

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: P458131

Luminaire Tested: **GALN-SA9C-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458131
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-SA9C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59399 lumens
Efficiency: N/A
Efficacy: 123.5 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

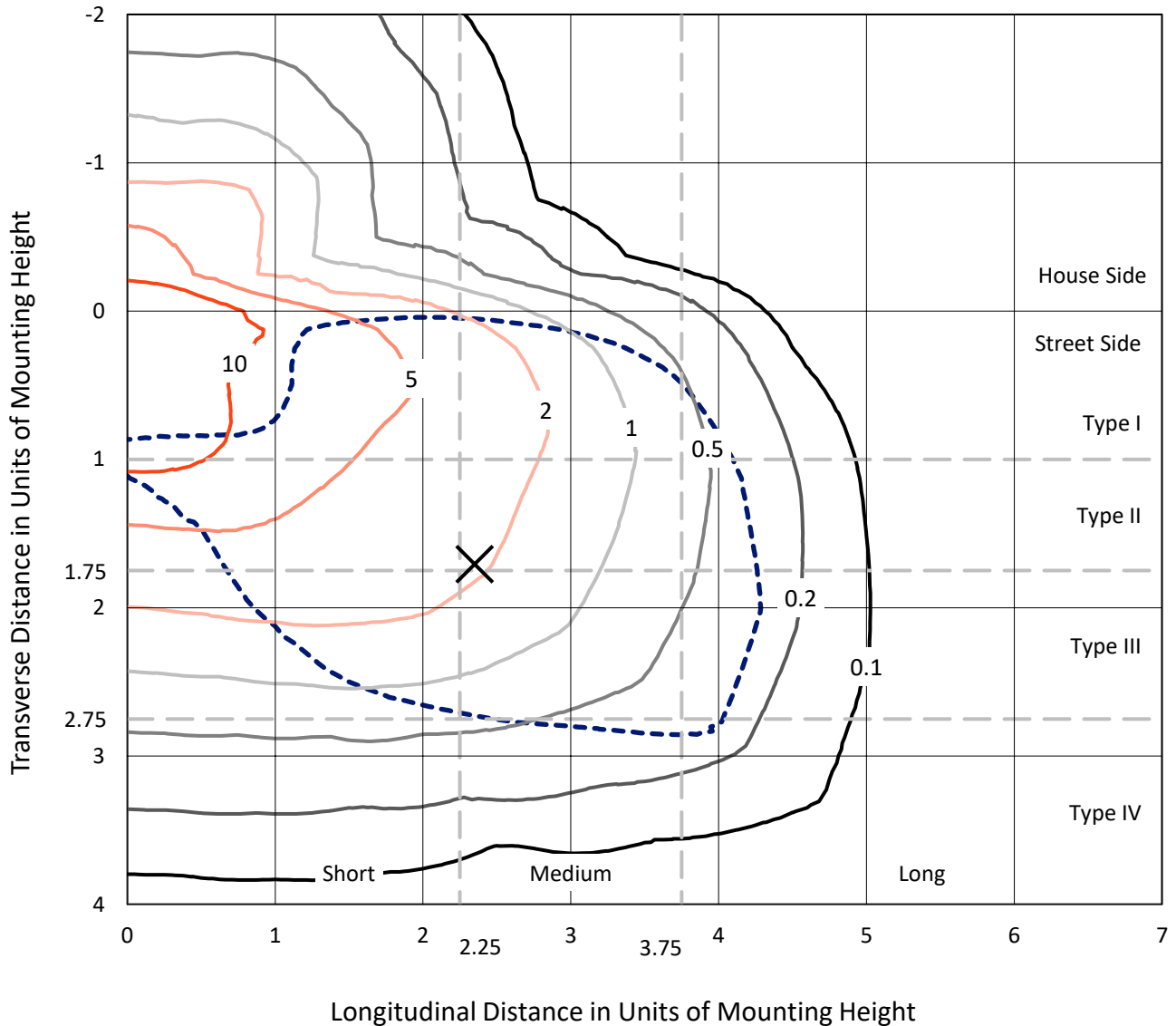
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

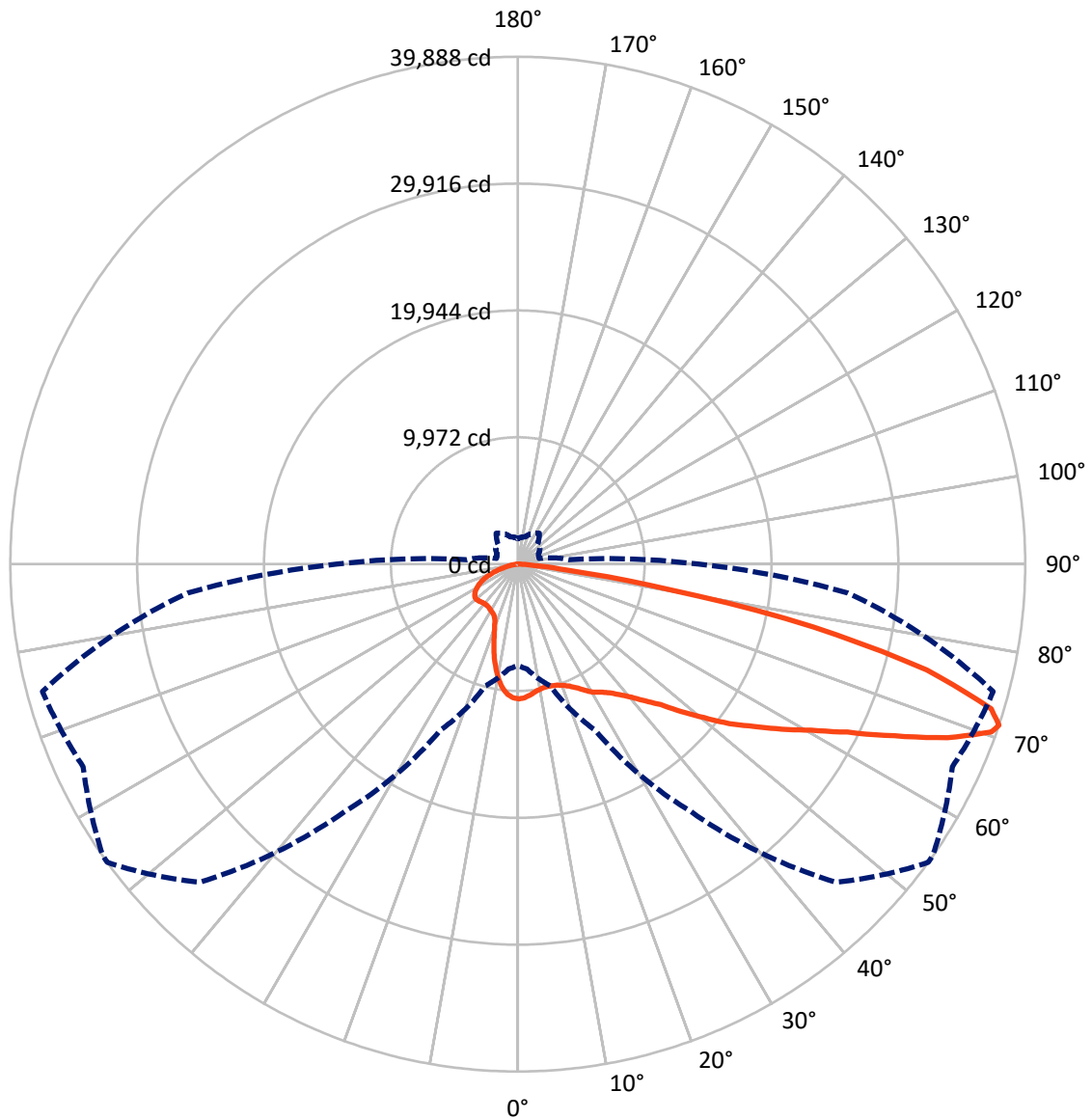
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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	10724.1	0.0	10724.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	48674.9	0.0	48674.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	59399.0	0.0	59399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.4	1.6
10°-20°	2493.7	4.2
20°-30°	4152.1	7.0
30°-40°	6139.7	10.3
40°-50°	8647.9	14.6
50°-60°	11580.0	19.5
60°-70°	14595.7	24.6
70°-80°	9968.8	16.8
80°-90°	876.7	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°	59399.0	100.0
0°-180°	59399.0	100.0

Coefficient of Utilization



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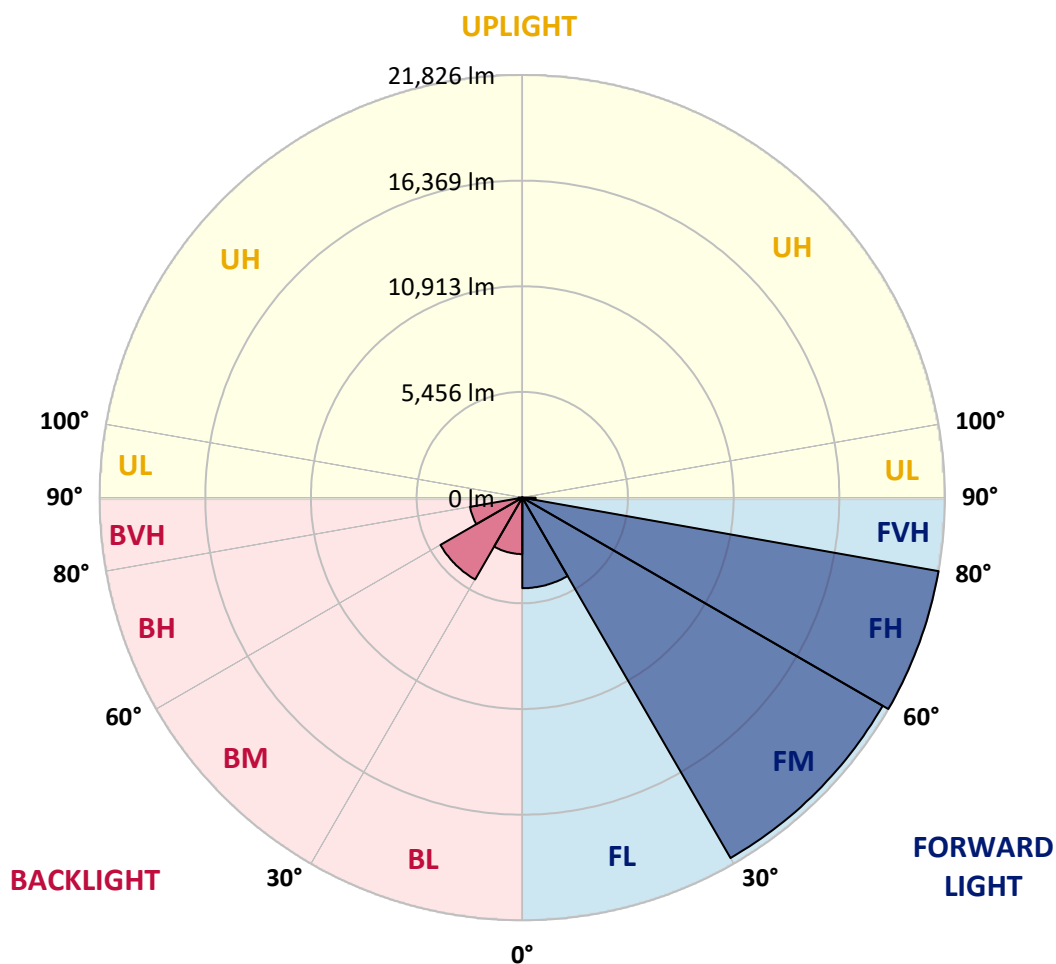
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4675.7	7.9			
FM	(30°-60°)	21488.4	36.2			
FH	(60°-80°)	21825.5	36.7			G5
FVH	(80°-90°)	685.3	1.2			G4/750
BL	(0°-30°)	2914.6	4.9	B4/5000		
BM	(30°-60°)	4879.2	8.2	B3/5000		
BH	(60°-80°)	2738.9	4.6	B4/5000		G4/5000
BVH	(80°-90°)	191.4	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°	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7
2.5°	10238.3	10286.4	10299.3	10331.4	10398.7	10453.3	10507.8	10501.4	10578.4	10610.5	10639.4
5°	9782.7	9795.5	9843.7	9907.8	10026.5	10177.3	10324.9	10328.1	10517.4	10668.2	10742.0
7.5°	9449.0	9490.7	9522.8	9590.2	9715.3	9879.0	10113.2	10132.4	10469.3	10767.7	10924.9
10°	9230.8	9279.0	9314.3	9397.7	9522.8	9705.7	9959.2	9994.5	10434.0	10924.9	11200.9
12.5°	9031.9	9080.0	9112.1	9221.2	9384.8	9609.4	9895.0	9936.7	10446.9	11107.8	11502.5
15°	9153.8	9192.3	9179.5	9211.6	9320.7	9577.4	9920.7	9962.4	10495.0	11284.3	11800.8
17.5°	9696.1	9728.2	9622.3	9500.4	9449.0	9638.3	10000.9	10045.8	10591.2	11467.2	12105.7
20°	10495.0	10581.6	10350.6	10077.9	9830.8	9856.5	10167.7	10215.9	10726.0	11650.0	12416.9
22.5°	11534.5	11598.7	11316.4	10867.2	10411.6	10177.3	10418.0	10446.9	10928.1	11887.5	12757.0
25°	12757.0	12795.5	12404.0	11826.5	11168.8	10726.0	10761.3	10812.6	11261.8	12157.0	13058.6
27.5°	13944.1	14066.0	13613.6	12907.8	12041.5	11303.5	11232.9	11265.0	11624.4	12307.8	13267.1
30°	15352.7	15343.0	14865.0	14046.8	12936.7	11932.4	11678.9	11672.5	11820.1	12381.6	13417.9
32.5°	16475.6	16607.2	16138.7	15246.8	13960.2	12583.7	11986.9	11974.1	11970.9	12509.9	13642.5
35°	17752.6	17771.9	17341.9	16443.5	15067.1	13401.9	12416.9	12352.7	12278.9	12785.9	13947.3
37.5°	18894.8	18984.7	18590.0	17582.6	16154.8	14252.1	13007.2	12965.5	12740.9	13263.9	14435.0
40°	19786.8	19854.2	19616.7	18657.4	17226.4	15169.8	13758.0	13681.0	13408.3	14046.8	15086.3
42.5°	20078.8	20216.7	20309.8	19838.1	18458.5	16257.4	14682.1	14585.8	14377.3	15233.9	15837.1
45°	20101.2	20319.4	20810.3	20832.8	19697.0	17560.1	15760.1	15692.8	15676.7	16754.8	16892.7
47.5°	19931.2	20152.6	20977.1	21423.1	20800.7	18875.6	17316.3	17210.4	17220.0	18634.9	18076.7
50°	19520.5	19783.6	20784.6	21801.7	21663.8	20242.4	18959.0	18923.7	19122.6	20781.4	19305.5
52.5°	18747.2	19064.9	20585.7	22039.2	22305.5	21419.9	20826.3	20726.9	21230.6	23110.8	20649.9
55°	16607.2	17085.2	19857.4	22170.7	22915.1	22546.1	22507.6	22687.3	23354.6	25651.9	22129.0
57.5°	15490.6	15850.0	18275.6	22193.2	23685.1	23855.2	24471.2	24516.1	25684.0	28350.3	23800.6
60°	14881.0	15198.6	17409.3	22045.6	24760.0	25475.5	26479.7	26640.1	27958.8	31273.2	25533.2
62.5°	14348.4	14621.1	16889.5	21535.4	25972.8	27878.6	29081.8	29158.8	30541.7	34501.0	27243.3
65°	13093.9	13405.1	15843.6	21025.3	27018.7	30881.8	32534.1	32444.3	33291.4	37285.9	28315.0
67.5°	11403.0	11797.6	13889.6	19263.8	27535.3	34164.1	36422.8	36310.5	36005.7	39111.6	28623.0
70°	9243.7	9455.4	11390.2	16218.9	25472.2	35887.0	39493.4	39374.7	37687.0	39352.2	27166.3
71°	7953.9	8284.3	9917.5	14406.1	23755.7	35360.8	39888.0	39855.9	37690.2	38688.0	26069.0
72.5°	6208.4	6410.6	7854.4	11162.4	20191.1	32370.5	38912.6	39034.6	36872.0	36843.2	23807.0
75°	3927.2	4017.0	4928.2	6571.0	11078.9	22924.7	33217.6	33548.0	32739.5	30156.7	17704.5
77.5°	2281.2	2396.7	2951.8	3872.7	4787.1	12442.5	23768.5	24127.9	22748.2	16604.0	7248.0
80°	1328.3	1456.7	1944.3	2249.2	2197.8	4617.0	12102.4	12715.3	9850.1	4193.5	2034.2
82.5°	738.0	824.6	1366.8	1370.0	1171.1	1508.0	3808.5	3985.0	2810.6	1690.9	831.0
85°	535.8	606.4	882.3	798.9	561.5	648.1	1325.1	1389.3	1135.8	712.3	269.5
87.5°	189.3	269.5	484.5	385.0	154.0	134.8	381.8	311.2	288.8	198.9	61.0
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°	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7	10597.7
2.5°	10655.4	10661.8	10629.7	10572.0	10514.2	10440.4	10357.0	10292.9	10264.0	10260.8	10257.6
5°	10770.9	10787.0	10665.0	10485.4	10286.4	10042.6	9834.0	9596.6	9535.6	9439.4	9468.3
7.5°	10957.0	10947.4	10706.7	10324.9	9859.7	9343.1	8906.8	8653.3	8390.2	8316.4	8319.6
10°	11223.3	11162.4	10706.7	9997.7	9221.2	8454.4	7844.8	7459.8	7251.2	7077.9	7013.8
12.5°	11505.7	11351.7	10604.1	9538.9	8399.8	7459.8	6805.2	6285.4	6150.7	6009.5	6012.7
15°	11775.2	11518.5	10401.9	8893.9	7514.3	6397.7	5762.5	5451.2	5409.5	5425.6	5422.4
17.5°	12019.0	11637.2	10093.9	8175.2	6481.2	5486.5	5149.6	5172.1	5284.4	5364.6	5374.2
20°	12266.1	11707.8	9635.1	7212.7	5505.8	4934.7	4947.5	5124.0	5294.0	5403.1	5419.1
22.5°	12500.3	11739.9	9096.1	6282.2	4799.9	4700.4	4889.7	5079.0	5245.9	5351.8	5367.8
25°	12654.3	11666.1	8332.5	5310.1	4453.4	4617.0	4816.0	4976.4	5117.6	5226.6	5252.3
27.5°	12696.0	11428.7	7386.0	4524.0	4293.0	4536.8	4719.7	4838.4	4947.5	5050.2	5069.4
30°	12673.6	11078.9	6346.4	4062.0	4199.9	4443.8	4584.9	4671.6	4803.1	4883.3	4899.4
32.5°	12638.3	10671.5	5261.9	3814.9	4122.9	4357.1	4440.6	4517.6	4514.4	4482.3	4504.7
35°	12651.1	10183.8	4382.8	3667.3	4055.5	4293.0	4363.6	4267.3	3991.4	3978.5	3965.7
37.5°	12718.5	9702.5	3744.3	3564.6	4020.2	4283.3	4321.8	3879.1	3635.2	3522.9	3494.1
40°	12891.7	9141.0	3324.0	3487.6	4017.0	4357.1	4132.5	3683.4	3214.9	2996.7	2980.7
42.5°	13122.7	8589.1	3067.3	3439.5	4055.5	4469.4	4055.5	3407.4	2897.3	2768.9	2749.7
45°	13466.1	7957.1	2926.1	3417.0	4113.3	4511.1	4029.9	3205.3	2768.9	2666.3	2666.3
47.5°	13854.3	7353.9	2849.1	3401.0	4187.1	4482.3	3802.1	3141.1	2708.0	2720.8	2781.8
50°	14239.3	6830.9	2791.4	3365.7	4251.3	4466.2	3709.0	3137.9	2724.0	2887.6	2996.7
52.5°	14685.3	6461.9	2720.8	3308.0	4251.3	4363.6	3680.1	3202.1	2768.9	2817.1	2865.2
55°	15224.3	6346.4	2631.0	3182.8	4174.3	4106.9	3664.1	3295.1	2801.0	2688.7	2708.0
57.5°	15936.6	6532.5	2544.3	3025.6	3997.8	3840.6	3657.7	3320.8	2727.2	2634.2	2614.9
60°	16764.4	6901.5	2518.7	2865.2	3757.1	3612.8	3619.2	3247.0	2624.5	2528.3	2544.3
62.5°	17345.1	7122.9	2502.6	2743.3	3494.1	3362.5	3526.1	3157.2	2579.6	2496.2	2512.3
65°	17345.1	6853.3	2355.0	2557.2	3154.0	3060.9	3413.8	3044.9	2521.9	2425.6	2409.6
67.5°	16687.4	6067.3	2130.4	2278.0	2778.6	2717.6	3256.6	2910.1	2435.2	2361.5	2323.0
70°	14974.0	4601.0	1848.1	1950.8	2303.7	2358.2	3054.5	2727.2	2290.9	2201.0	2143.3
71°	14220.1	4007.4	1729.4	1783.9	2120.8	2201.0	2958.2	2650.2	2226.7	2098.4	1995.7
72.5°	12766.6	3375.3	1549.7	1572.2	1812.8	1957.2	2756.1	2502.6	2104.8	1921.9	1806.4
75°	9699.3	2464.1	1248.1	1235.3	1341.2	1552.9	2332.6	2229.9	1844.9	1597.8	1530.5
77.5°	4190.3	1341.2	933.7	943.3	911.2	1177.5	1835.3	1915.5	1581.8	1299.4	1238.5
80°	1270.6	773.2	638.5	651.3	609.6	789.3	1293.0	1501.6	1270.6	1010.7	927.3
82.5°	651.3	462.0	436.4	429.9	388.2	446.0	782.9	1026.7	908.0	632.1	558.3
85°	282.3	247.1	215.0	208.6	182.9	160.4	279.1	513.4	481.3	352.9	336.9
87.5°	70.6	64.2	41.7	38.5	22.5	3.2	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)