

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: P457226

Luminaire Tested: **GALN-SA8C-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57094 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

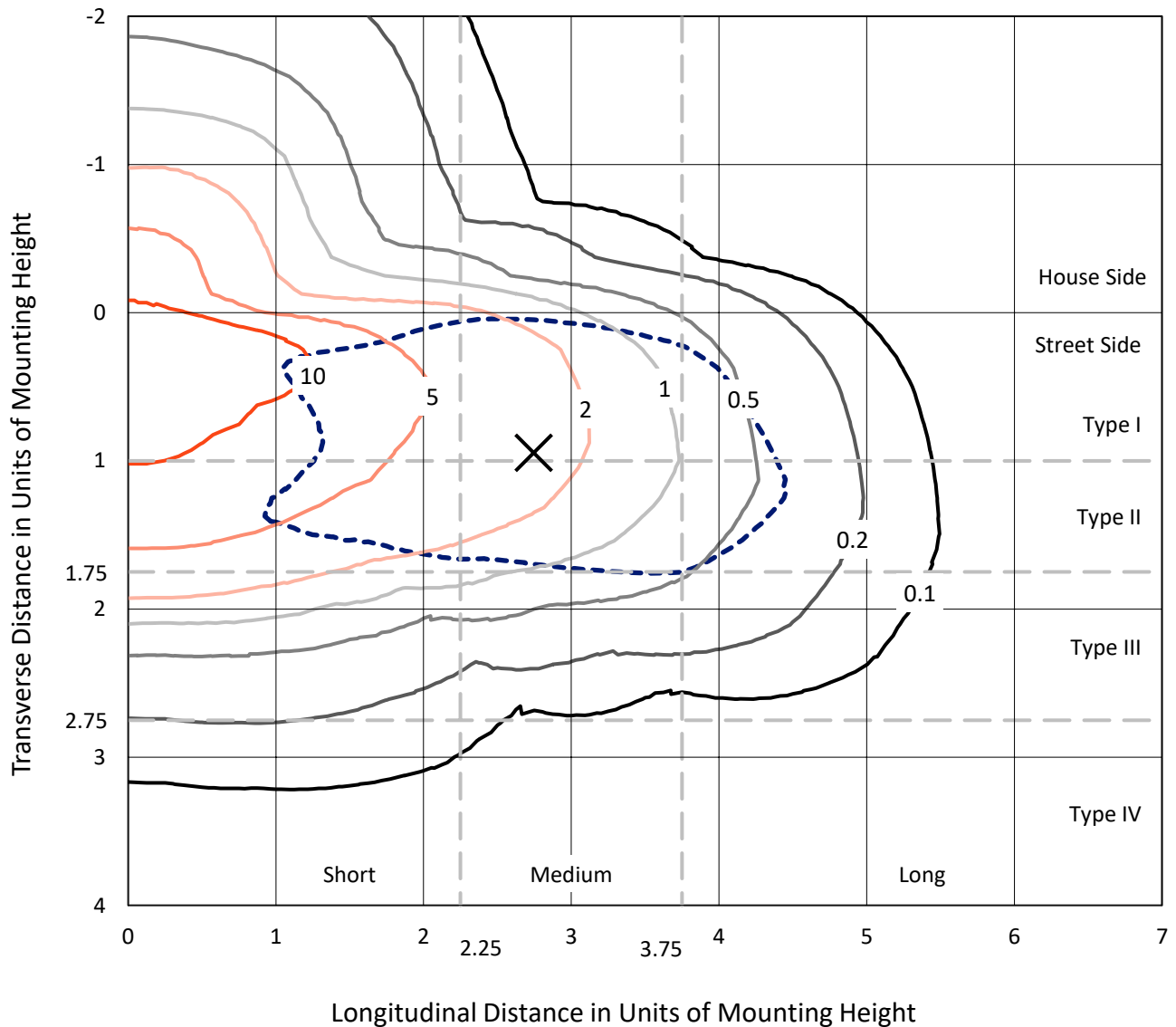
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

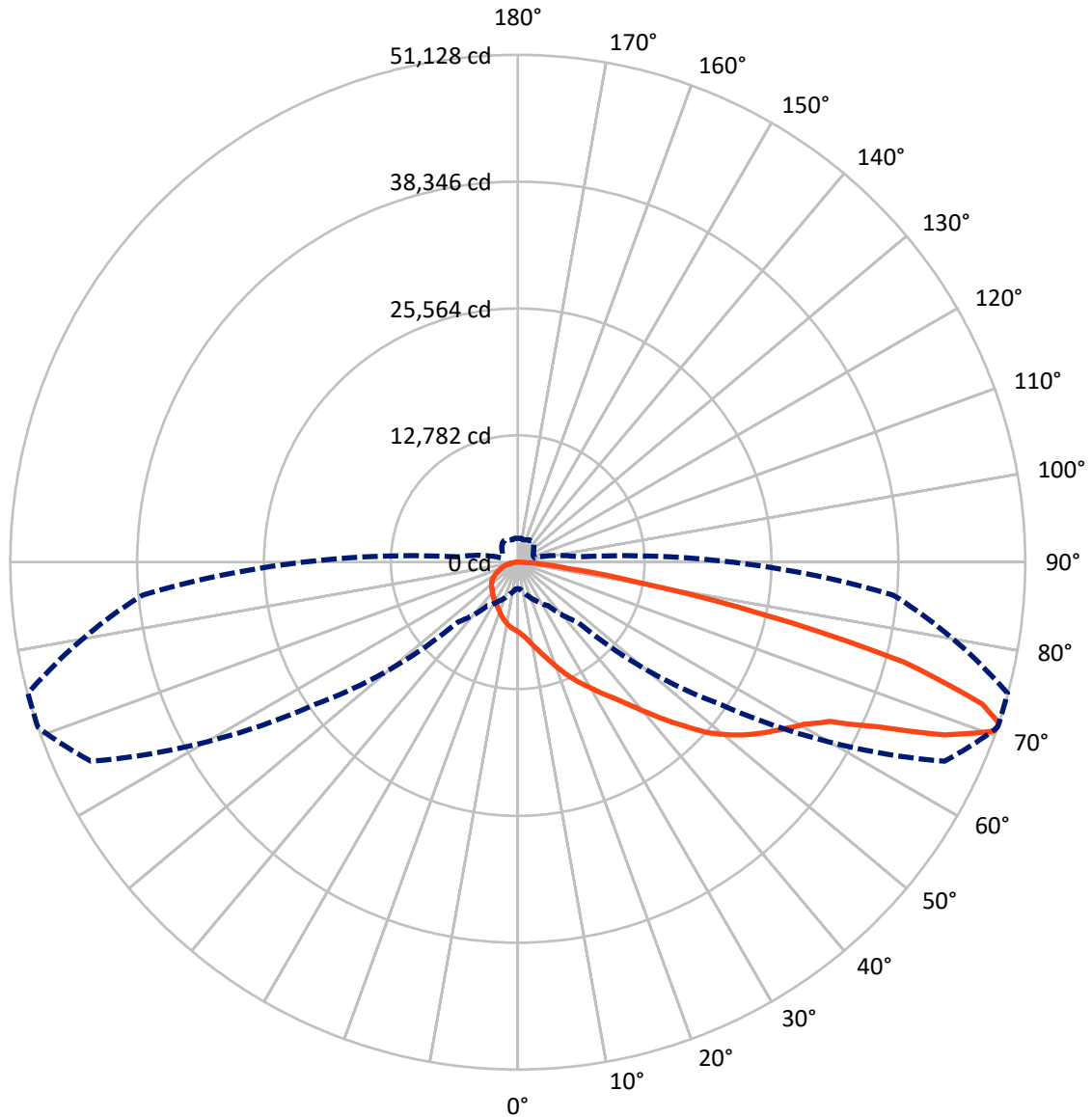
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10268.2	0.0	10268.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	46825.8	0.0	46825.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	57094.0	0.0	57094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.6	1.2
10°-20°	2285.8	4.0
20°-30°	3994.7	7.0
30°-40°	5941.6	10.4
40°-50°	8754.1	15.3
50°-60°	12255.9	21.5
60°-70°	13707.8	24.0
70°-80°	8373.3	14.7
80°-90°	1077.1	1.9
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°	57094.0	100.0
0°-180°	57094.0	100.0

Coefficient of Utilization



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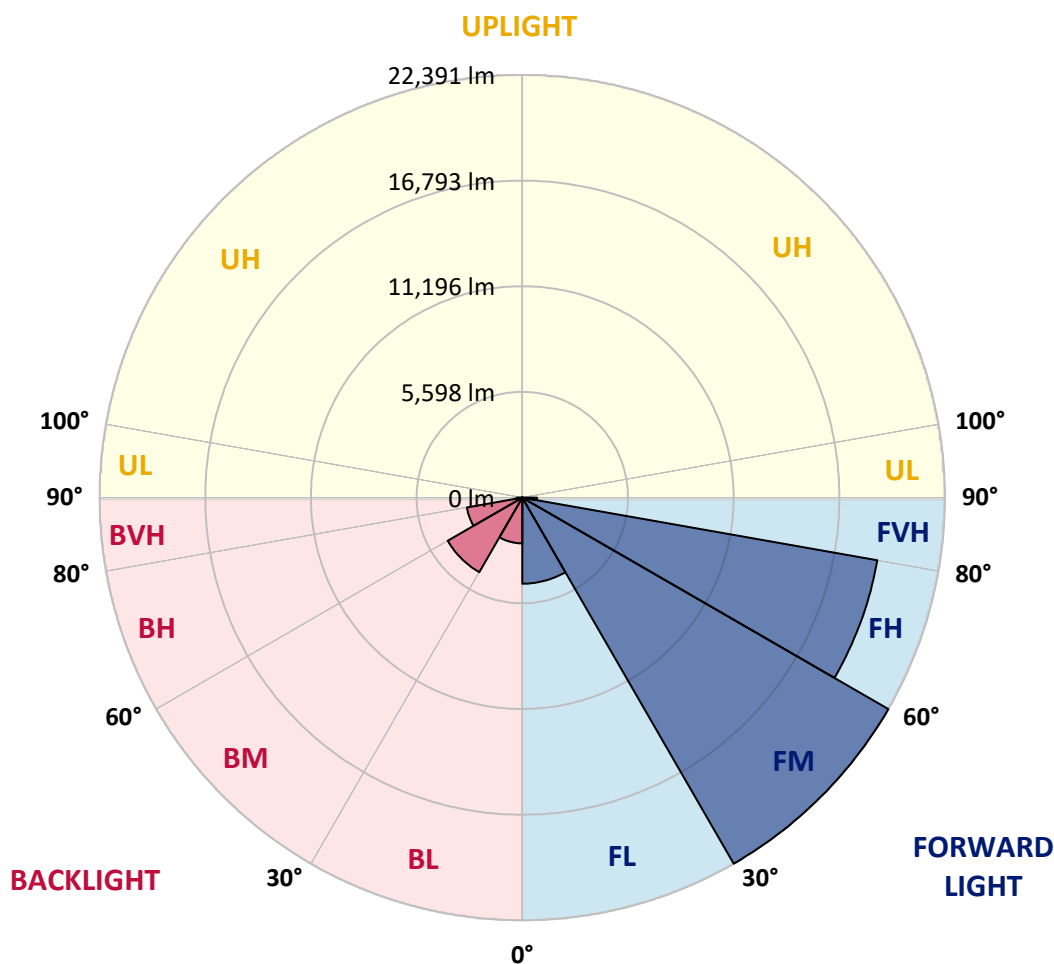
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4561.8	8.0			
FM	(30°-60°)	22391.1	39.2			
FH	(60°-80°)	19097.8	33.4			G5
FVH	(80°-90°)	775.0	1.4			G5
BL	(0°-30°)	2422.2	4.2	B3/2500		
BM	(30°-60°)	4560.5	8.0	B3/5000		
BH	(60°-80°)	2983.4	5.2	B4/5000		G4/5000
BVH	(80°-90°)	302.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2
2.5°	7779.1	7741.5	7744.6	7691.2	7622.2	7546.9	7440.2	7346.1	7270.8	7226.8	7098.2
5°	8620.1	8582.4	8535.4	8419.3	8369.1	8183.9	7948.6	7735.2	7572.0	7481.0	7223.7
7.5°	9301.0	9291.6	9279.1	9213.2	9084.5	8827.2	8626.4	8256.1	8014.5	7841.9	7402.6
10°	9721.5	9737.2	9746.6	9759.2	9705.8	9570.9	9294.8	8827.2	8519.7	8300.0	7634.8
12.5°	9934.9	9950.6	10004.0	10120.1	10192.2	10176.5	9950.6	9492.5	9068.8	8780.1	7882.7
15°	10066.7	10091.8	10186.0	10339.7	10581.3	10735.1	10625.3	10201.7	9737.2	9395.2	8177.6
17.5°	10211.1	10239.3	10342.9	10562.5	10879.5	11212.1	11331.3	10967.3	10462.1	10054.2	8507.1
20°	10292.7	10330.3	10477.8	10766.5	11136.8	11620.0	12015.4	11824.0	11271.7	10819.8	8886.8
22.5°	10424.4	10455.8	10581.3	10888.9	11331.3	11937.0	12699.5	12658.7	12172.3	11588.6	9304.2
25°	10782.2	10832.4	10895.1	11080.3	11507.1	12260.2	13267.5	13549.9	13044.7	12392.0	9687.0
27.5°	11456.9	11497.6	11494.5	11519.6	11761.2	12539.5	13760.1	14431.7	13910.8	13204.7	10057.3
30°	12225.7	12241.4	12253.9	12197.4	12250.8	12825.0	14212.0	15304.0	14783.1	14039.4	10380.5
32.5°	13160.8	13192.2	13085.5	12941.1	12897.2	13248.7	14585.4	16176.4	15815.5	14886.7	10700.6
35°	14265.4	14347.0	14130.4	13876.3	13697.4	13857.4	15087.5	17067.6	16873.0	15969.3	11124.2
37.5°	15526.8	15627.3	15426.4	14927.5	14673.3	14717.2	15743.4	18169.0	18209.8	17202.5	11755.0
40°	16559.2	16691.0	16697.3	15991.3	15605.3	15655.5	16574.9	19355.2	19822.8	18727.6	12498.7
42.5°	17240.2	17368.9	17503.8	17089.6	16684.8	16970.3	17544.6	20641.8	21636.5	20579.0	13537.3
45°	17987.0	18103.1	18178.5	17990.2	17764.2	18504.8	18715.1	22010.0	23569.5	22647.0	14673.3
47.5°	18853.1	18981.8	19054.0	18875.1	18790.4	19851.0	19976.5	23287.1	25634.4	24655.3	15928.5
50°	20007.9	20105.2	20067.5	19954.6	19935.7	20883.4	21187.8	24482.7	27338.3	26817.4	17230.8
52.5°	21445.1	21561.2	21602.0	21442.0	21369.8	21620.8	22163.7	25571.6	28888.5	28675.1	18620.9
55°	22314.3	22499.5	23120.8	23371.9	23544.4	22574.8	23215.0	26773.4	30278.6	30633.2	20114.6
57.5°	21200.4	21438.8	22829.0	24084.2	25706.5	24959.7	24705.5	28028.6	31668.7	32531.7	21903.3
60°	18482.8	18536.2	20328.0	22640.7	25904.2	28025.5	27815.3	30024.4	33175.0	34445.9	24259.9
62.5°	12821.9	12934.9	15053.0	18743.3	23462.9	29130.1	33105.9	33469.9	35333.9	37310.9	27714.8
65°	6611.8	6464.3	8394.2	11780.1	17688.9	26506.7	37392.5	39805.6	40015.8	41791.9	32578.8
67.5°	4070.0	4135.9	5039.6	6878.5	10459.0	19264.2	36943.7	47547.0	46439.3	47292.9	37094.3
70°	3056.4	3138.0	3759.3	4707.0	6376.4	11014.4	29710.6	49423.6	50970.6	50750.9	38468.8
71°	2657.9	2742.6	3389.0	4283.4	5356.6	8500.9	25031.9	47459.2	51127.5	51089.8	37951.0
72.5°	2265.6	2319.0	2824.2	3627.5	4515.6	5959.1	18806.1	42563.9	48946.6	50198.6	36102.7
75°	1779.2	1820.0	2046.0	2767.7	3555.4	3658.9	10091.8	31910.4	40201.0	42585.8	30055.8
77.5°	1449.8	1478.0	1594.1	2055.4	2742.6	2592.0	5293.8	20770.4	25185.6	27586.2	17704.6
80°	1151.6	1183.0	1252.1	1393.3	2055.4	1848.3	2526.1	10524.9	12166.0	12140.9	7066.8
82.5°	894.3	903.7	985.3	1023.0	1405.8	1311.7	1368.2	4456.0	4936.1	5099.3	2551.2
85°	564.8	593.1	872.4	784.5	841.0	768.8	674.7	1769.8	2180.9	2149.5	1019.9
87.5°	172.6	182.0	295.0	332.6	373.4	335.8	247.9	520.9	637.0	690.4	254.2
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°	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2	7007.2
2.5°	7048.0	7013.4	6891.1	6790.6	6696.5	6592.9	6505.1	6480.0	6458.0	6448.6	6445.5
5°	7113.9	7010.3	6768.7	6571.0	6414.1	6269.7	6178.7	6137.9	6097.1	6097.1	6109.7
7.5°	7208.0	7019.7	6646.3	6351.3	6153.6	6018.7	5952.8	5946.5	5955.9	5965.3	5968.5
10°	7311.5	7013.4	6467.4	6100.3	5924.6	5861.8	5864.9	5918.3	5968.5	6006.1	6012.4
12.5°	7412.0	6975.8	6257.2	5864.9	5752.0	5764.5	5852.4	5971.6	6068.9	6122.2	6125.4
15°	7524.9	6916.2	6003.0	5642.1	5604.5	5701.8	5864.9	6046.9	6194.4	6282.3	6291.7
17.5°	7619.1	6815.7	5736.3	5425.6	5472.7	5651.5	5877.5	6112.8	6291.7	6401.5	6420.4
20°	7725.8	6687.1	5460.1	5218.5	5353.4	5595.1	5852.4	6106.6	6291.7	6398.4	6423.5
22.5°	7810.5	6505.1	5196.5	5049.0	5246.7	5526.0	5767.7	5971.6	6122.2	6178.7	6216.4
25°	7845.0	6276.0	4948.6	4911.0	5162.0	5413.1	5576.2	5692.3	5739.4	5733.1	5748.8
27.5°	7826.2	6012.4	4735.2	4801.1	5055.3	5237.3	5318.9	5309.5	5224.8	5146.3	5184.0
30°	7747.7	5698.6	4556.4	4688.2	4917.3	5017.7	5005.1	4882.7	4722.7	4575.2	4584.6
32.5°	7606.5	5359.7	4390.1	4559.5	4722.7	4766.6	4681.9	4521.9	4292.8	4101.4	4073.1
35°	7487.3	5036.5	4242.6	4412.0	4528.1	4506.2	4424.6	4217.5	4010.4	3840.9	3812.7
37.5°	7468.4	4760.4	4101.4	4245.7	4311.6	4280.2	4179.8	4004.1	3928.8	3800.1	3784.4
40°	7568.9	4565.8	3957.0	4070.0	4101.4	4076.3	3966.4	3866.0	3935.1	3903.7	3903.7
42.5°	7841.9	4462.2	3828.4	3894.3	3919.4	3938.2	3859.7	3775.0	3859.7	3715.4	3668.3
45°	8274.9	4465.4	3712.3	3721.7	3797.0	3862.9	3809.5	3684.0	3640.1	3351.4	3294.9
47.5°	8911.9	4572.1	3618.1	3558.5	3693.4	3803.3	3727.9	3545.9	3351.4	3160.0	3125.5
50°	9655.6	4763.5	3533.4	3389.0	3555.4	3727.9	3671.5	3458.1	3257.2	3141.1	3119.2
52.5°	10480.9	5005.1	3429.8	3200.8	3385.9	3693.4	3684.0	3445.5	3169.4	3090.9	3072.1
55°	11500.8	5243.6	3301.2	2981.1	3235.3	3665.2	3649.5	3342.0	3150.6	3094.1	3087.8
57.5°	12686.9	5588.8	3116.0	2758.3	3062.7	3549.1	3514.6	3279.2	3087.8	3047.0	3043.9
60°	14598.0	6125.4	2852.4	2554.3	2887.0	3345.1	3389.0	3172.5	2987.4	2978.0	2974.8
62.5°	17111.5	6878.5	2579.4	2344.1	2683.0	3081.5	3207.0	3028.2	2880.7	2927.8	2934.0
65°	20582.2	7512.4	2297.0	2165.2	2457.1	2827.3	3034.4	2893.2	2761.4	2852.4	2852.4
67.5°	22844.7	7524.9	2039.7	1980.1	2228.0	2614.0	2852.4	2733.2	2607.7	2761.4	2767.7
70°	22374.0	6592.9	1826.3	1785.5	2005.2	2384.9	2651.6	2557.5	2413.1	2551.2	2501.0
71°	21614.6	6075.2	1741.6	1710.2	1917.3	2275.1	2557.5	2479.0	2334.7	2425.7	2397.4
72.5°	20403.3	5275.0	1603.5	1609.8	1785.5	2137.0	2425.7	2344.1	2199.7	2249.9	2240.5
75°	17246.5	4606.6	1371.3	1399.5	1534.5	1901.6	2162.1	2099.3	1951.8	1951.8	1942.4
77.5°	10782.2	3219.6	1139.1	1154.8	1302.3	1628.6	1857.7	1804.4	1663.1	1616.1	1603.5
80°	4022.9	1663.1	891.2	910.0	1001.0	1283.4	1537.6	1487.4	1343.1	1289.7	1239.5
82.5°	1521.9	834.7	655.8	640.2	737.4	979.1	1205.0	1145.4	1032.4	903.7	866.1
85°	574.3	414.2	401.7	389.1	433.0	580.5	746.8	734.3	615.0	524.0	514.6
87.5°	150.6	134.9	156.9	116.1	122.4	109.8	113.0	47.1	22.0	9.4	6.3
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)