	10269.0	9790.9	9246.4	8879.8	8909.0	8951.5	9323.4	10064.5	10810.9
27.5°	11544.0	11644.9	11270.4	10686.0	9968.9	9357.9	9299.5	9326.0	9623.5	10189.3	10983.5
30°	12710.1	12702.1	12306.3	11629.0	10709.9	9878.5	9668.7	9663.4	9785.6	10250.4	11108.4
32.5°	13639.8	13748.7	13360.9	12622.4	11557.3	10417.8	9923.7	9913.1	9910.4	10356.7	11294.3
35°	14697.0	14712.9	14357.0	13613.2	12473.7	11095.1	10279.6	10226.5	10165.4	10585.1	11546.7
37.5°	15642.6	15716.9	15390.2	14556.2	13374.1	11799.0	10768.4	10733.9	10547.9	10980.9	11950.4
40°	16381.0	16436.8	16240.2	15446.0	14261.3	12558.7	11389.9	11326.2	11100.4	11629.0	12489.6
42.5°	16622.7	16736.9	16814.0	16423.5	15281.3	13459.1	12154.9	12075.2	11902.6	12611.8	13111.2
45°	16641.3	16821.9	17228.3	17246.9	16306.6	14537.6	13047.4	12991.7	12978.4	13870.9	13985.1
47.5°	16500.5	16683.8	17366.5	17735.7	17220.4	15626.6	14335.7	14248.1	14256.0	15427.4	14965.2
50°	16160.5	16378.4	17207.1	18049.1	17934.9	16758.2	15695.7	15666.5	15831.2	17204.4	15982.6
52.5°	15520.4	15783.4	17042.4	18245.7	18466.2	17733.0	17241.6	17159.3	17576.3	19132.9	17095.5
55°	13748.7	14144.5	16439.4	18354.6	18970.8	18665.4	18633.5	18782.2	19334.7	21236.6	18320.1
57.5°	12824.3	13121.8	15129.9	18373.2	19608.3	19749.1	20259.1	20296.3	21263.2	23470.5	19704.0
60°	12319.6	12582.6	14412.7	18251.0	20498.2	21090.5	21921.9	22054.7	23146.4	25890.3	21138.3
62.5°	11878.7	12104.5	13982.4	17828.7	21502.2	23080.0	24076.1	24139.9	25284.7	28562.5	22554.1
65°	10840.1	11097.8	13116.5	17406.3	22368.2	25566.3	26934.2	26859.9	27561.1	30868.1	23441.3
67.5°	9440.3	9767.0	11498.8	15948.0	22795.8	28283.6	30153.6	30060.6	29808.3	32379.5	23696.3
70°	7652.6	7827.9	9429.6	13427.3	21087.9	29710.0	32695.6	32597.3	31200.2	32578.7	22490.4
71°	6584.8	6858.4	8210.4	11926.5	19666.8	29274.4	33022.3	32995.8	31202.8	32028.9	21581.9
72.5°	5139.8	5307.2	6502.5	9241.0	16715.7	26798.8	32214.8	32315.8	30525.5	30501.6	19709.3
75°	3251.2	3325.6	4080.0	5440.0	9172.0	18978.8	27500.0	27773.6	27104.2	24966.0	14657.1
77.5°	1888.6	1984.2	2443.7	3206.1	3963.1	10300.9	19677.4	19974.9	18832.7	13746.0	6000.4
80°	1099.7	1205.9	1609.7	1862.0	1819.5	3822.3	10019.3	10526.7	8154.6	3471.7	1684.1
82.5°	610.9	682.7	1131.6	1134.2	969.5	1248.4	3153.0	3299.0	2326.9	1399.8	688.0
85°	443.6	502.0	730.5	661.4	464.8	536.6	1097.0	1150.2	940.3	589.7	223.1
87.5°	156.7	223.1	401.1	318.7	127.5	111.6	316.1	257.7	239.1	164.7	50.5
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°	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5	8773.5
2.5°	8821.4	8826.7	8800.1	8752.3	8704.5	8643.4	8574.3	8521.2	8497.3	8494.6	8492.0
5°	8917.0	8930.3	8829.3	8680.6	8515.9	8314.0	8141.4	7944.8	7894.3	7814.6	7838.6
7.5°	9071.0	9063.1	8863.9	8547.8	8162.6	7735.0	7373.7	7163.9	6946.1	6885.0	6887.6
10°	9291.5	9241.0	8863.9	8276.8	7634.0	6999.2	6494.5	6175.7	6003.1	5859.7	5806.5
12.5°	9525.3	9397.8	8778.9	7897.0	6954.0	6175.7	5633.9	5203.6	5092.0	4975.1	4977.8
15°	9748.4	9535.9	8611.5	7363.1	6220.9	5296.5	4770.6	4512.9	4478.4	4491.7	4489.0
17.5°	9950.3	9634.2	8356.5	6768.1	5365.6	4542.2	4263.3	4281.9	4374.8	4441.2	4449.2
20°	10154.8	9692.6	7976.7	5971.2	4558.1	4085.3	4095.9	4242.0	4382.8	4473.1	4486.4
22.5°	10348.7	9719.2	7530.4	5200.9	3973.7	3891.4	4048.1	4204.8	4342.9	4430.6	4443.9
25°	10476.2	9658.1	6898.2	4396.1	3686.9	3822.3	3987.0	4119.8	4236.7	4327.0	4348.3
27.5°	10510.7	9461.5	6114.7	3745.3	3554.0	3755.9	3907.3	4005.6	4095.9	4180.9	4196.9
30°	10492.1	9172.0	5254.0	3362.8	3477.0	3678.9	3795.8	3867.5	3976.4	4042.8	4056.1
32.5°	10462.9	8834.6	4356.2	3158.3	3413.3	3607.2	3676.2	3740.0	3737.3	3710.8	3729.4
35°	10473.5	8430.9	3628.4	3036.1	3357.5	3554.0	3612.5	3532.8	3304.4	3293.7	3283.1
37.5°	10529.3	8032.5	3099.8	2951.1	3328.3	3546.1	3578.0	3211.4	3009.5	2916.5	2892.6
40°	10672.8	7567.6	2751.9	2887.3	3325.6	3607.2	3421.2	3049.4	2661.5	2480.9	2467.6
42.5°	10864.0	7110.7	2539.4	2847.5	3357.5	3700.1	3357.5	2820.9	2398.6	2292.3	2276.4
45°	11148.2	6587.5	2422.5	2828.9	3405.3	3734.7	3336.2	2653.6	2292.3	2207.3	2207.3
47.5°	11469.6	6088.1	2358.7	2815.6	3466.4	3710.8	3147.6	2600.5	2241.9	2252.5	2303.0
50°	11788.4	5655.1	2310.9	2786.4	3519.5	3697.5	3070.6	2597.8	2255.1	2390.6	2480.9
52.5°	12157.6	5349.7	2252.5	2738.6	3519.5	3612.5	3046.7	2650.9	2292.3	2332.2	2372.0
55°	12603.8	5254.0	2178.1	2635.0	3455.8	3400.0	3033.4	2728.0	2318.9	2225.9	2241.9
57.5°	13193.5	5408.1	2106.4	2504.8	3309.7	3179.5	3028.1	2749.2	2257.8	2180.8	2164.8
60°	13878.8	5713.6	2085.1	2372.0	3110.5	2990.9	2996.2	2688.1	2172.8	2093.1	2106.4
62.5°	14359.6	5896.8	2071.9	2271.1	2892.6	2783.7	2919.2	2613.7	2135.6	2066.6	2079.8
65°	14359.6	5673.7	1949.7	2117.0	2611.1	2534.0	2826.2	2520.8	2087.8	2008.1	1994.8
67.5°	13815.1	5022.9	1763.7	1885.9	2300.3	2249.8	2696.1	2409.2	2016.1	1955.0	1923.1
70°	12396.7	3809.0	1530.0	1615.0	1907.2	1952.3	2528.7	2257.8	1896.6	1822.2	1774.4
71°	11772.4	3317.6	1431.7	1476.9	1755.8	1822.2	2449.0	2194.1	1843.4	1737.2	1652.2
72.5°	10569.2	2794.4	1283.0	1301.6	1500.8	1620.3	2281.7	2071.9	1742.5	1591.1	1495.5
75°	8029.8	2040.0	1033.3	1022.7	1110.3	1285.6	1931.1	1846.1	1527.3	1322.8	1267.0
77.5°	3469.0	1110.3	773.0	780.9	754.4	974.8	1519.4	1585.8	1309.5	1075.8	1025.3
80°	1051.9	640.2	528.6	539.2	504.7	653.4	1070.5	1243.1	1051.9	836.7	767.7
82.5°	539.2	382.5	361.2	355.9	321.4	369.2	648.1	850.0	751.7	523.3	462.2
85°	233.7	204.5	178.0	172.7	151.4	132.8	231.1	425.0	398.4	292.2	278.9
87.5°	58.4	53.1	34.5	31.9	18.6	2.7	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)