

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: P457464

Luminaire Tested: **GALN-SA8D-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457464
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-SA8D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63925 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 493
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

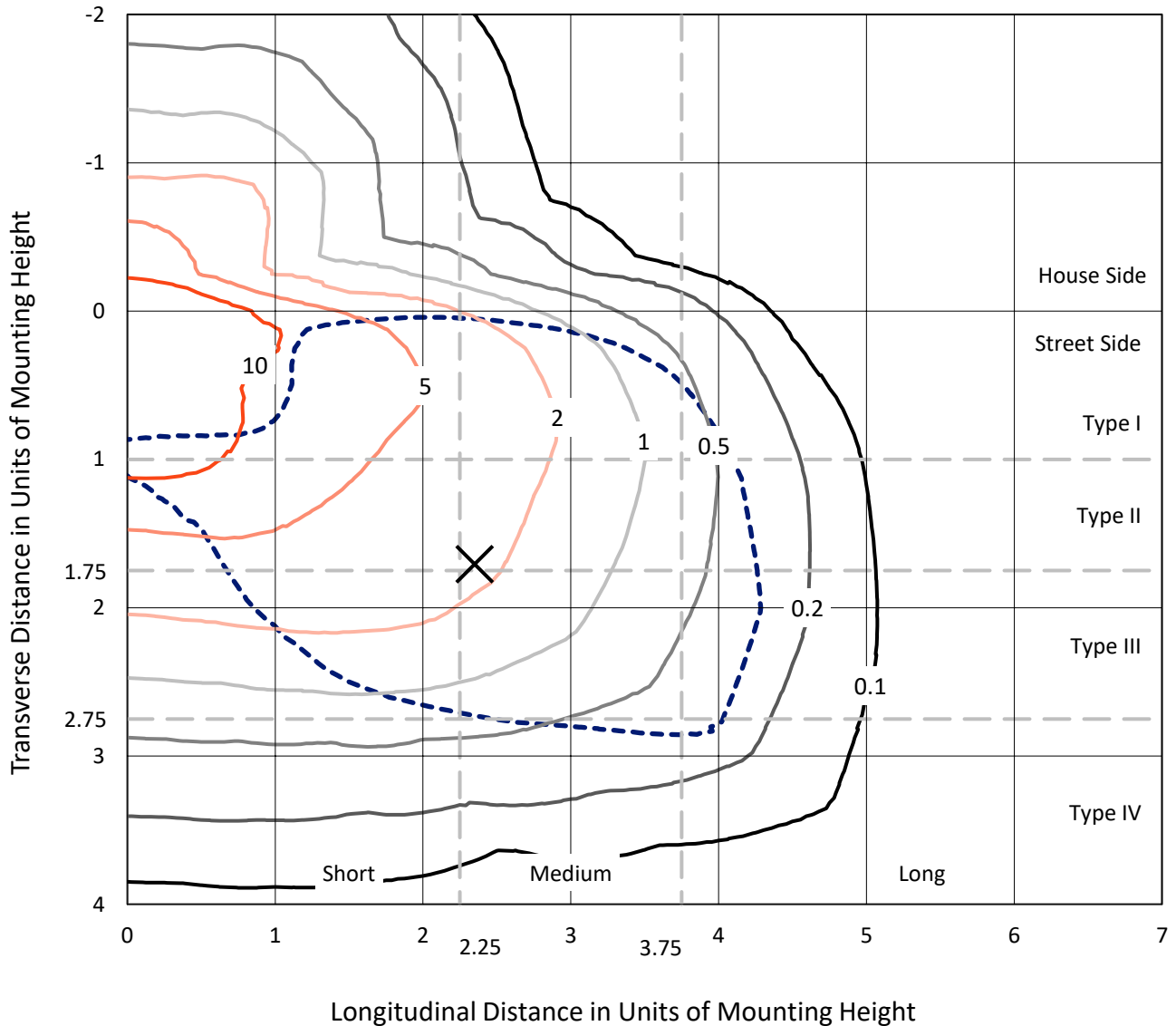




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Iso-Footcandle Lines of Horizontal Illumination

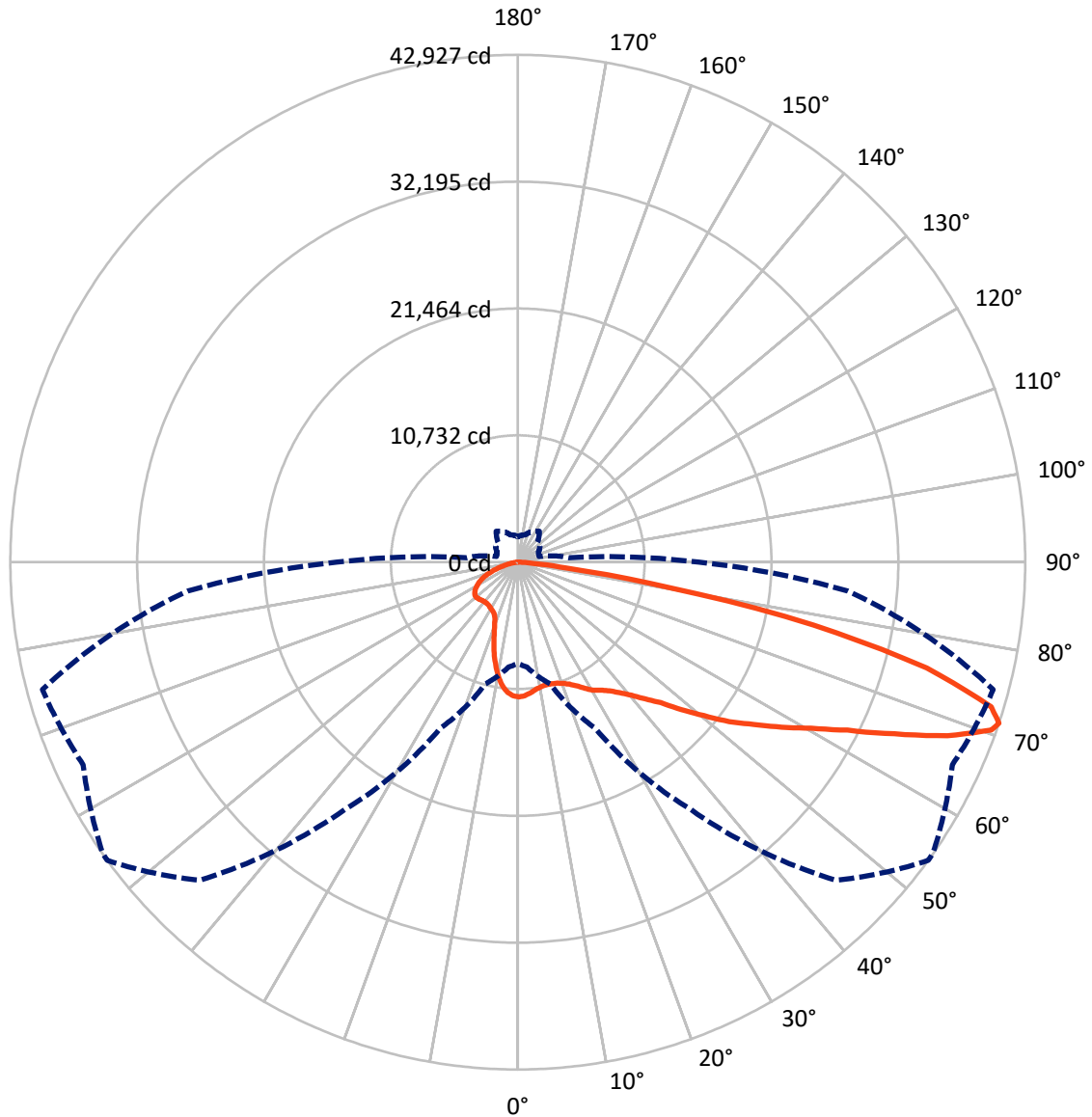
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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	11541.2	0.0	11541.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	52383.7	0.0	52383.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	63925.0	0.0	63925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.4	1.6
10°-20°	2683.7	4.2
20°-30°	4468.5	7.0
30°-40°	6607.5	10.3
40°-50°	9306.9	14.6
50°-60°	12462.3	19.5
60°-70°	15707.8	24.6
70°-80°	10728.4	16.8
80°-90°	943.5	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°	63925.0	100.0
0°-180°	63925.0	100.0

Coefficient of Utilization



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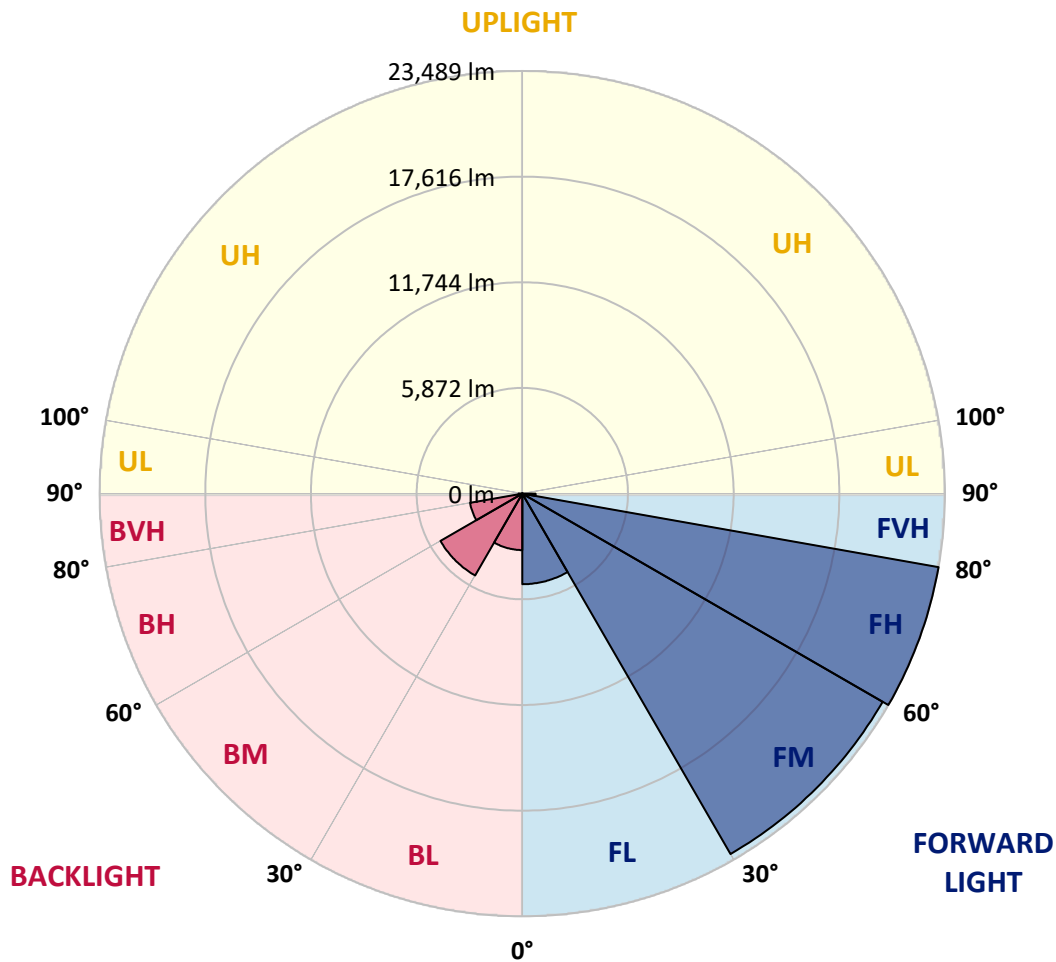
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5031.9	7.9			
FM	(30°-60°)	23125.8	36.2			
FH	(60°-80°)	23488.6	36.7			G5
FVH	(80°-90°)	737.5	1.2			G4/750
BL	(0°-30°)	3136.7	4.9	B4/5000		
BM	(30°-60°)	5250.9	8.2	B4/8500		
BH	(60°-80°)	2947.6	4.6	B4/5000		G4/5000
BVH	(80°-90°)	206.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2
2.5°	11018.4	11070.2	11084.0	11118.6	11191.1	11249.8	11308.5	11301.6	11384.4	11419.0	11450.1
5°	10528.1	10541.9	10593.7	10662.8	10790.5	10952.8	11111.7	11115.1	11318.8	11481.1	11560.6
7.5°	10169.0	10213.9	10248.4	10320.9	10455.6	10631.7	10883.8	10904.5	11267.0	11588.2	11757.4
10°	9934.2	9986.0	10024.0	10113.8	10248.4	10445.2	10718.0	10756.0	11229.1	11757.4	12054.3
12.5°	9720.1	9771.9	9806.4	9923.8	10099.9	10341.7	10649.0	10693.9	11242.9	11954.2	12378.9
15°	9851.3	9892.8	9879.0	9913.5	10030.9	10307.1	10676.6	10721.5	11294.7	12144.1	12700.0
17.5°	10434.9	10469.4	10355.5	10224.3	10169.0	10372.7	10762.9	10811.3	11398.3	12340.9	13028.1
20°	11294.7	11387.9	11139.3	10845.8	10579.9	10607.5	10942.5	10994.3	11543.3	12537.7	13363.0
22.5°	12413.4	12482.5	12178.6	11695.2	11204.9	10952.8	11211.8	11242.9	11760.8	12793.3	13729.0
25°	13729.0	13770.5	13349.2	12727.7	12019.8	11543.3	11581.3	11636.5	12119.9	13083.3	14053.6
27.5°	15006.6	15137.8	14651.0	13891.3	12959.0	12164.8	12088.9	12123.4	12510.1	13245.6	14278.0
30°	16522.5	16512.1	15997.6	15117.1	13922.4	12841.6	12568.8	12561.9	12720.7	13325.0	14440.3
32.5°	17731.0	17872.6	17368.4	16408.5	15023.9	13542.6	12900.3	12886.5	12883.0	13463.1	14682.0
35°	19105.3	19126.0	18663.3	17696.5	16215.2	14423.1	13363.0	13293.9	13214.5	13760.1	15010.1
37.5°	20334.6	20431.2	20006.5	18922.3	17385.7	15338.1	13998.3	13953.5	13711.8	14274.6	15534.9
40°	21294.5	21367.0	21111.5	20079.0	18539.0	16325.7	14806.3	14723.5	14430.0	15117.1	16235.9
42.5°	21608.7	21757.2	21857.3	21349.7	19864.9	17496.2	15800.8	15697.2	15472.8	16394.7	17043.9
45°	21632.9	21867.7	22396.0	22420.1	21197.8	18898.1	16961.0	16888.5	16871.2	18031.4	18179.9
47.5°	21449.9	21688.1	22575.5	23055.5	22385.6	20313.8	18635.7	18521.7	18532.1	20054.9	19454.0
50°	21007.9	21291.0	22368.4	23462.9	23314.5	21784.8	20403.6	20365.6	20579.7	22364.9	20776.5
52.5°	20175.7	20517.6	22154.3	23718.5	24005.1	23052.0	22413.2	22306.2	22848.3	24871.8	22223.3
55°	17872.6	18387.1	21370.4	23860.0	24661.1	24264.0	24222.6	24416.0	25134.2	27606.5	23815.1
57.5°	16670.9	17057.7	19668.1	23884.2	25489.8	25672.8	26335.8	26384.2	27641.0	30510.5	25614.1
60°	16014.9	16356.7	18735.8	23725.4	26646.6	27416.6	28497.4	28670.0	30089.2	33656.1	27478.8
62.5°	15441.7	15735.2	18176.4	23176.3	27951.8	30002.9	31297.7	31380.6	32868.8	37129.8	29319.2
65°	14091.6	14426.5	17050.8	22627.3	29077.5	33234.9	35013.1	34916.5	35828.0	40127.0	30472.5
67.5°	12271.9	12696.6	14947.9	20731.6	29633.4	36767.2	39198.1	39077.3	38749.3	42091.7	30804.0
70°	9948.0	10175.9	12258.1	17454.8	27413.1	38621.5	42502.6	42374.9	40558.6	42350.7	29236.3
71°	8559.9	8915.6	10673.1	15503.8	25565.8	38055.2	42927.3	42892.8	40562.1	41635.9	28055.4
72.5°	6681.5	6899.0	8452.9	12012.9	21729.6	34837.0	41877.6	42008.9	39681.6	39650.5	25621.1
75°	4226.4	4323.1	5303.8	7071.7	11923.1	24671.5	35748.6	36104.3	35234.1	32454.5	19053.5
77.5°	2455.1	2579.4	3176.7	4167.7	5151.8	13390.6	25579.6	25966.3	24481.6	17869.1	7800.3
80°	1429.5	1567.6	2092.5	2420.5	2365.3	4968.8	13024.6	13684.1	10600.6	4513.0	2189.2
82.5°	794.2	887.4	1471.0	1474.4	1260.3	1622.9	4098.7	4288.6	3024.8	1819.7	894.3
85°	576.6	652.6	949.6	859.8	604.3	697.5	1426.1	1495.1	1222.4	766.6	290.0
87.5°	203.7	290.0	521.4	414.4	165.7	145.0	410.9	334.9	310.8	214.1	65.6
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°	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2	11405.2
2.5°	11467.3	11474.2	11439.7	11377.5	11315.4	11236.0	11146.2	11077.1	11046.1	11042.6	11039.2
5°	11591.6	11608.9	11477.7	11284.3	11070.2	10807.8	10583.4	10327.8	10262.2	10158.6	10189.7
7.5°	11791.9	11781.5	11522.6	11111.7	10611.0	10055.1	9585.5	9312.7	9029.5	8950.1	8953.6
10°	12078.5	12012.9	11522.6	10759.5	9923.8	9098.6	8442.5	8028.2	7803.7	7617.3	7548.2
12.5°	12382.4	12216.6	11412.1	10265.7	9039.9	8028.2	7323.8	6764.4	6619.3	6467.4	6470.9
15°	12672.4	12396.2	11194.5	9571.6	8086.9	6885.2	6201.5	5866.6	5821.7	5839.0	5835.5
17.5°	12934.8	12523.9	10863.0	8798.2	6975.0	5904.6	5542.0	5566.2	5687.0	5773.4	5783.7
20°	13200.7	12599.9	10369.3	7762.3	5925.3	5310.7	5324.5	5514.4	5697.4	5814.8	5832.1
22.5°	13452.8	12634.4	9789.2	6760.9	5165.6	5058.6	5262.3	5466.1	5645.6	5759.6	5776.8
25°	13618.5	12555.0	8967.4	5714.7	4792.7	4968.8	5182.9	5355.6	5507.5	5624.9	5652.5
27.5°	13663.4	12299.5	7948.7	4868.7	4620.1	4882.5	5079.3	5207.1	5324.5	5435.0	5455.7
30°	13639.2	11923.1	6830.0	4371.5	4519.9	4782.4	4934.3	5027.5	5169.1	5255.4	5272.7
32.5°	13601.3	11484.6	5662.9	4105.6	4437.1	4689.1	4778.9	4861.8	4858.3	4823.8	4848.0
35°	13615.1	10959.7	4716.8	3946.7	4364.6	4620.1	4696.0	4592.5	4295.5	4281.7	4267.9
37.5°	13687.6	10441.8	4029.6	3836.3	4326.6	4609.7	4651.2	4174.6	3912.2	3791.4	3760.3
40°	13874.0	9837.5	3577.3	3753.4	4323.1	4689.1	4447.4	3964.0	3459.9	3225.1	3207.8
42.5°	14122.7	9243.6	3301.0	3701.6	4364.6	4810.0	4364.6	3667.1	3118.0	2979.9	2959.2
45°	14492.1	8563.4	3149.1	3677.4	4426.7	4854.9	4336.9	3449.5	2979.9	2869.4	2869.4
47.5°	14909.9	7914.2	3066.2	3660.2	4506.1	4823.8	4091.8	3380.5	2914.3	2928.1	2993.7
50°	15324.3	7351.4	3004.1	3622.2	4575.2	4806.5	3991.6	3377.0	2931.6	3107.7	3225.1
52.5°	15804.3	6954.3	2928.1	3560.0	4575.2	4696.0	3960.6	3446.1	2979.9	3031.7	3083.5
55°	16384.4	6830.0	2831.4	3425.3	4492.3	4419.8	3943.3	3546.2	3014.4	2893.6	2914.3
57.5°	17150.9	7030.3	2738.2	3256.2	4302.4	4133.2	3936.4	3573.8	2935.0	2834.9	2814.2
60°	18041.8	7427.3	2710.6	3083.5	4043.4	3888.0	3895.0	3494.4	2824.5	2720.9	2738.2
62.5°	18666.8	7665.6	2693.3	2952.3	3760.3	3618.7	3794.8	3397.7	2776.2	2686.4	2703.7
65°	18666.8	7375.5	2534.5	2752.0	3394.3	3294.1	3674.0	3276.9	2714.0	2610.4	2593.2
67.5°	17958.9	6529.6	2292.8	2451.6	2990.3	2924.7	3504.8	3131.8	2620.8	2541.4	2500.0
70°	16115.0	4951.6	1988.9	2099.4	2479.2	2537.9	3287.2	2935.0	2465.4	2368.7	2306.6
71°	15303.6	4312.8	1861.2	1919.9	2282.4	2368.7	3183.6	2852.2	2396.4	2258.2	2147.7
72.5°	13739.4	3632.5	1667.8	1692.0	1950.9	2106.3	2966.1	2693.3	2265.1	2068.3	1944.0
75°	10438.3	2651.9	1343.2	1329.4	1443.3	1671.2	2510.3	2399.8	1985.5	1719.6	1647.1
77.5°	4509.6	1443.3	1004.8	1015.2	980.6	1267.2	1975.1	2061.4	1702.3	1398.5	1332.8
80°	1367.4	832.2	687.1	701.0	656.1	849.4	1391.5	1616.0	1367.4	1087.7	997.9
82.5°	701.0	497.2	469.6	462.7	417.8	480.0	842.5	1105.0	977.2	680.2	600.8
85°	303.9	265.9	231.3	224.4	196.8	172.6	300.4	552.5	517.9	379.8	362.6
87.5°	76.0	69.1	44.9	41.4	24.2	3.5	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)