

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: P455606

Luminaire Tested: **GALN-SA6D-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455606
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-SA6D-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45491 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

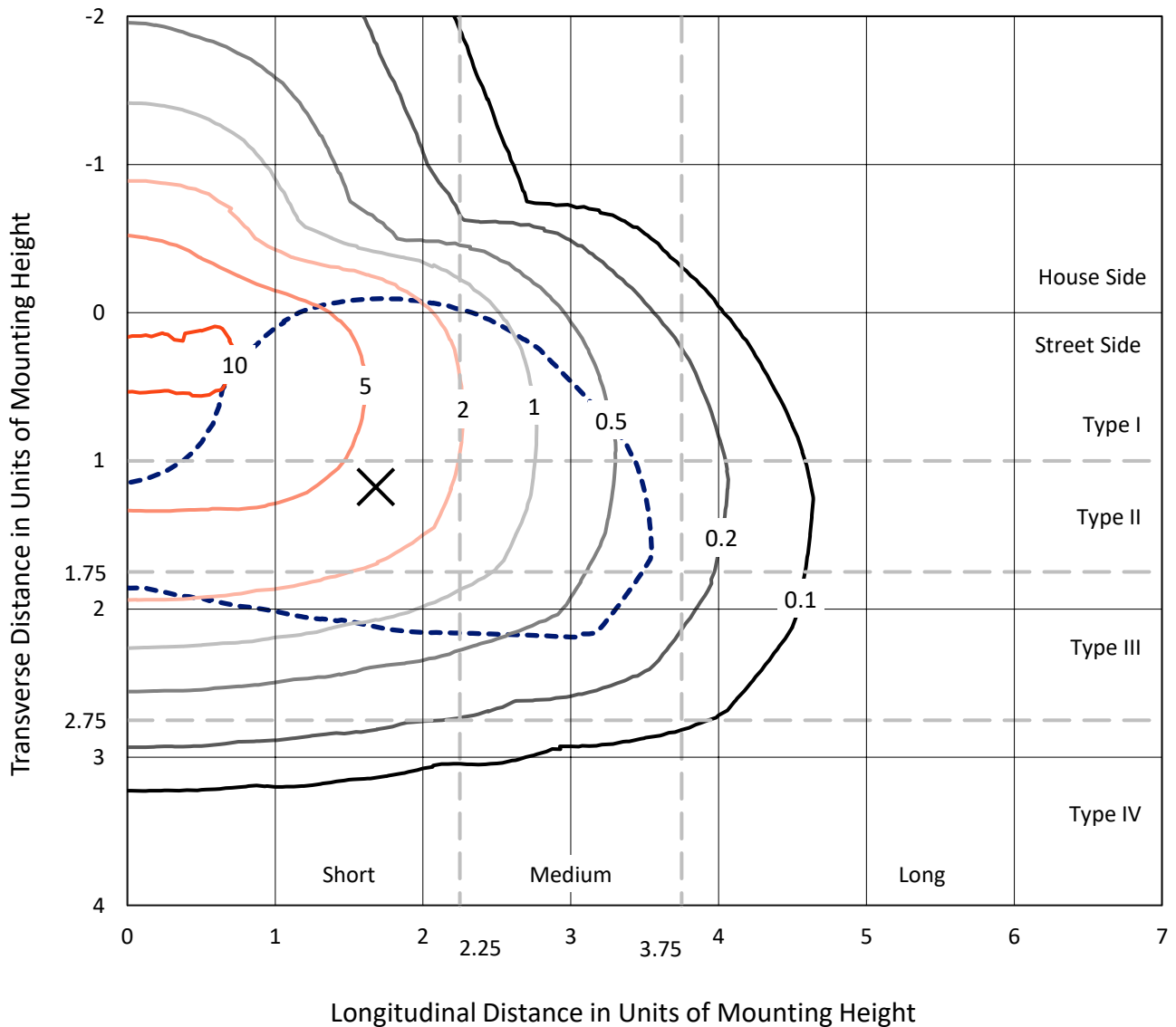
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

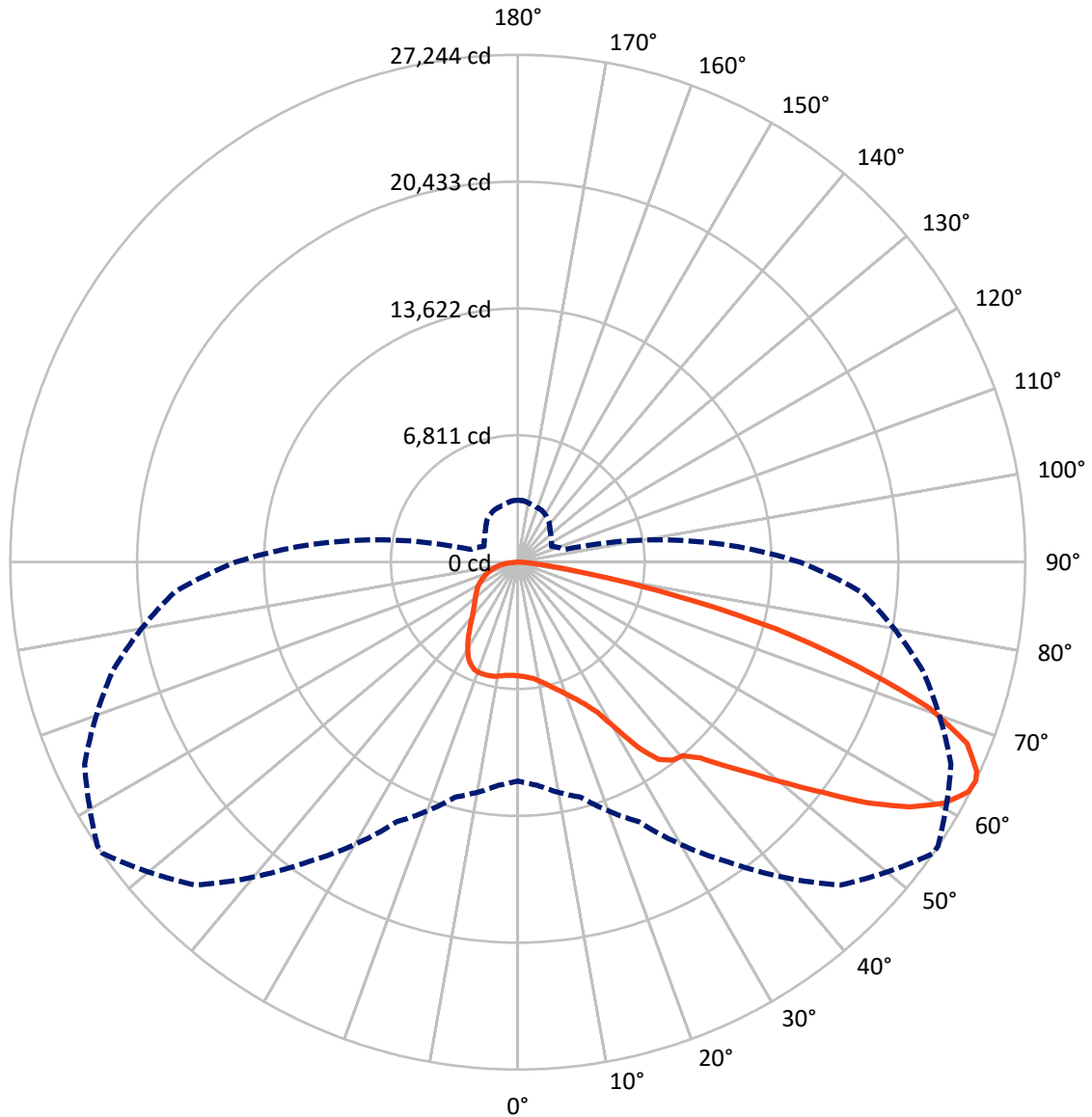
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	11050.7	0.0	11050.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	34440.3	0.0	34440.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	45491.0	0.0	45491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.7	1.3
10°-20°	1873.3	4.1
20°-30°	3335.0	7.3
30°-40°	5131.3	11.3
40°-50°	7274.0	16.0
50°-60°	10529.0	23.1
60°-70°	10896.4	24.0
70°-80°	5102.8	11.2
80°-90°	755.4	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°	45491.0	100.0
0°-180°	45491.0	100.0

Coefficient of Utilization



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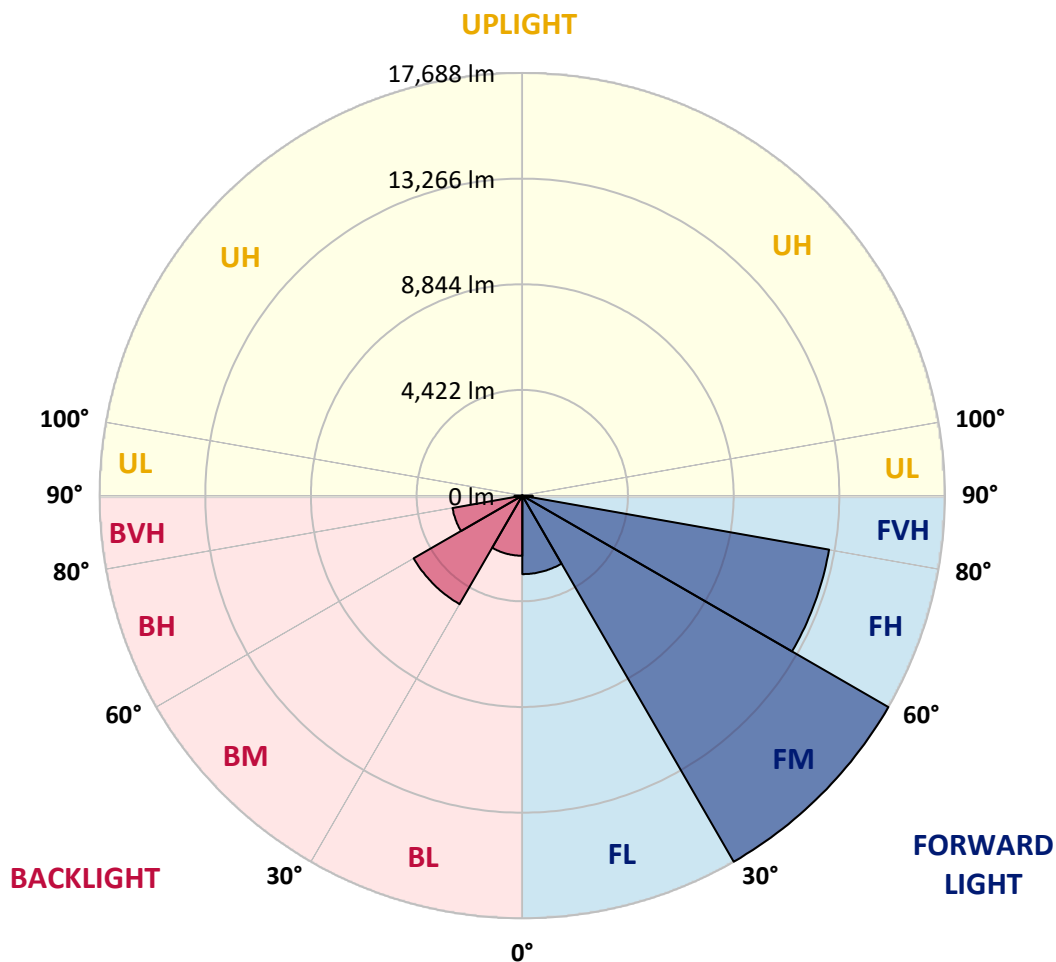
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3285.2	7.2			
FM	(30°-60°)	17688.1	38.9			
FH	(60°-80°)	13034.5	28.7			G5
FVH	(80°-90°)	432.5	1.0			G3/500
BL	(0°-30°)	2516.9	5.5	B4/5000		
BM	(30°-60°)	5246.2	11.5	B4/8500		
BH	(60°-80°)	2964.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	322.9	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5
2.5°	6172.0	6169.4	6177.1	6169.4	6174.5	6156.8	6149.2	6154.2	6146.6	6133.9	6111.1
5°	6248.1	6245.5	6248.1	6237.9	6243.0	6232.8	6215.1	6220.2	6207.5	6179.6	6146.6
7.5°	6377.4	6367.2	6367.2	6364.7	6354.6	6339.3	6326.7	6321.6	6308.9	6273.4	6222.7
10°	6544.7	6544.7	6547.3	6527.0	6539.7	6511.8	6499.1	6496.6	6453.5	6407.8	6336.8
12.5°	6765.3	6778.0	6770.4	6760.3	6755.2	6745.1	6702.0	6712.1	6663.9	6585.3	6499.1
15°	7039.2	7059.5	7046.8	7041.7	7029.1	6991.0	6973.3	6965.7	6902.3	6788.2	6674.1
17.5°	7401.8	7376.5	7366.3	7353.6	7300.4	7272.5	7242.1	7237.0	7181.2	7046.8	6869.3
20°	7718.8	7754.3	7734.0	7721.3	7668.1	7614.8	7592.0	7584.4	7536.2	7389.1	7105.1
22.5°	8096.6	8104.2	8111.8	8081.4	8056.0	8015.5	7974.9	7962.2	7944.5	7792.3	7444.9
25°	8499.8	8530.2	8504.9	8474.4	8444.0	8441.5	8479.5	8474.4	8466.8	8319.8	7896.3
27.5°	9156.5	9184.4	9192.0	9159.1	9042.4	9052.6	9138.8	9166.7	9283.3	9039.9	8477.0
30°	9526.8	9554.7	9618.1	9742.3	9927.4	10089.7	10297.6	10361.0	10472.6	10013.6	9166.7
32.5°	9755.0	9765.1	9879.2	10110.0	10665.3	11271.4	11836.8	11859.6	11930.6	11286.6	9798.1
35°	10115.1	10122.7	10213.9	10467.5	11119.2	12128.4	13003.3	13031.2	12972.8	11682.1	10092.2
37.5°	10558.8	10579.1	10637.4	10847.9	11626.4	12846.0	13487.6	13467.3	12950.0	11996.6	10612.1
40°	11205.4	11205.4	11137.0	11421.0	12161.4	13256.8	13657.5	13622.0	13485.0	12906.9	11403.2
42.5°	11776.0	11765.8	11928.1	12120.8	12830.8	13890.8	14370.0	14428.3	14654.0	14050.5	12303.4
45°	12518.9	12564.6	12655.9	13005.8	13969.4	14973.5	15592.2	15648.0	15967.5	15397.0	13355.7
47.5°	13269.5	13284.7	13571.3	14037.8	15379.2	16441.7	16948.9	17040.2	17331.8	16971.7	14489.2
50°	13802.0	13946.6	14405.5	15140.9	16832.2	18231.9	18627.5	18736.6	19251.3	18685.8	15810.3
52.5°	14365.0	14507.0	15067.3	16188.1	18500.7	20062.8	20549.6	20623.1	21158.2	20420.3	17161.9
55°	14846.7	14978.6	15615.1	17116.2	19829.5	21931.6	22814.0	22727.8	22983.9	21756.6	18204.1
57.5°	14925.3	15031.8	15833.1	17709.6	20828.5	23534.2	24799.5	24850.2	24553.5	22755.7	19063.7
60°	14316.8	14534.8	15455.3	17646.2	21277.4	24649.9	26280.4	26315.9	25474.0	23267.9	19406.0
62.5°	13239.1	13216.3	14329.5	16626.8	20648.5	24903.5	27152.7	27114.6	25834.1	23022.0	19073.8
64°	11750.6	12024.5	13064.1	15374.2	19634.2	24513.0	27244.0	27223.7	25661.7	22509.7	18508.3
65°	10842.8	10827.6	11854.6	14349.7	18625.0	23924.7	27081.7	27053.8	25301.6	22050.8	18069.7
67.5°	7827.8	7863.3	8877.6	11073.6	15140.9	21624.8	26024.3	25920.3	23881.6	20529.3	16401.1
70°	4741.8	4762.1	5558.3	7346.0	10868.2	17481.4	23458.1	23463.2	21708.4	18257.3	13959.2
72.5°	2497.7	2551.0	2870.5	4171.3	6600.5	12265.4	19030.7	19482.1	18637.7	15582.1	11027.9
75°	1389.6	1397.2	1622.9	2056.5	3367.5	6864.2	14304.1	14433.4	14755.5	12541.8	8154.9
77.5°	1059.9	1075.2	1146.2	1328.7	1833.3	3182.4	8657.0	9306.2	10399.1	8842.1	4653.1
80°	859.6	874.8	935.7	1044.7	1219.7	1508.8	4021.7	4371.6	5565.9	3925.3	1815.6
82.5°	669.4	659.3	737.9	808.9	887.5	892.6	1650.8	1825.7	2266.9	1688.8	786.1
85°	497.0	497.0	560.4	545.2	573.1	522.4	727.8	803.8	907.8	717.6	365.1
87.5°	197.8	218.1	367.7	329.6	256.1	205.4	268.8	284.0	314.4	281.5	152.1
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°	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5	6103.5
2.5°	6113.7	6121.3	6103.5	6090.8	6085.8	6078.2	6070.6	6073.1	6083.2	6093.4	6090.8
5°	6144.1	6146.6	6116.2	6101.0	6090.8	6080.7	6080.7	6088.3	6108.6	6123.8	6123.8
7.5°	6220.2	6220.2	6177.1	6149.2	6133.9	6116.2	6111.1	6113.7	6128.9	6149.2	6151.7
10°	6339.3	6329.2	6273.4	6230.3	6202.4	6159.3	6121.3	6101.0	6108.6	6121.3	6121.3
12.5°	6483.9	6456.0	6385.0	6326.7	6258.2	6177.1	6098.4	6057.9	6055.3	6068.0	6062.9
15°	6638.6	6608.1	6509.2	6402.7	6283.6	6164.4	6070.6	6012.2	5966.6	5953.9	5981.8
17.5°	6818.6	6755.2	6618.3	6471.2	6293.7	6139.0	5991.9	5872.8	5791.6	5768.8	5776.4
20°	7036.7	6953.0	6767.9	6537.1	6286.1	6047.7	5819.5	5659.8	5527.9	5487.3	5492.4
22.5°	7338.4	7193.9	6922.6	6570.1	6222.7	5875.3	5558.3	5350.4	5190.7	5127.3	5165.3
25°	7680.7	7523.5	7069.6	6562.5	6057.9	5598.9	5249.0	4977.7	4833.1	4739.3	4759.6
27.5°	8152.4	7873.5	7226.9	6494.0	5822.1	5261.7	4855.9	4599.8	4468.0	4419.8	4442.6
30°	8755.9	8327.4	7396.7	6308.9	5449.3	4835.7	4460.4	4293.0	4214.4	4153.5	4173.8
32.5°	9192.0	8646.9	7434.8	5997.0	5046.1	4447.7	4191.6	4067.3	3981.1	3922.8	3935.5
35°	9503.9	8918.2	7417.0	5614.1	4625.2	4128.2	3978.6	3877.1	3737.7	3610.9	3588.1
37.5°	9922.3	9258.0	7287.7	5195.7	4209.3	3912.6	3806.1	3618.5	3418.2	3248.3	3240.7
40°	10563.9	9656.1	7011.3	4703.8	3854.3	3752.9	3623.6	3380.1	3164.6	3027.7	3017.5
42.5°	11225.7	10023.8	6636.0	4186.5	3562.7	3585.5	3428.3	3187.4	3055.6	2966.8	2956.7
45°	12034.6	10421.9	6230.3	3737.7	3347.2	3428.3	3258.4	3119.0	3040.3	2982.0	2966.8
47.5°	12909.4	10830.1	5773.9	3334.5	3164.6	3283.8	3187.4	3124.0	3080.9	3040.3	3022.6
50°	13852.7	11286.6	5345.3	3009.9	2999.8	3134.2	3179.8	3157.0	3131.6	3119.0	3103.7
52.5°	14887.3	11753.1	4985.3	2781.7	2855.2	3027.7	3182.4	3200.1	3200.1	3192.5	3182.4
55°	15587.2	12077.7	4620.1	2596.6	2708.2	2941.5	3177.3	3245.7	3271.1	3261.0	3250.8
57.5°	16104.5	12255.2	4161.1	2436.8	2583.9	2857.8	3149.4	3250.8	3276.2	3288.9	3283.8
60°	16211.0	12090.4	3560.2	2269.5	2449.5	2736.1	3048.0	3174.7	3207.7	3286.3	3293.9
62.5°	15731.7	11583.2	2961.7	2104.7	2284.7	2551.0	2911.0	3088.5	3154.5	3276.2	3288.9
64°	15143.4	11015.2	2629.6	2000.7	2178.2	2447.0	2842.6	3065.7	3151.9	3314.2	3324.4
65°	14712.3	10601.9	2421.6	1934.8	2109.7	2378.5	2804.5	3073.3	3174.7	3372.5	3387.7
67.5°	13125.0	9179.4	2003.2	1780.1	1947.4	2261.9	2812.1	3136.7	3169.7	3395.4	3392.8
70°	10860.6	7308.0	1678.7	1638.1	1790.2	2168.1	2781.7	3035.3	3037.8	3187.4	3151.9
72.5°	8132.1	5401.1	1455.5	1491.0	1615.3	1944.9	2627.0	2898.3	2855.2	2875.5	2840.0
75°	5586.2	3572.9	1252.7	1333.8	1432.7	1719.2	2409.0	2632.1	2563.6	2538.3	2512.9
77.5°	2982.0	1975.3	1042.2	1179.1	1245.0	1485.9	2102.1	2317.7	2246.7	2147.8	2114.8
80°	1207.0	930.6	839.3	976.3	1014.3	1196.9	1749.7	1884.1	1830.8	1658.4	1602.6
82.5°	606.0	557.9	659.3	768.3	770.9	854.5	1300.8	1427.6	1308.4	1098.0	1049.8
85°	317.0	327.1	453.9	540.1	476.7	461.5	781.0	864.7	793.7	689.7	621.3
87.5°	114.1	131.9	238.4	235.8	167.4	88.8	172.4	83.7	45.6	27.9	35.5
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)