

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: P455633

Luminaire Tested: **GALN-SA6D-750-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455633
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-SA6D-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46751 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

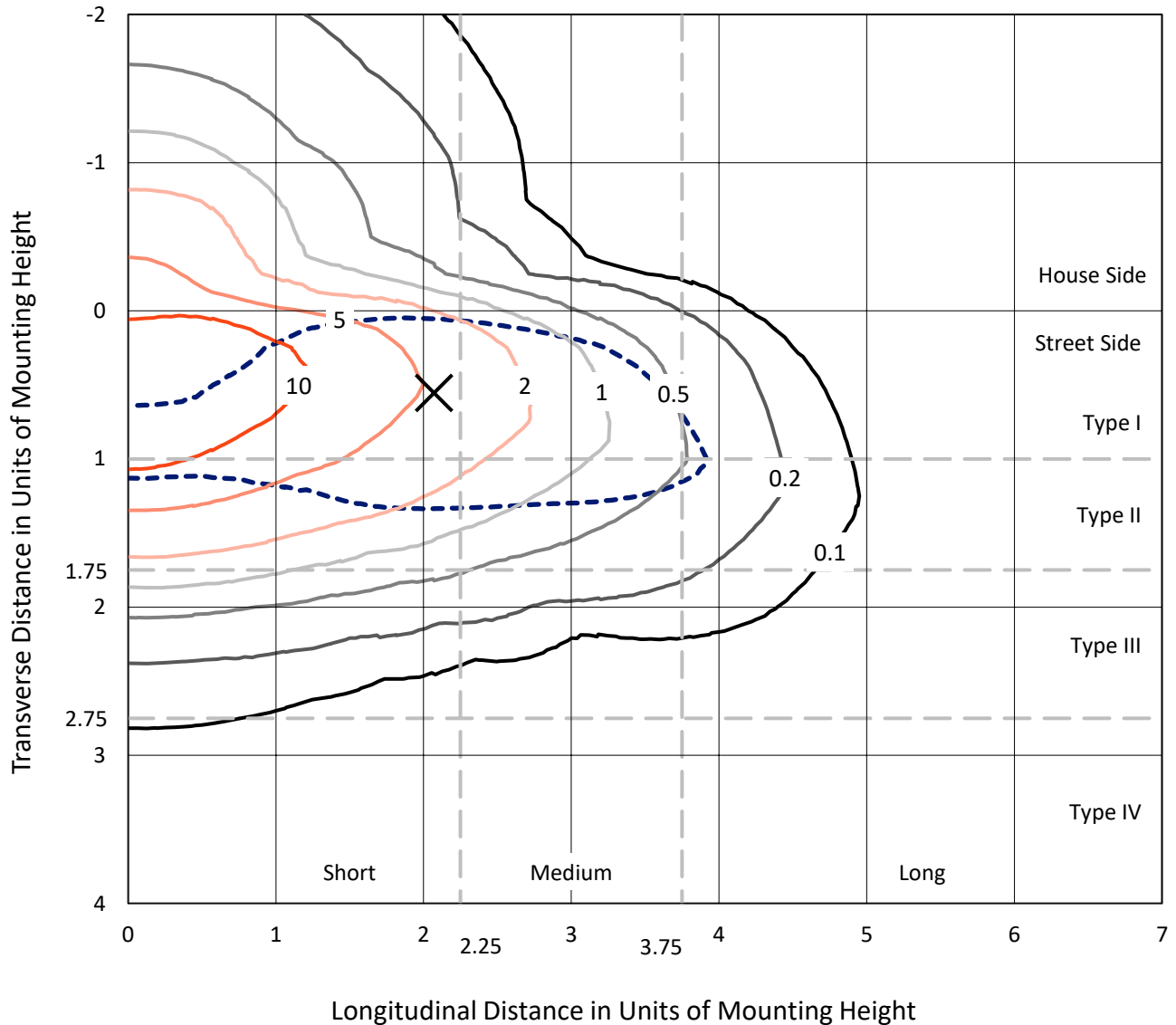
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

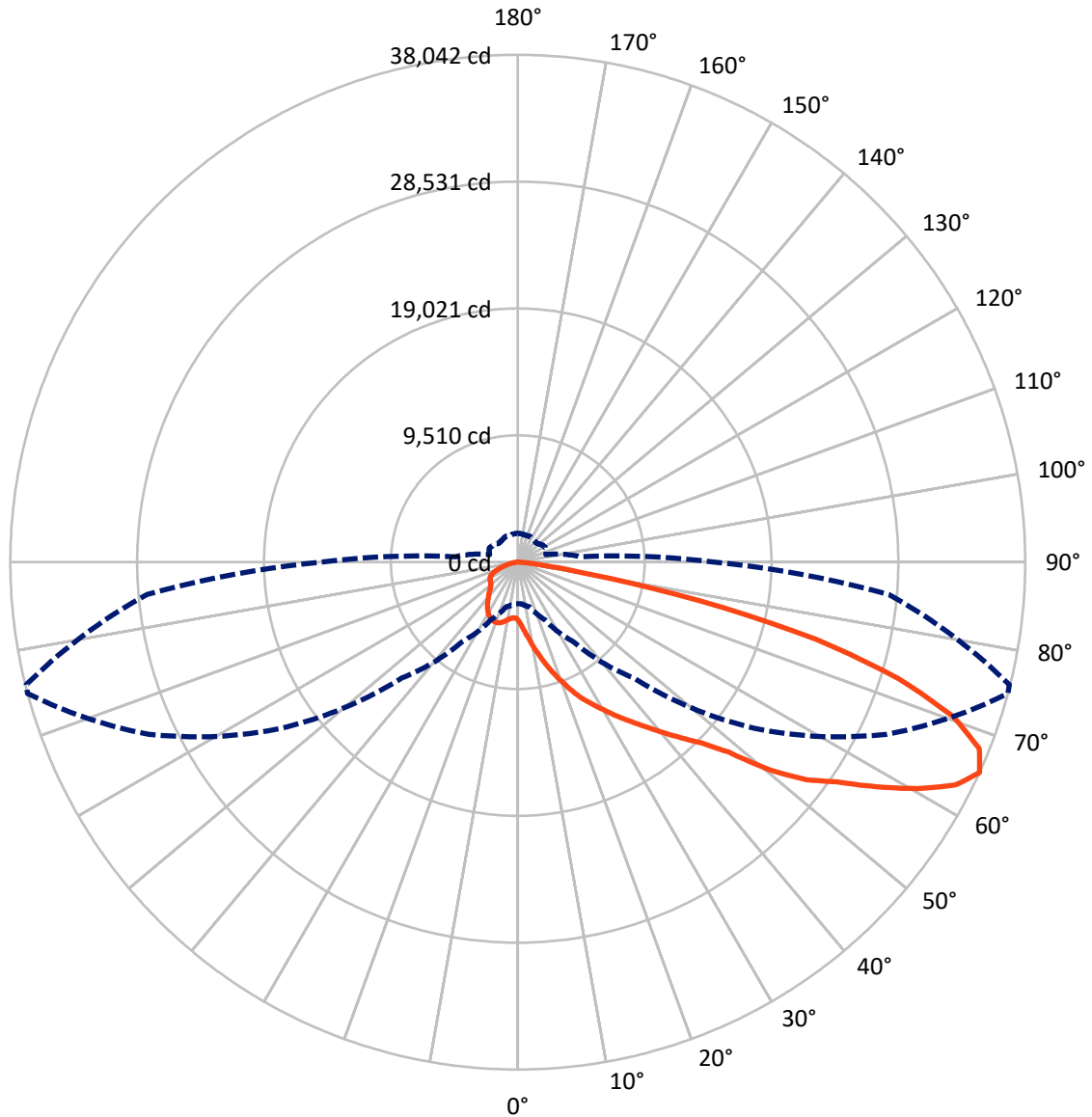
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	7859.5	0.0	7859.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	38891.5	0.0	38891.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	46751.0	0.0	46751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.8	1.1
10°-20°	2067.1	4.4
20°-30°	3993.0	8.5
30°-40°	6485.9	13.9
40°-50°	8921.9	19.1
50°-60°	10533.7	22.5
60°-70°	9229.3	19.7
70°-80°	4406.1	9.4
80°-90°	586.3	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°	46751.0	100.0
0°-180°	46751.0	100.0

Coefficient of Utilization



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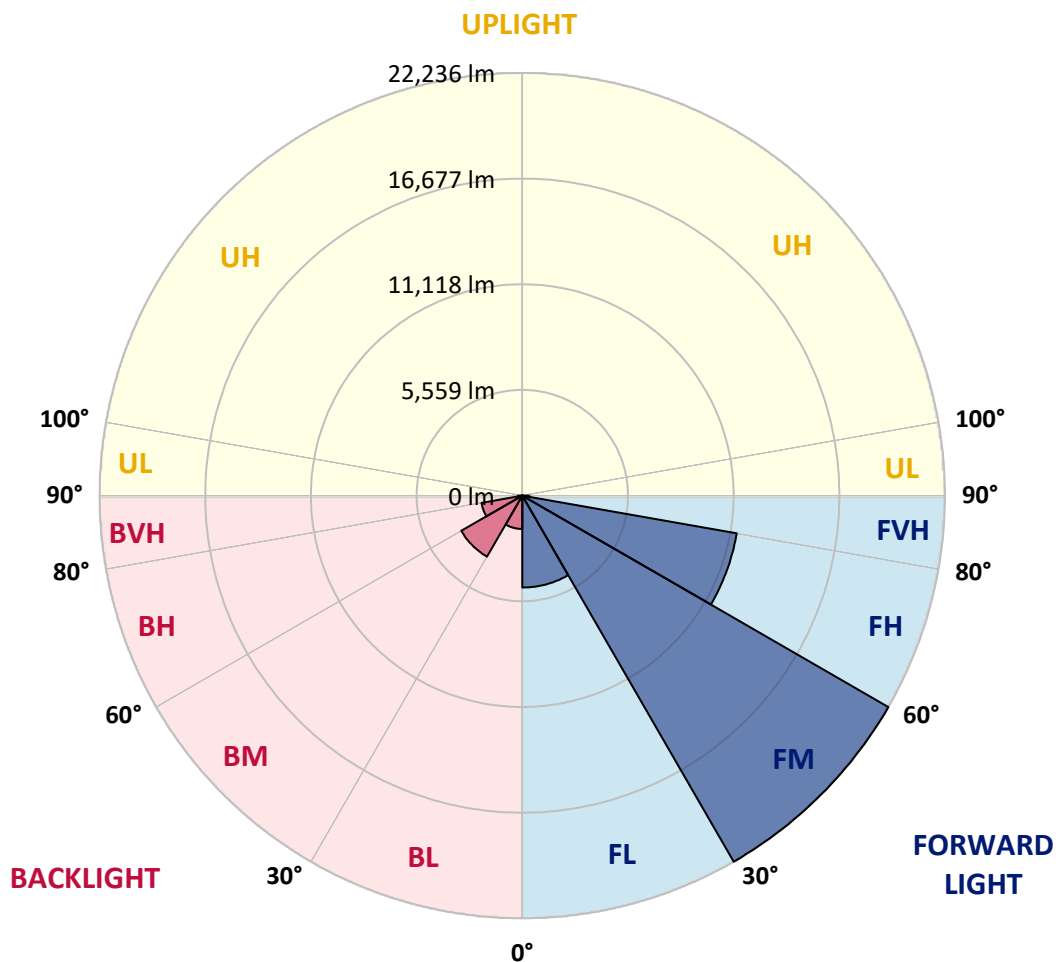
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4833.3	10.3			
FM	(30°-60°)	22235.8	47.6			
FH	(60°-80°)	11456.1	24.5			G4/12000
FVH	(80°-90°)	366.4	0.8			G3/500
BL	(0°-30°)	1754.6	3.8	B3/2500		
BM	(30°-60°)	3705.7	7.9	B3/5000		
BH	(60°-80°)	2179.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	219.9	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°	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8
2.5°	5771.4	5733.4	5692.8	5581.2	5462.0	5327.6	5134.9	4949.8	4703.8	4696.2	4513.7
5°	7371.5	7346.1	7166.1	7062.1	6785.7	6418.0	6106.1	5621.8	5173.0	5119.7	4764.7
7.5°	8842.2	8743.3	8674.8	8487.2	8213.3	7741.7	7138.2	6483.9	5733.4	5662.4	5074.1
10°	9950.3	9940.2	9904.7	9742.4	9537.0	9067.9	8398.4	7460.2	6443.4	6303.9	5449.4
12.5°	10779.5	10787.1	10782.1	10779.5	10632.4	10234.3	9509.1	8520.2	7161.0	7062.1	5883.0
15°	11324.7	11400.8	11431.2	11558.0	11570.7	11304.4	10680.6	9544.6	7969.9	7822.8	6349.5
17.5°	11684.8	11722.8	11864.8	12080.4	12255.3	12207.2	11651.8	10493.0	8796.6	8550.6	6833.9
20°	12029.6	12095.6	12204.6	12498.8	12808.1	12950.1	12559.6	11464.2	9615.6	9458.4	7368.9
22.5°	12747.3	12841.1	12879.1	13028.7	13292.5	13543.5	13366.0	12394.8	10513.3	10300.3	7936.9
25°	13961.9	14060.8	13954.3	13918.8	14005.0	14129.3	14091.2	13272.2	11360.2	11055.9	8474.5
27.5°	15544.2	15556.9	15349.0	15151.2	14938.2	14874.8	14758.1	14050.7	12095.6	11842.0	9014.6
30°	17243.2	17182.3	16837.5	16479.9	16119.8	15764.8	15430.1	14801.2	12914.6	12623.0	9544.6
32.5°	18820.4	18787.5	18404.6	17849.2	17240.6	16905.9	16228.9	15559.4	13792.0	13510.5	10089.8
35°	20002.1	20050.3	19629.3	19023.3	18358.9	18062.2	17207.7	16355.7	14699.8	14393.0	10683.2
37.5°	20841.4	20816.1	20443.3	19918.4	19335.2	19076.5	18351.3	17225.4	15676.1	15381.9	11332.3
40°	21140.6	21125.4	20849.0	20466.1	20095.9	20004.6	19548.2	18163.7	16794.3	16449.5	12113.3
42.5°	20950.5	20983.4	20800.8	20696.9	20628.4	20694.3	20737.5	19393.5	18014.0	17697.1	12960.3
45°	20367.2	20349.5	20324.1	20494.0	20879.5	21313.1	21914.0	20554.9	19340.2	19086.7	14096.3
47.5°	19325.0	19451.8	19515.2	19984.3	20826.2	21853.2	23268.1	22111.8	21264.9	21044.3	15828.2
50°	17867.0	17968.4	18343.7	19178.0	20433.2	22056.0	24591.8	24657.7	24475.2	24061.8	17709.8
52.5°	15589.9	15747.1	16520.5	18049.5	19626.8	21972.4	25393.1	26841.0	27081.9	26772.6	19563.4
55°	13041.4	13262.0	14078.5	16084.3	18516.1	21515.9	25945.9	28106.4	29067.4	28780.9	21348.6
57.5°	10546.2	10779.5	11618.9	13561.2	16578.8	20506.7	26308.5	29516.3	31770.5	31397.8	23569.9
60°	7904.0	8147.4	8867.6	10868.3	13819.9	18533.9	26062.6	30738.5	34471.1	34311.4	25793.8
62.5°	5099.4	5368.2	5994.5	7650.4	10622.3	15838.4	24746.5	31413.0	36809.1	36616.4	27416.6
65°	3106.3	3136.7	3481.6	4749.5	7270.0	12262.9	21736.5	30517.9	38041.5	37983.2	27911.1
67.5°	2008.3	2056.5	2213.7	2845.1	4359.0	8517.6	17380.1	27563.7	37321.3	37301.0	26889.2
70°	1696.4	1711.6	1782.6	1919.6	2533.2	5165.3	12204.6	22854.8	34585.2	34585.2	24432.1
72.5°	1516.4	1536.7	1562.0	1605.1	1808.0	2926.3	7282.7	17790.9	29861.1	30058.9	20795.8
75°	1376.9	1371.8	1387.1	1394.7	1541.7	1912.0	3765.6	13158.1	23100.8	22705.2	15059.9
77.5°	1179.1	1186.7	1179.1	1212.1	1361.7	1455.5	1912.0	8829.5	13999.9	13487.7	7559.1
80°	968.7	981.3	994.0	1014.3	1163.9	1105.6	1148.7	4024.3	5178.0	5069.0	2335.4
82.5°	727.8	745.5	765.8	814.0	915.4	730.3	725.2	1719.2	1868.9	1711.6	859.6
85°	294.1	347.4	524.9	573.1	575.6	400.7	446.3	717.6	763.3	745.5	337.3
87.5°	68.5	81.1	169.9	256.1	235.8	149.6	164.8	233.3	266.3	246.0	114.1
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°	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8	4343.8
2.5°	4430.0	4341.2	4189.1	4072.4	3988.8	3915.2	3869.6	3841.7	3831.5	3829.0	3831.5
5°	4579.6	4422.4	4181.5	4029.3	3945.6	3897.5	3869.6	3867.0	3869.6	3872.1	3864.5
7.5°	4785.0	4559.3	4244.9	4102.9	4039.5	4004.0	3991.3	3986.2	3988.8	3986.2	3986.2
10°	5058.8	4749.5	4369.1	4222.0	4168.8	4128.2	4107.9	4095.3	4085.1	4075.0	4069.9
12.5°	5360.6	4959.9	4503.5	4361.5	4285.4	4222.0	4176.4	4143.4	4120.6	4097.8	4092.7
15°	5697.9	5183.1	4653.1	4455.3	4346.3	4252.5	4173.9	4120.6	4080.0	4047.1	4044.5
17.5°	6019.9	5393.6	4754.6	4498.4	4338.7	4206.8	4102.9	4029.3	3978.6	3935.5	3930.4
20°	6364.8	5593.9	4800.2	4470.5	4262.6	4102.9	3965.9	3877.2	3818.9	3770.7	3763.1
22.5°	6712.2	5763.8	4795.1	4381.8	4130.8	3943.1	3798.6	3704.7	3636.3	3588.1	3570.4
25°	7044.3	5900.7	4731.7	4239.8	3948.2	3752.9	3605.9	3519.6	3458.8	3400.5	3400.5
27.5°	7343.6	5981.9	4612.5	4067.4	3760.5	3555.1	3438.5	3359.9	3304.1	3266.1	3243.2
30°	7637.7	6019.9	4450.3	3849.3	3562.7	3387.8	3294.0	3248.3	3197.6	3154.5	3149.4
32.5°	7901.4	6012.3	4247.4	3636.3	3375.1	3250.8	3212.8	3177.3	3124.1	3063.2	3048.0
35°	8157.5	5961.6	4006.5	3403.0	3217.9	3169.7	3179.8	3129.1	3032.8	2956.7	2944.0
37.5°	8436.5	5870.3	3742.8	3212.8	3086.0	3131.7	3157.0	3045.4	2888.2	2769.1	2741.2
40°	8758.5	5766.3	3468.9	3022.6	2982.1	3096.2	3096.2	2890.8	2675.2	2601.7	2581.4
42.5°	9136.3	5680.1	3240.7	2862.9	2895.8	3009.9	2997.3	2685.4	2596.6	2558.6	2548.4
45°	9734.8	5649.7	3004.9	2723.4	2824.8	2908.5	2804.6	2614.4	2563.7	2533.2	2523.1
47.5°	10680.6	5685.2	2796.9	2619.4	2743.7	2807.1	2589.0	2566.2	2530.7	2487.6	2482.5
50°	11558.0	5652.2	2649.9	2561.1	2672.7	2685.4	2500.3	2507.9	2487.6	2439.4	2429.3
52.5°	12275.6	5548.2	2556.0	2530.7	2611.8	2472.4	2416.6	2444.5	2436.9	2376.0	2365.9
55°	13064.2	5484.9	2510.4	2530.7	2571.3	2287.3	2338.0	2378.5	2368.4	2325.3	2322.8
57.5°	14020.2	5497.5	2477.4	2538.3	2530.7	2193.4	2259.4	2307.5	2305.0	2292.3	2292.3
60°	14999.0	5502.6	2426.7	2535.8	2482.5	2119.9	2178.2	2246.7	2251.8	2259.4	2259.4
62.5°	15323.6	5282.0	2327.8	2490.1	2376.0	2048.9	2102.1	2196.0	2190.9	2211.2	2213.7
65°	14717.6	4670.9	2180.8	2386.2	2239.1	1998.2	2043.8	2130.0	2102.1	2155.4	2165.5
67.5°	13396.4	3864.5	1952.5	2198.5	2086.9	1944.9	2005.8	2038.8	1988.0	2092.0	2094.5
70°	11578.3	3017.6	1663.5	1932.2	1914.5	1889.1	1975.4	1924.6	1853.6	1980.4	1955.1
72.5°	9681.5	2305.0	1328.7	1579.8	1683.7	1805.5	1922.1	1777.6	1678.7	1716.7	1671.1
75°	7272.6	1704.0	1067.6	1237.5	1402.3	1686.3	1873.9	1600.1	1447.9	1412.4	1402.3
77.5°	3707.3	1113.2	798.8	925.6	1052.3	1524.0	1808.0	1392.1	1199.4	1143.6	1118.3
80°	1323.7	692.3	562.9	639.0	710.0	1311.0	1579.8	1151.2	930.6	920.5	930.6
82.5°	613.7	446.3	377.8	418.4	420.9	874.8	1204.5	859.6	707.5	1075.2	907.8
85°	263.7	223.1	213.0	207.9	192.7	390.5	677.0	461.5	720.2	322.0	296.7
87.5°	78.6	88.8	78.6	58.3	43.1	43.1	68.5	25.4	17.8	12.7	12.7
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)