

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: P455575

Luminaire Tested: **GALN-SA6D-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455575
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-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 42577 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

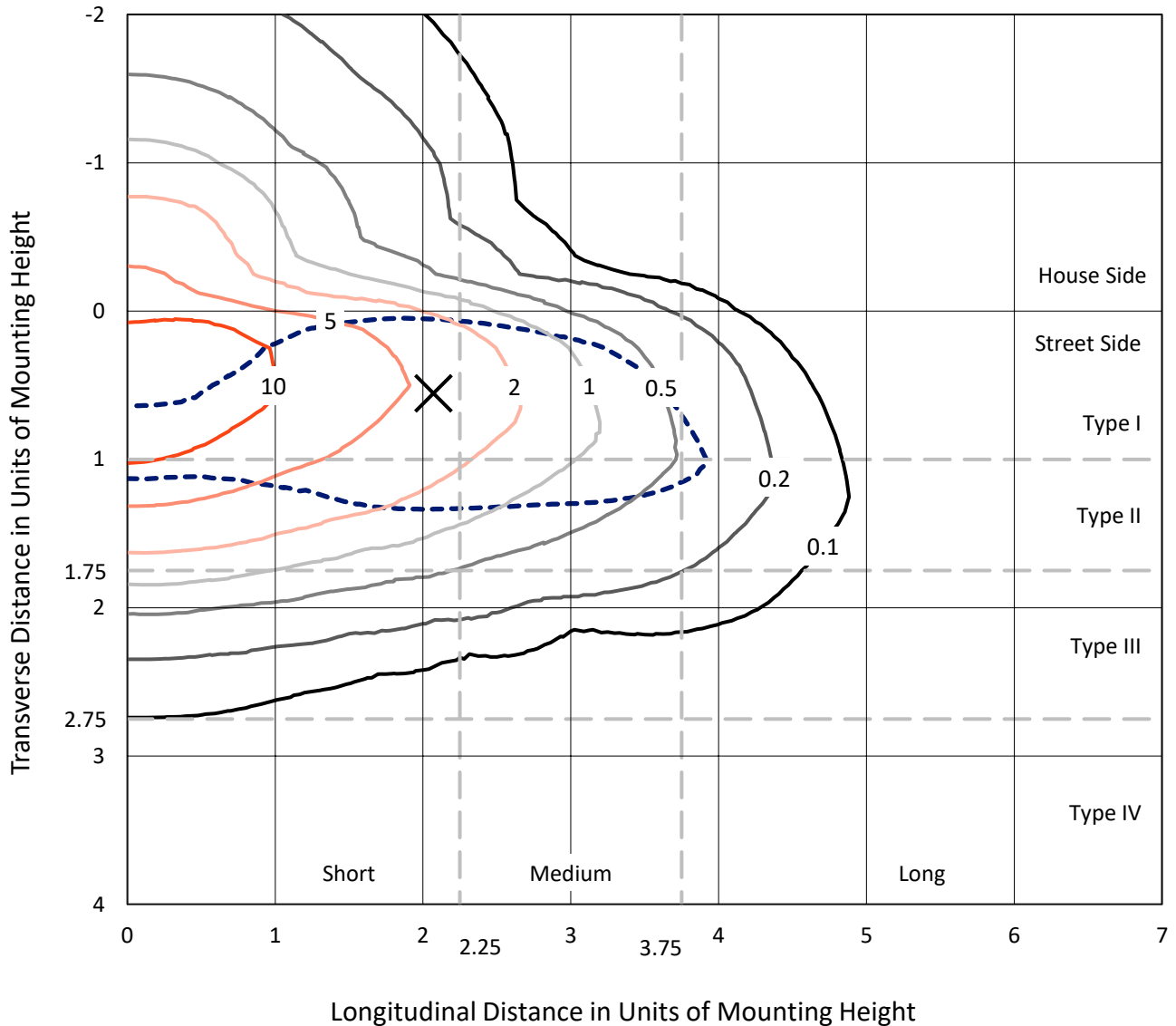
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

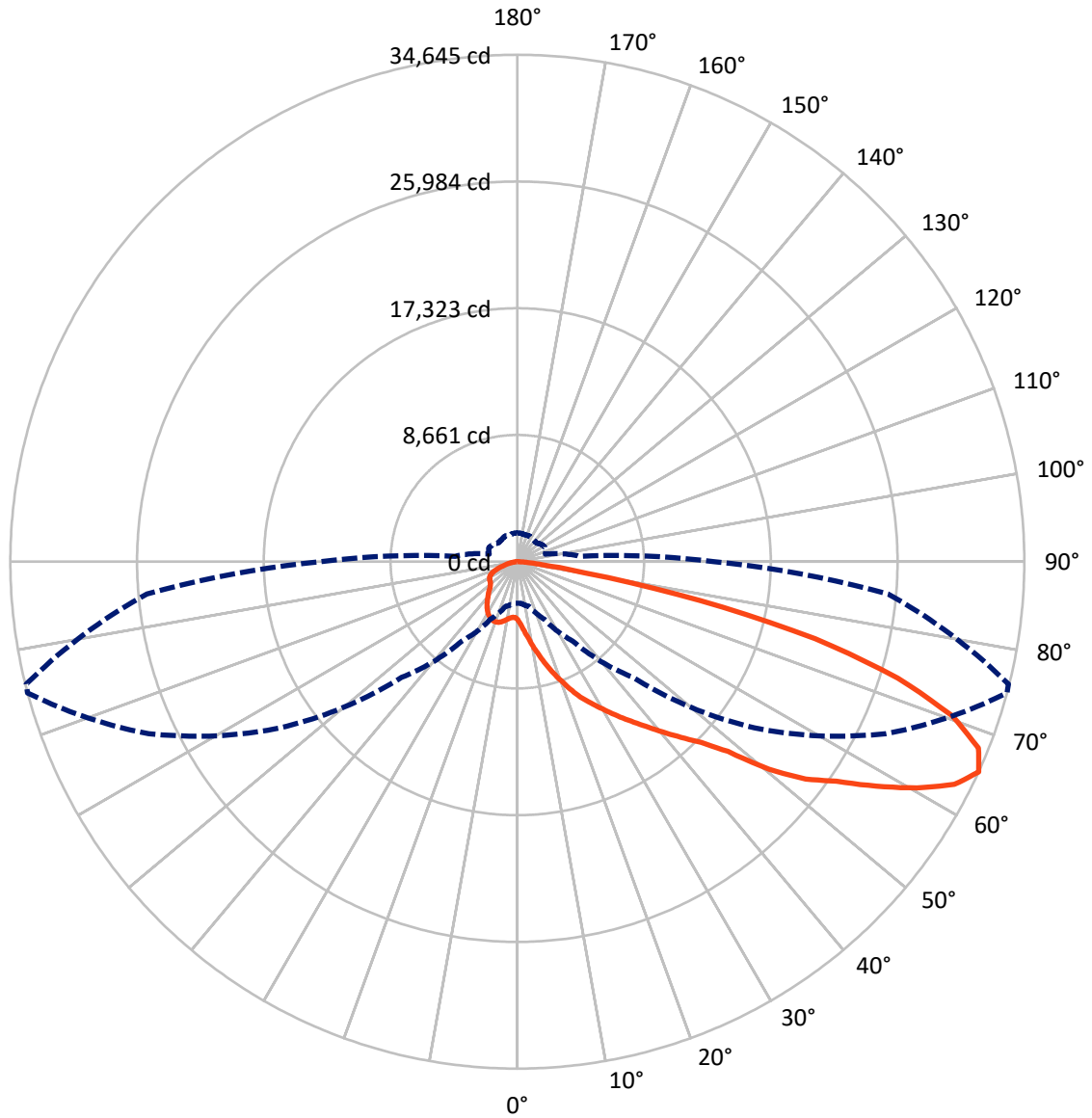
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	7157.7	0.0	7157.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	35419.3	0.0	35419.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	42577.0	0.0	42577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.6	1.1
10°-20°	1882.6	4.4
20°-30°	3636.5	8.5
30°-40°	5906.8	13.9
40°-50°	8125.3	19.1
50°-60°	9593.2	22.5
60°-70°	8405.3	19.7
70°-80°	4012.7	9.4
80°-90°	533.9	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°	42577.0	100.0
0°-180°	42577.0	100.0

Coefficient of Utilization



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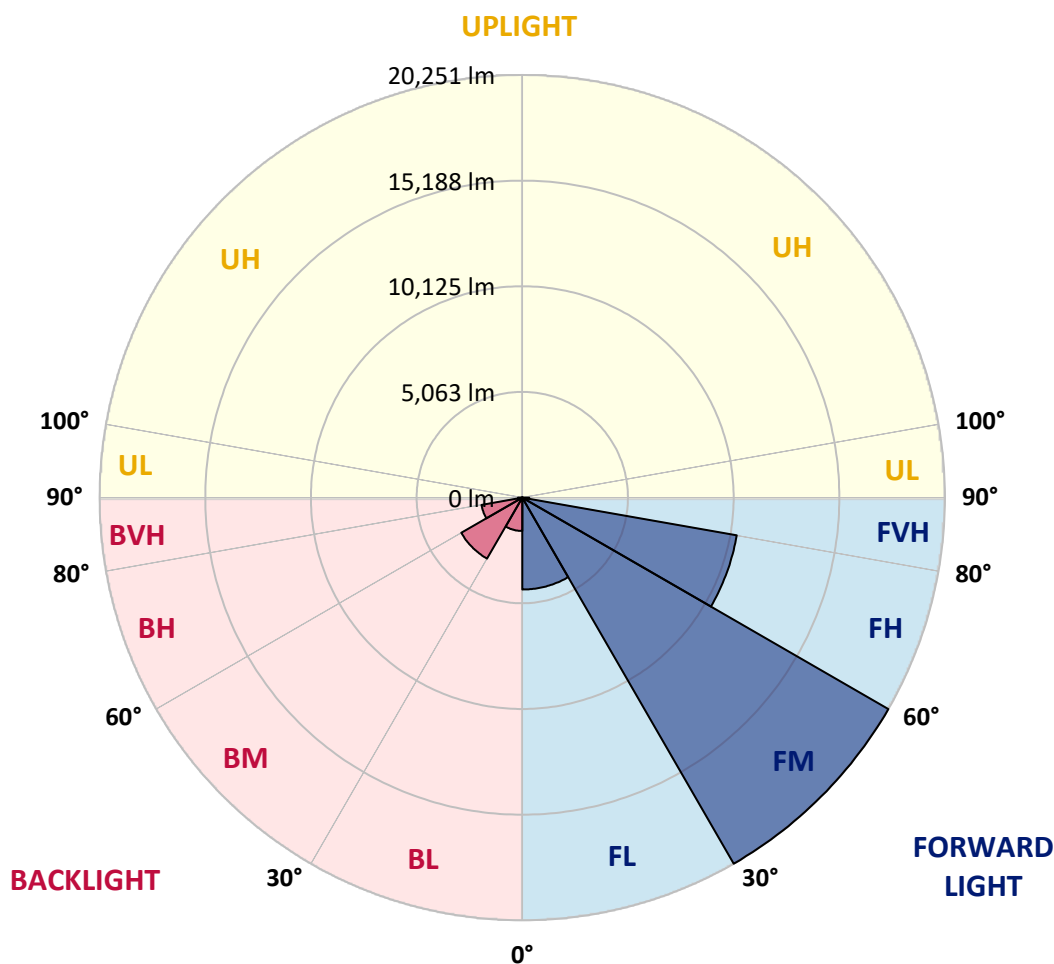
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4401.8	10.3			
FM	(30°-60°)	20250.5	47.6			
FH	(60°-80°)	10433.3	24.5			G4/12000
FVH	(80°-90°)	333.7	0.8			G3/500
BL	(0°-30°)	1597.9	3.8	B3/2500		
BM	(30°-60°)	3374.8	7.9	B3/5000		
BH	(60°-80°)	1984.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	200.3	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°	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9
2.5°	5256.1	5221.5	5184.5	5082.9	4974.4	4852.0	4676.5	4507.9	4283.9	4276.9	4110.7
5°	6713.3	6690.2	6526.3	6431.6	6179.9	5845.0	5560.9	5119.9	4711.1	4662.6	4339.3
7.5°	8052.8	7962.7	7900.3	7729.4	7480.0	7050.5	6500.9	5905.0	5221.5	5156.8	4621.0
10°	9061.9	9052.7	9020.4	8872.6	8685.5	8258.3	7648.6	6794.1	5868.1	5741.1	4962.8
12.5°	9817.1	9824.0	9819.4	9817.1	9683.2	9320.6	8660.1	7759.5	6521.6	6431.6	5357.7
15°	10313.6	10382.9	10410.6	10526.1	10537.6	10295.1	9727.0	8692.4	7258.3	7124.4	5782.6
17.5°	10641.6	10676.2	10805.5	11001.8	11161.2	11117.3	10611.5	9556.1	8011.2	7787.2	6223.7
20°	10955.6	11015.7	11115.0	11382.9	11664.6	11793.9	11438.3	10440.6	8757.1	8613.9	6711.0
22.5°	11609.2	11694.6	11729.3	11865.5	12105.7	12334.3	12172.7	11288.2	9574.6	9380.6	7228.3
25°	12715.4	12805.4	12708.4	12676.1	12754.6	12867.8	12833.1	12087.2	10346.0	10068.8	7717.9
27.5°	14156.4	14168.0	13978.6	13798.5	13604.5	13546.7	13440.5	12796.2	11015.7	10784.7	8209.8
30°	15703.7	15648.3	15334.2	15008.6	14680.6	14357.3	14052.5	13479.8	11761.6	11496.0	8692.4
32.5°	17140.1	17110.1	16761.4	16255.6	15701.4	15396.5	14779.9	14170.3	12560.6	12304.3	9189.0
35°	18216.3	18260.1	17876.8	17324.9	16719.8	16449.6	15671.3	14895.4	13387.4	13108.0	9729.4
37.5°	18980.7	18957.6	18618.1	18140.1	17608.9	17373.3	16712.9	15687.5	14276.5	14008.6	10320.5
40°	19253.2	19239.3	18987.6	18638.9	18301.7	18218.6	17802.9	16542.0	15294.9	14980.8	11031.8
42.5°	19080.0	19110.0	18943.7	18849.0	18786.7	18846.7	18886.0	17662.0	16405.7	16117.1	11803.2
45°	18548.8	18532.6	18509.6	18664.3	19015.3	19410.2	19957.5	18719.7	17613.5	17382.6	12837.8
47.5°	17599.7	17715.1	17772.9	18200.1	18966.8	19902.1	21190.7	20137.7	19366.3	19165.4	14415.1
50°	16271.8	16364.2	16705.9	17465.7	18608.9	20086.9	22396.2	22456.3	22290.0	21913.6	16128.6
52.5°	14198.0	14341.2	15045.5	16438.1	17874.5	20010.6	23126.0	24444.6	24664.0	24382.3	17816.7
55°	11877.1	12078.0	12821.6	14648.3	16863.0	19595.0	23629.4	25597.0	26472.2	26211.3	19442.5
57.5°	9604.6	9817.1	10581.5	12350.5	15098.6	18675.8	23959.7	26881.0	28934.0	28594.5	21465.5
60°	7198.3	7420.0	8075.8	9897.9	12586.0	16879.1	23735.6	27994.1	31393.5	31248.0	23490.9
62.5°	4644.1	4888.9	5459.3	6967.4	9673.9	14424.3	22537.1	28608.4	33522.7	33347.2	24968.8
65°	2829.0	2856.7	3170.8	4325.4	6620.9	11168.1	19795.9	27793.2	34645.1	34592.0	25419.2
67.5°	1829.0	1872.9	2016.1	2591.1	3969.8	7757.2	15828.4	25102.8	33989.2	33970.7	24488.5
70°	1545.0	1558.8	1623.5	1748.2	2307.1	4704.2	11115.0	20814.3	31497.4	31497.4	22250.7
72.5°	1381.0	1399.5	1422.6	1461.8	1646.6	2665.0	6632.5	16202.5	27195.1	27375.2	18939.1
75°	1254.0	1249.4	1263.2	1270.2	1404.1	1741.3	3429.4	11983.3	21038.3	20678.0	13715.3
77.5°	1073.9	1080.8	1073.9	1103.9	1240.1	1325.6	1741.3	8041.2	12750.0	12283.5	6884.2
80°	882.2	893.7	905.3	923.7	1060.0	1006.9	1046.1	3665.0	4715.7	4616.4	2126.9
82.5°	662.8	679.0	697.4	741.3	833.7	665.1	660.5	1565.7	1702.0	1558.8	782.9
85°	267.9	316.4	478.0	521.9	524.2	364.9	406.4	653.6	695.1	679.0	307.1
87.5°	62.4	73.9	154.7	233.2	214.8	136.3	150.1	212.5	242.5	224.0	103.9
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°	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9	3955.9
2.5°	4034.5	3953.6	3815.1	3708.8	3632.6	3565.7	3524.1	3498.7	3489.4	3487.1	3489.4
5°	4170.7	4027.5	3808.1	3669.6	3593.4	3549.5	3524.1	3521.8	3524.1	3526.4	3519.5
7.5°	4357.8	4152.2	3865.9	3736.6	3678.8	3646.5	3634.9	3630.3	3632.6	3630.3	3630.3
10°	4607.2	4325.4	3979.0	3845.1	3796.6	3759.6	3741.2	3729.6	3720.4	3711.1	3706.5
12.5°	4882.0	4517.1	4101.4	3972.1	3902.8	3845.1	3803.5	3773.5	3752.7	3731.9	3727.3
15°	5189.1	4720.3	4237.7	4057.6	3958.3	3872.8	3801.2	3752.7	3715.8	3685.7	3683.4
17.5°	5482.4	4912.0	4330.1	4096.8	3951.3	3831.2	3736.6	3669.6	3623.4	3584.1	3579.5
20°	5796.5	5094.5	4371.6	4071.4	3882.0	3736.6	3611.8	3531.0	3477.9	3434.0	3427.1
22.5°	6112.9	5249.2	4367.0	3990.6	3762.0	3591.1	3459.4	3374.0	3311.6	3267.8	3251.6
25°	6415.4	5373.9	4309.3	3861.3	3595.7	3417.9	3283.9	3205.4	3150.0	3096.9	3096.9
27.5°	6687.9	5447.8	4200.7	3704.2	3424.8	3237.7	3131.5	3059.9	3009.1	2974.5	2953.7
30°	6955.8	5482.4	4052.9	3505.6	3244.7	3085.3	2999.9	2958.3	2912.1	2872.8	2868.2
32.5°	7196.0	5475.5	3868.2	3311.6	3073.8	2960.6	2926.0	2893.6	2845.1	2789.7	2775.9
35°	7429.2	5429.3	3648.8	3099.2	2930.6	2886.7	2895.9	2849.8	2762.0	2692.7	2681.2
37.5°	7683.3	5346.2	3408.6	2926.0	2810.5	2852.1	2875.2	2773.5	2630.4	2521.8	2496.4
40°	7976.5	5251.5	3159.2	2752.8	2715.8	2819.7	2819.7	2632.7	2436.4	2369.4	2350.9
42.5°	8320.6	5173.0	2951.4	2607.3	2637.3	2741.2	2729.7	2445.6	2364.8	2330.1	2320.9
45°	8865.6	5145.3	2736.6	2480.3	2572.6	2648.8	2554.2	2381.0	2334.8	2307.1	2297.8
47.5°	9727.0	5177.6	2547.2	2385.6	2498.7	2556.5	2357.9	2337.1	2304.7	2265.5	2260.9
50°	10526.1	5147.6	2413.3	2332.5	2434.1	2445.6	2277.0	2284.0	2265.5	2221.6	2212.4
52.5°	11179.6	5052.9	2327.8	2304.7	2378.6	2251.6	2200.8	2226.2	2219.3	2163.9	2154.6
55°	11897.8	4995.2	2286.3	2304.7	2341.7	2083.0	2129.2	2166.2	2156.9	2117.7	2115.4
57.5°	12768.5	5006.7	2256.2	2311.7	2304.7	1997.6	2057.6	2101.5	2099.2	2087.7	2087.7
60°	13659.9	5011.3	2210.1	2309.4	2260.9	1930.6	1983.7	2046.1	2050.7	2057.6	2057.6
62.5°	13955.5	4810.4	2120.0	2267.8	2163.9	1866.0	1914.5	1999.9	1995.3	2013.8	2016.1
65°	13403.6	4253.8	1986.1	2173.1	2039.2	1819.8	1861.3	1939.9	1914.5	1963.0	1972.2
67.5°	12200.4	3519.5	1778.2	2002.2	1900.6	1771.3	1826.7	1856.7	1810.5	1905.2	1907.5
70°	10544.6	2748.1	1514.9	1759.7	1743.6	1720.5	1799.0	1752.8	1688.1	1803.6	1780.5
72.5°	8817.2	2099.2	1210.1	1438.7	1533.4	1644.3	1750.5	1618.9	1528.8	1563.4	1521.9
75°	6623.3	1551.9	972.2	1127.0	1277.1	1535.7	1706.6	1457.2	1318.6	1286.3	1277.1
77.5°	3376.3	1013.8	727.4	842.9	958.4	1387.9	1646.6	1267.8	1092.3	1041.5	1018.4
80°	1205.5	630.5	512.7	582.0	646.6	1193.9	1438.7	1048.5	847.5	838.3	847.5
82.5°	558.9	406.4	344.1	381.0	383.4	796.7	1096.9	782.9	644.3	979.2	826.8
85°	240.2	203.2	194.0	189.4	175.5	355.6	616.6	420.3	655.9	293.3	270.2
87.5°	71.6	80.8	71.6	53.1	39.3	39.3	62.4	23.1	16.2	11.5	11.5
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)