

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: P454417

Luminaire Tested: **GALN-SA5C-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31797 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

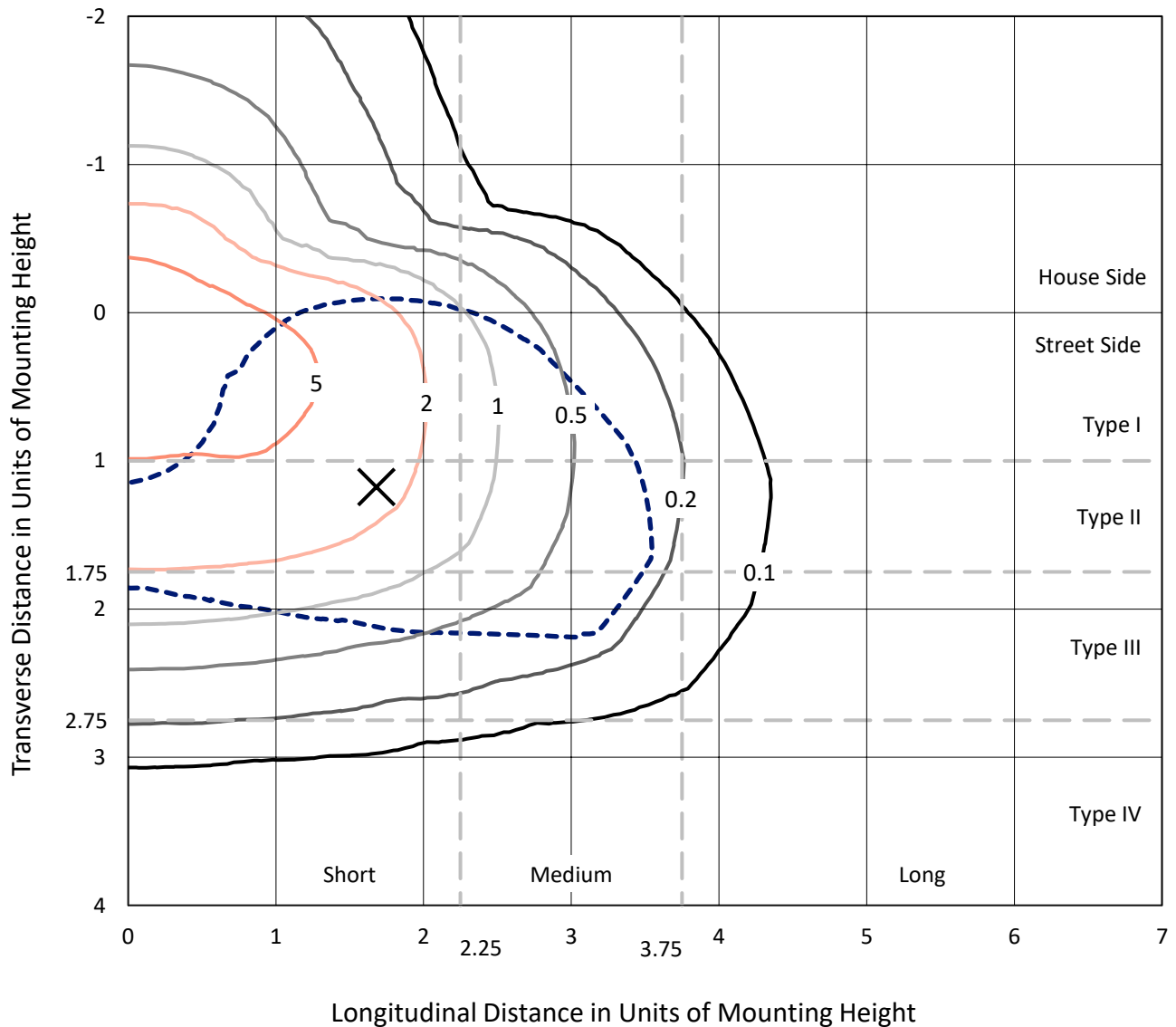
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

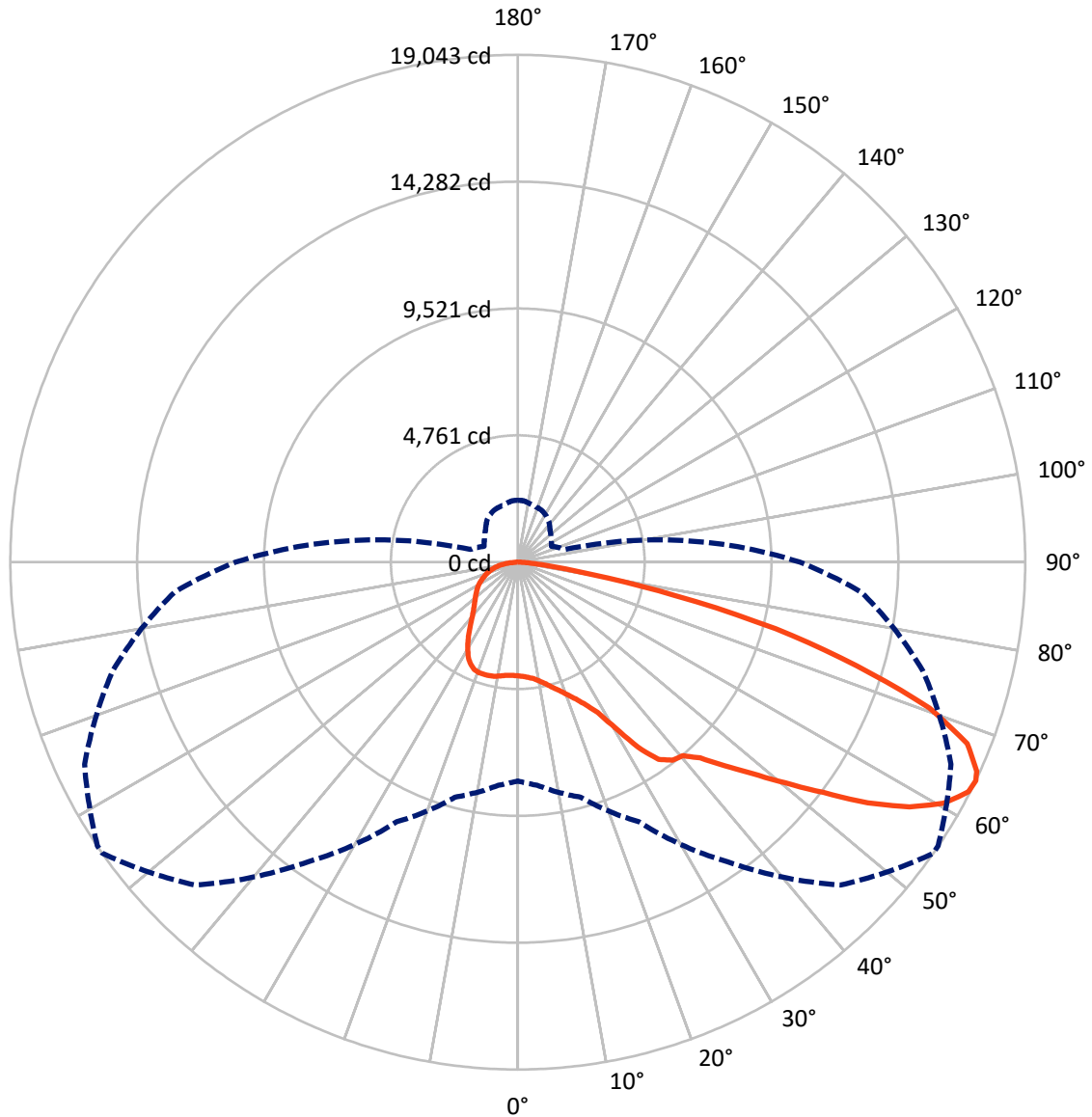
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7724.1	0.0	7724.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	24072.9	0.0	24072.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	31797.0	0.0	31797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	1.3
10°-20°	1309.4	4.1
20°-30°	2331.1	7.3
30°-40°	3586.6	11.3
40°-50°	5084.4	16.0
50°-60°	7359.5	23.1
60°-70°	7616.3	24.0
70°-80°	3566.7	11.2
80°-90°	528.0	1.7
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°	31797.0	100.0
0°-180°	31797.0	100.0

Coefficient of Utilization



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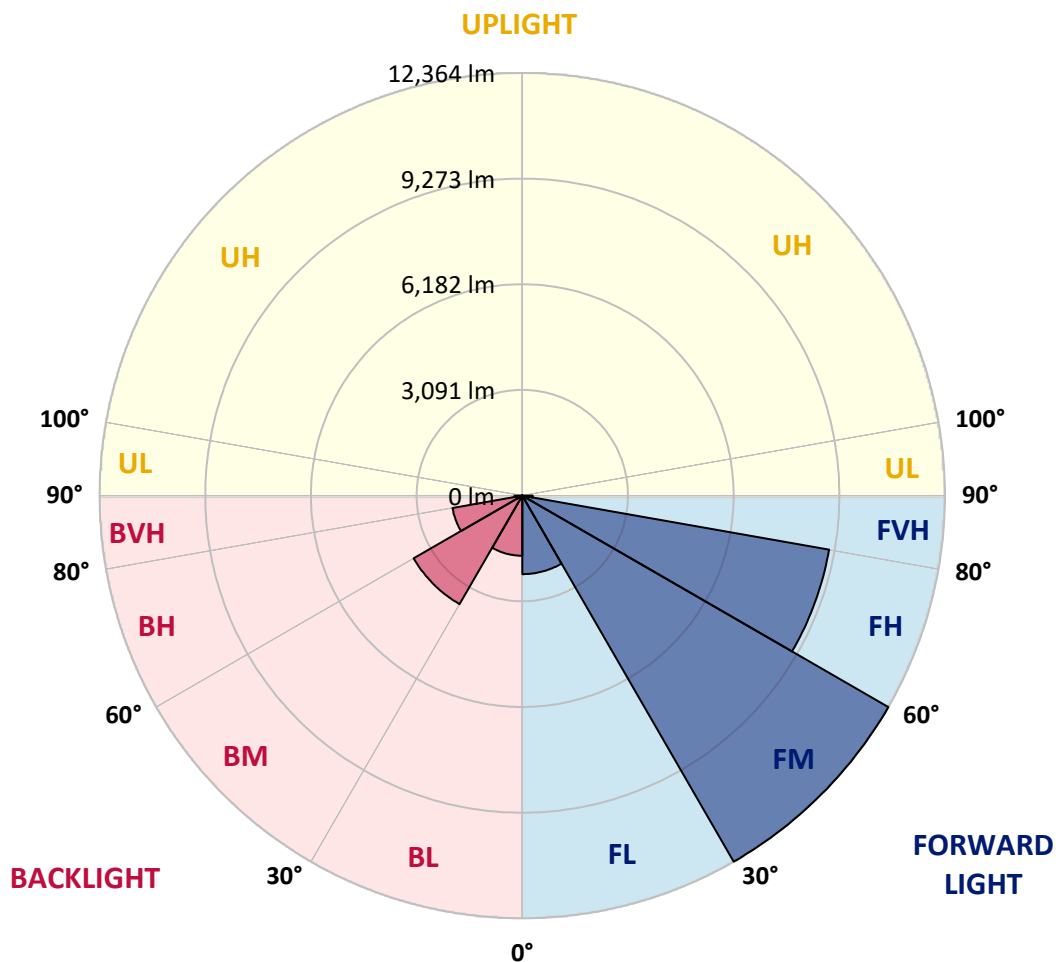
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2296.3	7.2			
FM	(30°-60°)	12363.5	38.9			
FH	(60°-80°)	9110.8	28.7			G4/12000
FVH	(80°-90°)	302.3	1.0			G3/500
BL	(0°-30°)	1759.3	5.5	B3/2500		
BM	(30°-60°)	3666.9	11.5	B3/5000		
BH	(60°-80°)	2072.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	225.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2
2.5°	4314.1	4312.3	4317.6	4312.3	4315.8	4303.4	4298.1	4301.6	4296.3	4287.5	4271.5
5°	4367.2	4365.5	4367.2	4360.1	4363.7	4356.6	4344.2	4347.7	4338.9	4319.4	4296.3
7.5°	4457.6	4450.5	4450.5	4448.8	4441.7	4431.0	4422.2	4418.6	4409.8	4384.9	4349.5
10°	4574.6	4574.6	4576.4	4562.2	4571.1	4551.6	4542.7	4540.9	4510.8	4478.9	4429.3
12.5°	4728.8	4737.7	4732.3	4725.3	4721.7	4714.6	4684.5	4691.6	4657.9	4603.0	4542.7
15°	4920.2	4934.4	4925.5	4922.0	4913.1	4886.5	4874.1	4868.8	4824.5	4744.7	4665.0
17.5°	5173.7	5155.9	5148.9	5140.0	5102.8	5083.3	5062.0	5058.5	5019.5	4925.5	4801.5
20°	5395.2	5420.0	5405.9	5397.0	5359.8	5322.6	5306.6	5301.3	5267.6	5164.8	4966.3
22.5°	5659.3	5664.6	5669.9	5648.7	5631.0	5602.6	5574.2	5565.4	5553.0	5446.6	5203.8
25°	5941.1	5962.4	5944.7	5923.4	5902.1	5900.4	5926.9	5923.4	5918.1	5815.3	5519.3
27.5°	6400.2	6419.7	6425.0	6402.0	6320.4	6327.5	6387.8	6407.3	6488.8	6318.7	5925.2
30°	6659.0	6678.5	6722.8	6809.6	6939.0	7052.4	7197.8	7242.1	7320.1	6999.3	6407.3
32.5°	6818.5	6825.6	6905.3	7066.6	7454.8	7878.4	8273.6	8289.6	8339.2	7889.0	6848.6
35°	7070.2	7075.5	7139.3	7316.5	7772.0	8477.5	9088.9	9108.4	9067.7	8165.5	7054.2
37.5°	7380.3	7394.5	7435.3	7582.4	8126.5	8979.0	9427.5	9413.3	9051.7	8385.3	7417.5
40°	7832.3	7832.3	7784.4	7982.9	8500.5	9266.2	9546.2	9521.4	9425.7	9021.6	7970.5
42.5°	8231.1	8224.0	8337.4	8472.1	8968.4	9709.3	10044.3	10085.0	10242.8	9820.9	8599.7
45°	8750.4	8782.3	8846.1	9090.7	9764.2	10466.1	10898.6	10937.6	11160.9	10762.1	9335.3
47.5°	9275.0	9285.7	9486.0	9812.1	10749.7	11492.3	11846.8	11910.6	12114.4	11862.8	10127.6
50°	9647.2	9748.3	10069.1	10583.1	11765.3	12743.6	13020.1	13096.4	13456.2	13060.9	11051.0
52.5°	10040.7	10140.0	10531.7	11315.1	12931.5	14023.3	14363.6	14415.0	14789.0	14273.2	11995.7
55°	10377.5	10469.6	10914.5	11963.8	13860.3	15329.6	15946.4	15886.1	16065.1	15207.3	12724.2
57.5°	10432.4	10506.9	11066.9	12378.5	14558.6	16449.8	17334.2	17369.6	17162.3	15905.6	13325.0
60°	10007.0	10159.5	10802.9	12334.2	14872.3	17229.6	18369.3	18394.1	17805.7	16263.7	13564.3
62.5°	9253.8	9237.8	10015.9	11621.7	14432.8	17406.9	18979.0	18952.4	18057.3	16091.7	13332.1
64°	8213.4	8404.8	9131.5	10746.1	13723.8	17133.9	19042.8	19028.6	17936.8	15733.7	12936.8
65°	7578.8	7568.2	8286.0	10030.1	13018.4	16722.7	18929.4	18909.9	17685.1	15412.9	12630.2
67.5°	5471.4	5496.3	6205.2	7740.1	10583.1	15115.1	18190.3	18117.6	16692.6	14349.5	11464.0
70°	3314.4	3328.6	3885.1	5134.7	7596.6	12219.0	16396.6	16400.1	15173.6	12761.4	9757.1
72.5°	1745.8	1783.0	2006.4	2915.6	4613.6	8573.2	13302.0	13617.4	13027.2	10891.5	7708.2
75°	971.3	976.6	1134.3	1437.4	2353.8	4797.9	9998.2	10088.6	10313.7	8766.4	5700.1
77.5°	740.9	751.5	801.1	928.7	1281.5	2224.4	6051.0	6504.8	7268.7	6180.4	3252.4
80°	600.8	611.5	654.0	730.2	852.5	1054.6	2811.0	3055.6	3890.4	2743.7	1269.0
82.5°	467.9	460.8	515.8	565.4	620.3	623.9	1153.8	1276.1	1584.5	1180.4	549.4
85°	347.4	347.4	391.7	381.1	400.6	365.1	508.7	561.9	634.5	501.6	255.2
87.5°	138.2	152.4	257.0	230.4	179.0	143.6	187.9	198.5	219.8	196.7	106.3
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°	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2	4266.2
2.5°	4273.3	4278.6	4266.2	4257.3	4253.8	4248.5	4243.2	4244.9	4252.0	4259.1	4257.3
5°	4294.6	4296.3	4275.1	4264.4	4257.3	4250.2	4250.2	4255.6	4269.7	4280.4	4280.4
7.5°	4347.7	4347.7	4317.6	4298.1	4287.5	4275.1	4271.5	4273.3	4283.9	4298.1	4299.9
10°	4431.0	4423.9	4384.9	4354.8	4335.3	4305.2	4278.6	4264.4	4269.7	4278.6	4278.6
12.5°	4532.1	4512.6	4462.9	4422.2	4374.3	4317.6	4262.7	4234.3	4232.5	4241.4	4237.8
15°	4640.2	4618.9	4549.8	4475.3	4392.0	4308.7	4243.2	4202.4	4170.5	4161.6	4181.1
17.5°	4766.0	4721.7	4626.0	4523.2	4399.1	4291.0	4188.2	4104.9	4048.2	4032.2	4037.6
20°	4918.4	4860.0	4730.6	4569.3	4393.8	4227.2	4067.7	3956.0	3863.9	3835.5	3839.0
22.5°	5129.4	5028.3	4838.7	4592.3	4349.5	4106.7	3885.1	3739.8	3628.1	3583.8	3610.4
25°	5368.6	5258.7	4941.5	4587.0	4234.3	3913.5	3668.9	3479.2	3378.2	3312.6	3326.8
27.5°	5698.3	5503.3	5051.4	4539.1	4069.5	3677.8	3394.2	3215.2	3123.0	3089.3	3105.3
30°	6120.1	5820.6	5170.1	4409.8	3808.9	3380.0	3117.7	3000.7	2945.8	2903.2	2917.4
32.5°	6425.0	6043.9	5196.7	4191.8	3527.1	3108.8	2929.8	2843.0	2782.7	2741.9	2750.8
35°	6643.0	6233.6	5184.3	3924.1	3232.9	2885.5	2780.9	2710.0	2612.5	2523.9	2508.0
37.5°	6935.5	6471.1	5093.9	3631.7	2942.2	2734.8	2660.4	2529.2	2389.2	2270.5	2265.1
40°	7383.9	6749.3	4900.7	3287.8	2694.1	2623.2	2532.8	2362.6	2212.0	2116.3	2109.2
42.5°	7846.5	7006.3	4638.4	2926.3	2490.2	2506.2	2396.3	2227.9	2135.8	2073.7	2066.6
45°	8411.9	7284.6	4354.8	2612.5	2339.6	2396.3	2277.6	2180.1	2125.1	2084.4	2073.7
47.5°	9023.4	7570.0	4035.8	2330.7	2212.0	2295.3	2227.9	2183.6	2153.5	2125.1	2112.7
50°	9682.7	7889.0	3736.2	2103.9	2096.8	2190.7	2222.6	2206.7	2188.9	2180.1	2169.4
52.5°	10405.8	8215.1	3484.6	1944.3	1995.7	2116.3	2224.4	2236.8	2236.8	2231.5	2224.4
55°	10895.0	8442.0	3229.3	1815.0	1892.9	2056.0	2220.8	2268.7	2286.4	2279.3	2272.2
57.5°	11256.6	8566.1	2908.5	1703.3	1806.1	1997.5	2201.3	2272.2	2290.0	2298.8	2295.3
60°	11331.0	8450.9	2488.5	1586.3	1712.2	1912.4	2130.4	2219.1	2242.1	2297.0	2302.4
62.5°	10996.0	8096.4	2070.2	1471.1	1596.9	1783.0	2034.7	2158.8	2204.9	2290.0	2298.8
64°	10584.8	7699.4	1838.0	1398.4	1522.5	1710.4	1986.9	2142.8	2203.1	2316.5	2323.6
65°	10283.5	7410.5	1692.7	1352.4	1474.6	1662.5	1960.3	2148.2	2219.1	2357.3	2367.9
67.5°	9174.0	6416.1	1400.2	1244.2	1361.2	1581.0	1965.6	2192.5	2215.5	2373.3	2371.5
70°	7591.2	5108.1	1173.3	1145.0	1251.3	1515.4	1944.3	2121.6	2123.4	2227.9	2203.1
72.5°	5684.1	3775.2	1017.4	1042.2	1129.0	1359.4	1836.2	2025.9	1995.7	2009.9	1985.1
75°	3904.6	2497.3	875.6	932.3	1001.4	1201.7	1683.8	1839.8	1791.9	1774.2	1756.5
77.5°	2084.4	1380.7	728.5	824.2	870.3	1038.6	1469.3	1620.0	1570.4	1501.2	1478.2
80°	843.7	650.5	586.7	682.4	709.0	836.6	1223.0	1316.9	1279.7	1159.2	1120.2
82.5°	423.6	389.9	460.8	537.0	538.8	597.3	909.2	997.9	914.6	767.5	733.8
85°	221.6	228.6	317.3	377.5	333.2	322.6	545.9	604.4	554.8	482.1	434.2
87.5°	79.8	92.2	166.6	164.8	117.0	62.0	120.5	58.5	31.9	19.5	24.8
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)