

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: P454444

Luminaire Tested: **GALN-SA5C-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35881 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

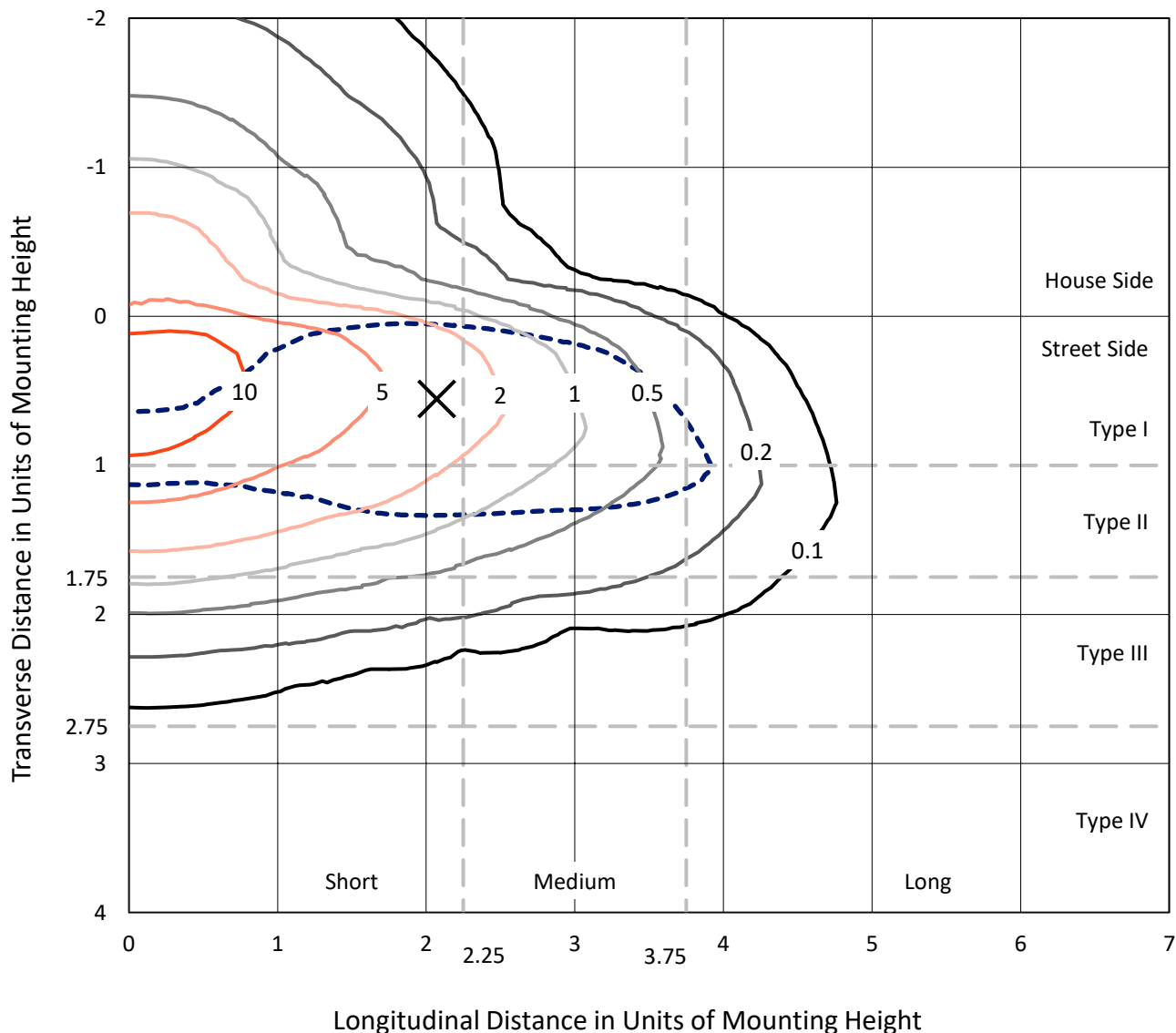
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

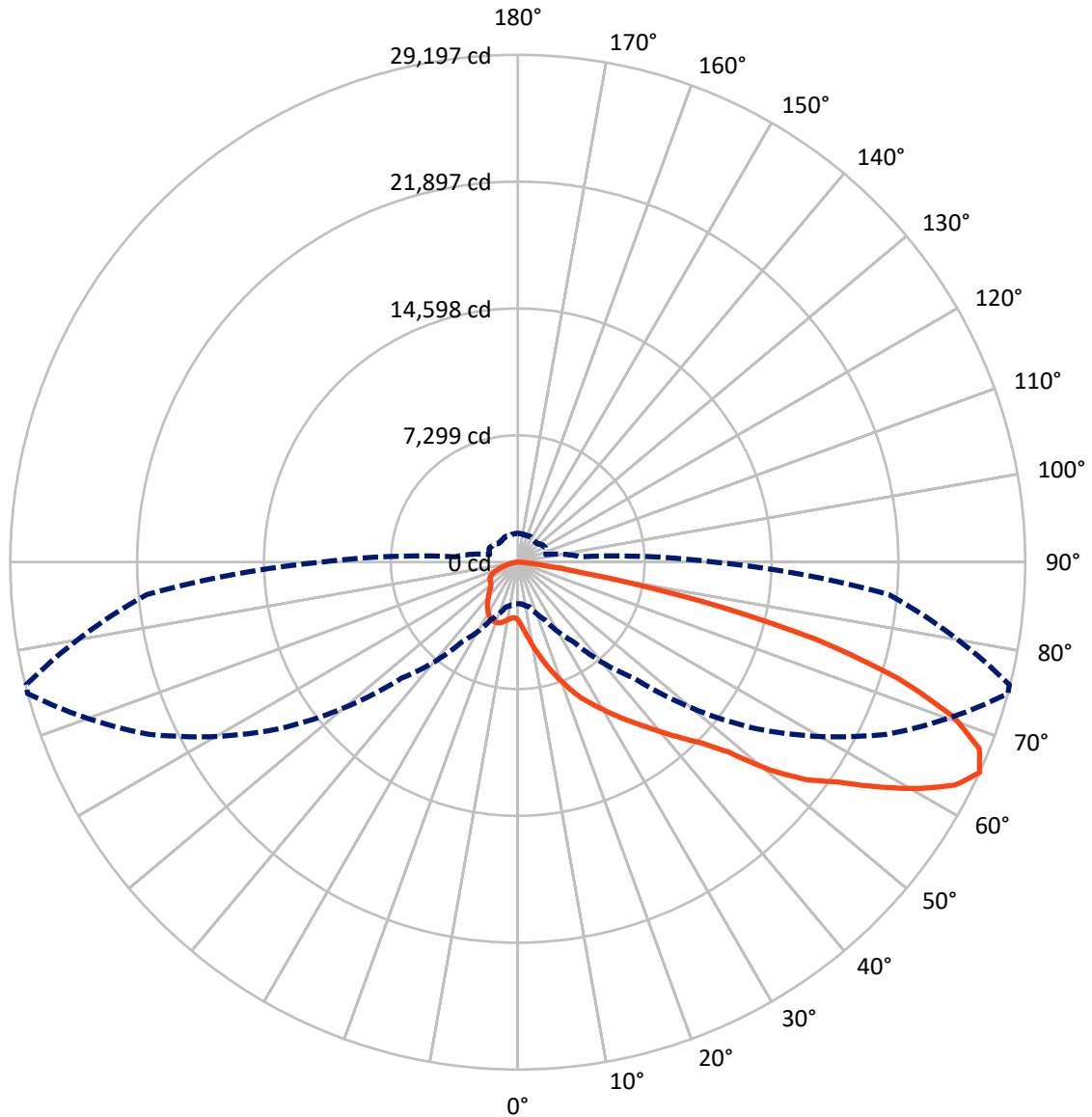
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6032.1	0.0	6032.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29848.9	0.0	29848.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	35881.0	0.0	35881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	1.1
10°-20°	1586.5	4.4
20°-30°	3064.6	8.5
30°-40°	4977.8	13.9
40°-50°	6847.5	19.1
50°-60°	8084.5	22.5
60°-70°	7083.4	19.7
70°-80°	3381.7	9.4
80°-90°	450.0	1.3
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°	35881.0	100.0
0°-180°	35881.0	100.0

Coefficient of Utilization



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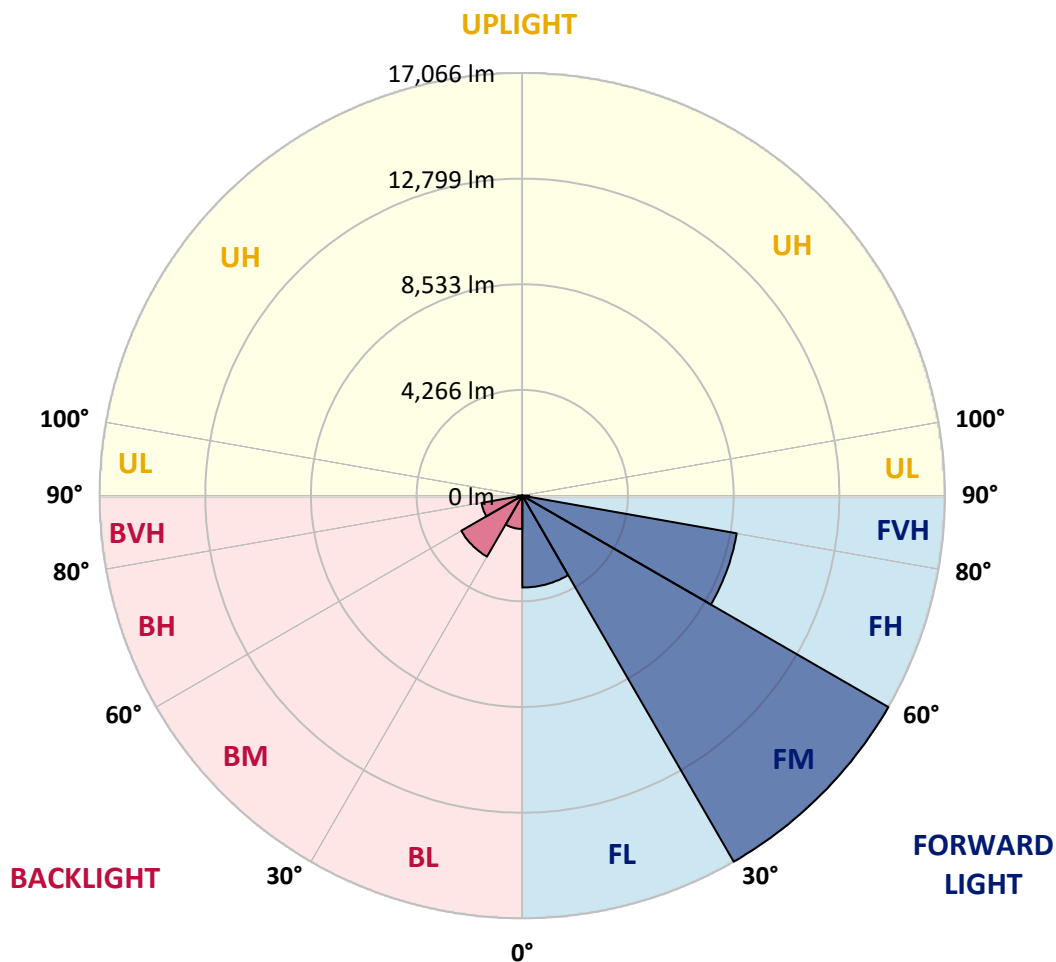
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3709.5	10.3			
FM	(30°-60°)	17065.8	47.6			
FH	(60°-80°)	8792.5	24.5			G4/12000
FVH	(80°-90°)	281.2	0.8			G3/500
BL	(0°-30°)	1346.6	3.8	B3/2500		
BM	(30°-60°)	2844.1	7.9	B3/5000		
BH	(60°-80°)	1672.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	168.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
2.5°	4429.5	4400.3	4369.2	4283.5	4192.1	4088.9	3941.0	3798.9	3610.2	3604.3	3464.2
5°	5657.5	5638.1	5499.9	5420.1	5208.0	4925.8	4686.4	4314.7	3970.2	3929.3	3656.9
7.5°	6786.3	6710.4	6657.9	6513.8	6303.7	5941.7	5478.5	4976.4	4400.3	4345.8	3894.3
10°	7636.8	7629.0	7601.8	7477.2	7319.6	6959.5	6445.7	5725.6	4945.2	4838.2	4182.3
12.5°	8273.2	8279.0	8275.1	8273.2	8160.3	7854.8	7298.2	6539.1	5496.0	5420.1	4515.1
15°	8691.6	8750.0	8773.4	8870.7	8880.4	8676.0	8197.3	7325.4	6116.8	6004.0	4873.2
17.5°	8968.0	8997.2	9106.2	9271.6	9405.9	9368.9	8942.7	8053.3	6751.3	6562.5	5244.9
20°	9232.7	9283.3	9366.9	9592.7	9830.1	9939.1	9639.4	8798.7	7379.9	7259.2	5655.6
22.5°	9783.4	9855.4	9884.6	9999.4	10201.9	10394.5	10258.3	9512.9	8068.8	7905.4	6091.5
25°	10715.6	10791.5	10709.8	10682.6	10748.7	10844.1	10814.9	10186.3	8718.9	8485.3	6504.1
27.5°	11930.1	11939.8	11780.2	11628.4	11464.9	11416.3	11326.7	10783.8	9283.3	9088.6	6918.7
30°	13234.0	13187.3	12922.6	12648.2	12371.8	12099.4	11842.5	11359.8	9911.9	9688.1	7325.4
32.5°	14444.5	14419.2	14125.3	13699.1	13232.0	12975.1	12455.5	11941.7	10585.2	10369.2	7743.8
35°	15351.4	15388.4	15065.3	14600.2	14090.3	13862.6	13206.7	12552.8	11282.0	11046.5	8199.2
37.5°	15995.6	15976.2	15690.1	15287.2	14839.6	14641.1	14084.5	13220.4	12031.3	11805.5	8697.5
40°	16225.3	16213.6	16001.5	15707.6	15423.4	15353.4	15003.1	13940.5	12889.5	12624.8	9296.9
42.5°	16079.3	16104.6	15964.5	15884.7	15832.1	15882.7	15915.8	14884.3	13825.6	13582.4	9946.9
45°	15631.7	15618.1	15598.6	15729.0	16024.8	16357.6	16818.8	15775.7	14843.5	14648.9	10818.8
47.5°	14831.8	14929.1	14977.8	15337.8	15983.9	16772.1	17858.1	16970.6	16320.6	16151.3	12148.0
50°	13712.8	13790.6	14078.6	14718.9	15682.3	16927.8	18874.0	18924.6	18784.5	18467.3	13592.1
52.5°	11965.1	12085.7	12679.3	13852.9	15063.4	16863.6	19489.0	20600.3	20785.2	20547.7	15014.7
55°	10009.2	10178.5	10805.2	12344.6	14211.0	16513.3	19913.3	21571.4	22309.0	22089.1	16384.8
57.5°	8094.1	8273.2	8917.4	10408.1	12724.1	15738.7	20191.6	22653.5	24383.6	24097.5	18089.7
60°	6066.2	6253.1	6805.8	8341.3	10606.7	14224.6	20002.8	23591.5	26456.3	26333.7	19796.5
62.5°	3913.8	4120.1	4600.8	5871.6	8152.5	12155.8	18992.7	24109.2	28250.7	28102.8	21042.0
65°	2384.1	2407.4	2672.1	3645.2	5579.7	9411.7	16682.6	23422.2	29196.5	29151.8	21421.6
67.5°	1541.4	1578.3	1699.0	2183.6	3345.5	6537.2	13339.1	21154.9	28643.8	28628.2	20637.2
70°	1302.0	1313.7	1368.2	1473.3	1944.2	3964.4	9366.9	17540.9	26543.9	26543.9	18751.4
72.5°	1163.8	1179.4	1198.8	1231.9	1387.6	2245.9	5589.4	13654.4	22918.2	23070.0	15960.6
75°	1056.8	1052.9	1064.6	1070.4	1183.3	1467.4	2890.1	10098.7	17729.7	17426.1	11558.3
77.5°	905.0	910.8	905.0	930.3	1045.1	1117.1	1467.4	6776.6	10744.8	10351.7	5801.5
80°	743.4	753.2	762.9	778.5	893.3	848.5	881.6	3088.6	3974.1	3890.4	1792.4
82.5°	558.6	572.2	587.7	624.7	702.6	560.5	556.6	1319.5	1434.3	1313.7	659.8
85°	225.8	266.6	402.9	439.8	441.8	307.5	342.5	550.8	585.8	572.2	258.8
87.5°	52.5	62.3	130.4	196.6	181.0	114.8	126.5	179.0	204.3	188.8	87.6
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°	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8	3333.8
2.5°	3400.0	3331.9	3215.1	3125.6	3061.3	3004.9	2969.9	2948.5	2940.7	2938.7	2940.7
5°	3514.8	3394.1	3209.2	3092.5	3028.2	2991.3	2969.9	2967.9	2969.9	2971.8	2966.0
7.5°	3672.4	3499.2	3257.9	3148.9	3100.3	3073.0	3063.3	3059.4	3061.3	3059.4	3059.4
10°	3882.6	3645.2	3353.3	3240.4	3199.5	3168.4	3152.8	3143.1	3135.3	3127.5	3123.6
12.5°	4114.2	3806.7	3456.4	3347.4	3289.0	3240.4	3205.4	3180.1	3162.5	3145.0	3141.1
15°	4373.1	3978.0	3571.2	3419.4	3335.7	3263.7	3203.4	3162.5	3131.4	3106.1	3104.1
17.5°	4620.2	4139.5	3649.1	3452.5	3329.9	3228.7	3148.9	3092.5	3053.5	3020.5	3016.6
20°	4884.9	4293.3	3684.1	3431.1	3271.5	3148.9	3043.8	2975.7	2930.9	2894.0	2888.1
22.5°	5151.5	4423.7	3680.2	3363.0	3170.3	3026.3	2915.4	2843.4	2790.8	2753.8	2740.2
25°	5406.5	4528.7	3631.6	3254.0	3030.2	2880.3	2767.5	2701.3	2654.6	2609.8	2609.8
27.5°	5636.1	4591.0	3540.1	3121.7	2886.2	2728.5	2639.0	2578.7	2535.9	2506.7	2489.2
30°	5861.9	4620.2	3415.5	2954.3	2734.4	2600.1	2528.1	2493.1	2454.1	2421.0	2417.1
32.5°	6064.3	4614.4	3259.8	2790.8	2590.4	2495.0	2465.8	2438.6	2397.7	2351.0	2339.3
35°	6260.8	4575.5	3075.0	2611.8	2469.7	2432.7	2440.5	2401.6	2327.6	2269.2	2259.5
37.5°	6474.9	4505.4	2872.6	2465.8	2368.5	2403.5	2423.0	2337.4	2216.7	2125.2	2103.8
40°	6722.1	4425.6	2662.4	2319.8	2288.7	2376.3	2376.3	2218.6	2053.2	1996.8	1981.2
42.5°	7012.1	4359.4	2487.2	2197.2	2222.5	2310.1	2300.4	2061.0	1992.9	1963.7	1955.9
45°	7471.4	4336.1	2306.2	2090.2	2168.0	2232.3	2152.5	2006.5	1967.6	1944.2	1936.4
47.5°	8197.3	4363.3	2146.6	2010.4	2105.8	2154.4	1987.0	1969.5	1942.3	1909.2	1905.3
50°	8870.7	4338.0	2033.8	1965.6	2051.3	2061.0	1918.9	1924.8	1909.2	1872.2	1864.4
52.5°	9421.4	4258.2	1961.7	1942.3	2004.6	1897.5	1854.7	1876.1	1870.3	1823.6	1815.8
55°	10026.7	4209.6	1926.7	1942.3	1973.4	1755.5	1794.4	1825.5	1817.7	1784.6	1782.7
57.5°	10760.4	4219.3	1901.4	1948.1	1942.3	1683.4	1734.0	1771.0	1769.1	1759.3	1759.3
60°	11511.6	4223.2	1862.5	1946.2	1905.3	1627.0	1671.8	1724.3	1728.2	1734.0	1734.0
62.5°	11760.7	4053.9	1786.6	1911.1	1823.6	1572.5	1613.4	1685.4	1681.5	1697.1	1699.0
65°	11295.6	3584.9	1673.7	1831.4	1718.5	1533.6	1568.6	1634.8	1613.4	1654.2	1662.0
67.5°	10281.6	2966.0	1498.6	1687.3	1601.7	1492.7	1539.4	1564.7	1525.8	1605.6	1607.5
70°	8886.2	2315.9	1276.7	1483.0	1469.4	1449.9	1516.1	1477.1	1422.7	1520.0	1500.5
72.5°	7430.5	1769.1	1019.8	1212.5	1292.3	1385.7	1475.2	1364.3	1288.4	1317.6	1282.5
75°	5581.6	1307.8	819.3	949.7	1076.2	1294.2	1438.2	1228.0	1111.3	1084.0	1076.2
77.5°	2845.3	854.4	613.0	710.4	807.7	1169.7	1387.6	1068.5	920.5	877.7	858.3
80°	1015.9	531.3	432.1	490.4	544.9	1006.2	1212.5	883.6	714.2	706.5	714.2
82.5°	471.0	342.5	290.0	321.1	323.1	671.4	924.4	659.8	543.0	825.2	696.7
85°	202.4	171.3	163.5	159.6	147.9	299.7	519.6	354.2	552.7	247.2	227.7
87.5°	60.3	68.1	60.3	44.8	33.1	33.1	52.5	19.5	13.6	9.7	9.7
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)