

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: P532328

Luminaire Tested: **GALN-SA7C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33968 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): 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

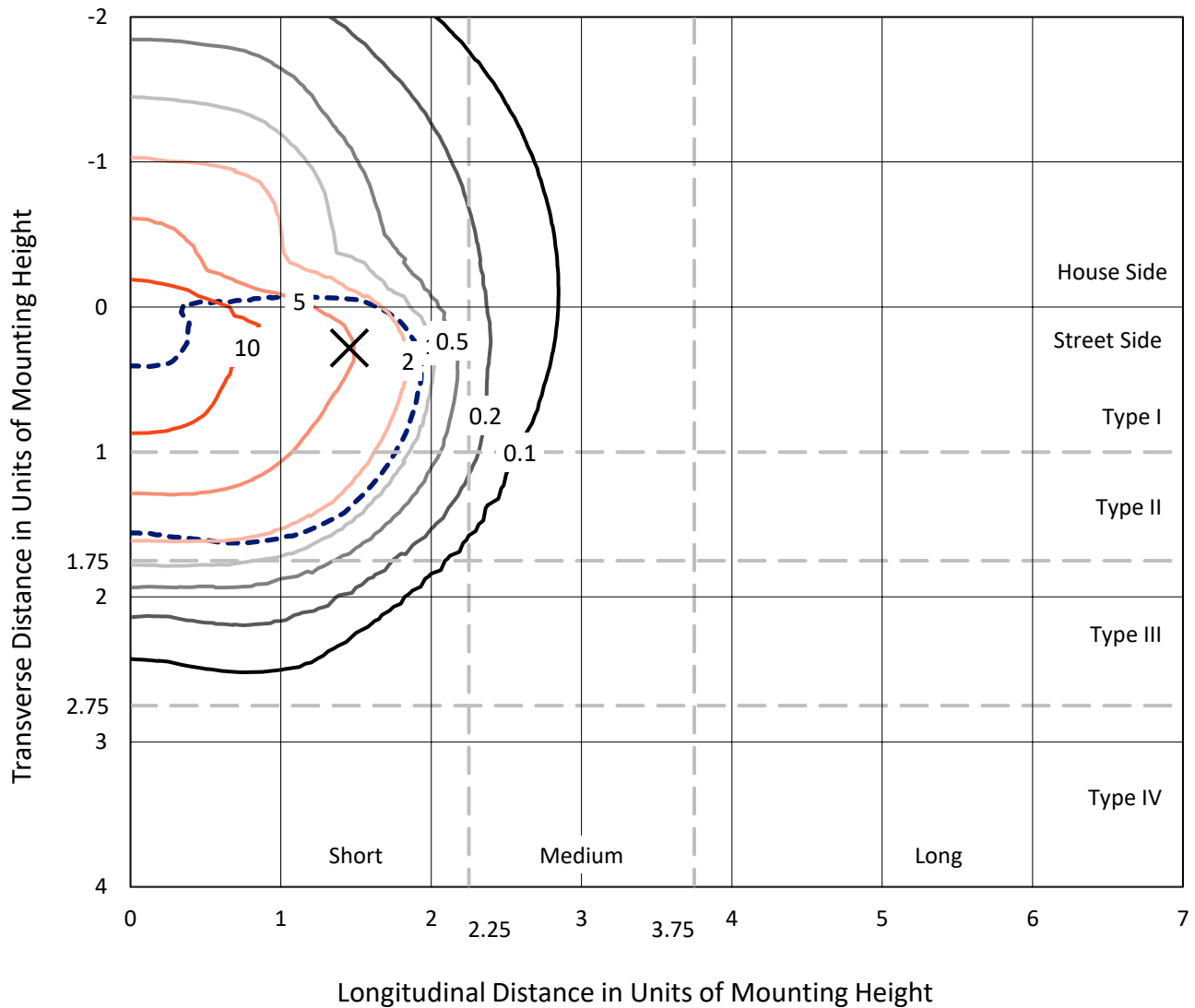


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Iso-Footcandle Lines of Horizontal Illumination

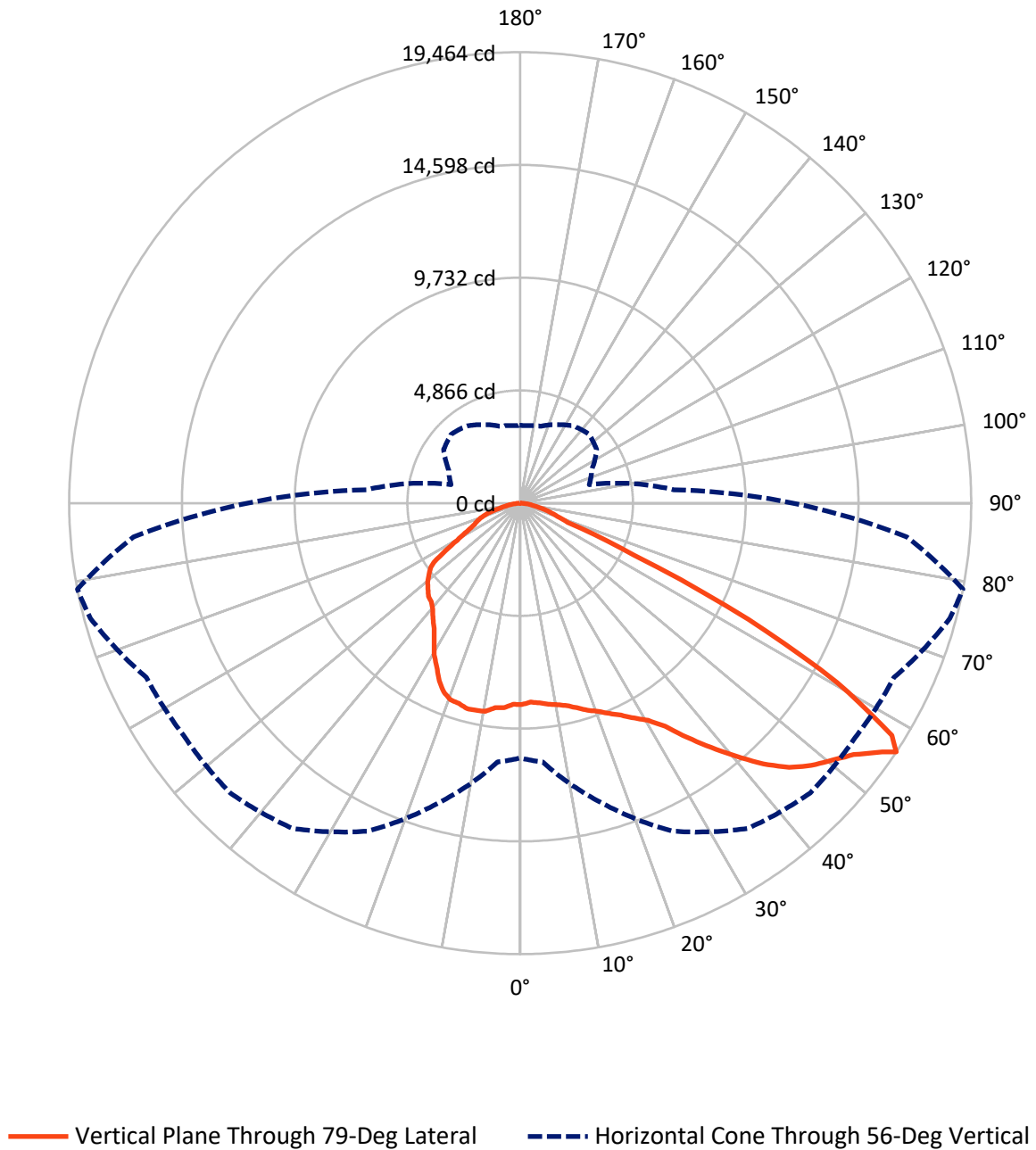
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10031.5	0.0	10031.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23936.5	0.0	23936.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	33968.0	0.0	33968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.2	2.3
10°-20°	2162.5	6.4
20°-30°	3699.6	10.9
30°-40°	5670.2	16.7
40°-50°	7663.2	22.6
50°-60°	8801.4	25.9
60°-70°	4012.0	11.8
70°-80°	989.1	2.9
80°-90°	179.8	0.5
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°	33968.0	100.0
0°-180°	33968.0	100.0

Coefficient of Utilization



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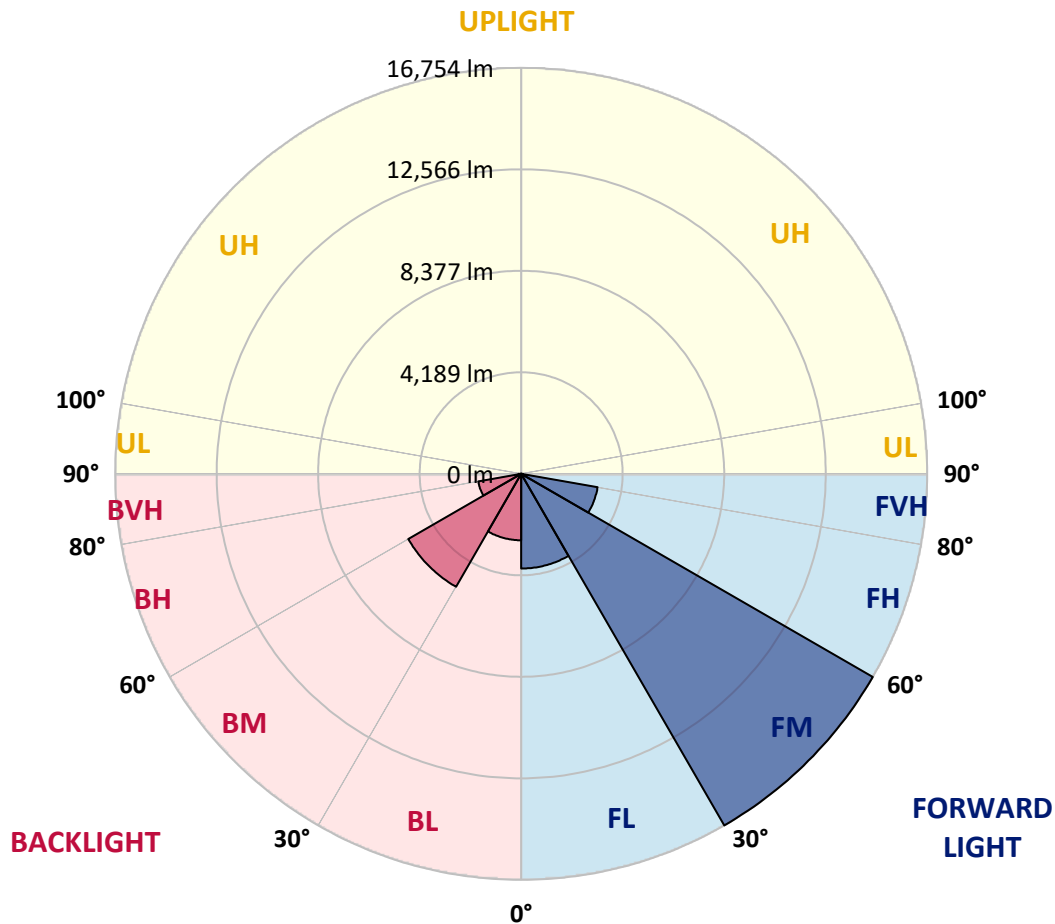
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3908.3	11.5			
FM	(30°-60°)	16754.0	49.3			
FH	(60°-80°)	3202.4	9.4			G2/5000
FVH	(80°-90°)	71.8	0.2			G1/100
BL	(0°-30°)	2744.0	8.1	B4/5000		
BM	(30°-60°)	5380.8	15.8	B4/8500		
BH	(60°-80°)	1798.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	108.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1
2.5°	8267.9	8246.8	8297.6	8335.6	8382.2	8441.4	8471.0	8488.0	8636.1	8598.0	8712.2
5°	8090.2	8035.2	8073.3	8102.9	8183.3	8255.2	8335.6	8462.6	8598.0	8657.2	8796.8
7.5°	7933.7	7904.0	7895.6	7916.7	8026.8	8119.8	8259.5	8445.7	8665.7	8763.0	8843.4
10°	7675.6	7633.2	7696.7	7836.3	7866.0	8060.6	8221.4	8488.0	8678.4	8847.6	9084.6
12.5°	7561.3	7519.0	7531.7	7612.1	7819.4	8005.6	8196.0	8496.4	8898.4	8966.1	9283.4
15°	7743.3	7700.9	7713.6	7692.5	7891.4	7988.7	8289.1	8665.7	9050.7	9165.0	9503.5
17.5°	8157.9	8162.2	8107.1	8060.6	8014.1	8221.4	8428.7	8767.2	9110.0	9397.7	9651.6
20°	8949.2	8809.5	8699.5	8437.2	8365.3	8454.1	8716.5	9042.3	9351.1	9588.1	9875.8
22.5°	9558.5	9571.2	9414.6	8983.0	8826.5	8864.5	9088.8	9355.4	9693.9	9863.1	10193.2
25°	10442.8	10354.0	10184.7	9842.0	9490.8	9520.4	9685.4	9926.6	10019.7	10138.2	10497.8
27.5°	11251.0	11276.4	10942.1	10620.5	10184.7	10100.1	10396.3	10438.6	10282.0	10506.3	10629.0
30°	12071.9	12050.7	11830.7	11454.1	11026.7	11043.7	11174.8	10967.5	10751.7	10874.4	10959.0
32.5°	12922.4	12681.2	12672.7	12334.2	12008.4	11851.8	11691.0	11792.6	11458.3	11483.7	11403.3
35°	13603.6	13637.4	13442.8	13201.6	13040.8	12765.8	12325.7	12507.7	12444.2	12414.6	12067.6
37.5°	14098.7	13967.5	14064.8	13984.4	13832.1	13489.3	13032.4	13205.9	13235.5	13379.3	12977.4
40°	14504.9	14449.8	14708.0	14750.3	14644.5	13904.0	13083.1	13599.4	14043.6	14356.8	13878.6
42.5°	14699.5	14818.0	15088.8	15414.6	15177.6	14386.4	13345.5	13899.8	14889.9	15385.0	14733.3
45°	14961.8	14809.5	15211.5	15808.1	15812.3	14792.6	13599.4	14306.0	15550.0	16269.3	15317.3
47.5°	14695.3	14771.4	15186.1	15943.5	16138.1	15219.9	14284.8	14881.4	16277.8	16916.7	15858.9
50°	14098.7	14251.0	15008.4	15795.4	16383.5	15672.7	15071.8	15503.4	16950.5	17437.1	15947.7
52.5°	13476.7	13561.3	14746.0	15909.6	16493.6	16256.6	16125.4	16362.4	17771.4	18025.3	16057.7
55°	11784.1	12186.1	13878.6	15858.9	17030.9	17310.2	17208.6	17555.6	18702.3	18956.2	16658.6
56°	11001.3	11212.9	13358.2	15621.9	17136.7	17695.2	17644.5	17801.0	19197.4	19463.9	16751.7
57.5°	9554.2	9571.2	11390.6	14572.6	16739.0	17809.5	17758.7	17881.4	19100.0	18918.1	15935.0
60°	5978.8	6241.2	7751.7	11208.7	14234.1	16523.2	16810.9	15825.0	16104.3	15719.2	12397.7
62.5°	3097.3	3059.2	4062.0	6554.3	9448.5	11830.7	12097.3	12050.7	11619.1	11056.4	8098.7
65°	1544.4	1552.9	2124.1	3245.4	4840.6	6194.6	6939.3	7019.7	5873.0	5403.4	3842.0
67.5°	1121.3	1163.6	1527.5	1984.5	2280.7	2551.5	3126.9	3067.7	2323.0	2208.7	2047.9
70°	871.6	909.7	1239.8	1514.8	1375.2	1375.2	1497.9	1548.7	1654.4	1701.0	1756.0
72.5°	634.7	664.3	947.8	1045.1	901.3	969.0	1121.3	1239.8	1349.8	1366.7	1430.2
75°	435.8	461.2	622.0	575.5	541.6	668.5	820.9	930.9	1011.3	1053.6	1091.7
77.5°	283.5	292.0	355.4	300.4	347.0	431.6	533.1	626.2	706.6	740.5	748.9
80°	126.9	139.6	152.3	190.4	241.2	308.9	380.8	457.0	507.8	520.4	545.8
82.5°	71.9	71.9	93.1	135.4	177.7	224.3	275.0	330.0	389.3	402.0	397.7
85°	38.1	38.1	55.0	80.4	110.0	131.2	126.9	131.2	139.6	160.8	156.6
87.5°	12.7	12.7	16.9	16.9	21.2	25.4	21.2	29.6	38.1	38.1	38.1
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°	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1	8691.1
2.5°	8678.4	8716.5	8665.7	8775.7	8775.7	8754.5	8648.8	8682.6	8708.0	8708.0	8729.1
5°	8843.4	8830.7	8864.5	8733.4	8653.0	8623.4	8449.9	8365.3	8293.3	8289.1	8225.6
7.5°	8936.5	8902.6	8889.9	8792.6	8437.2	8221.4	7849.0	7633.2	7586.7	7421.7	7485.1
10°	9084.6	9148.0	9084.6	8555.7	8060.6	7565.5	7201.7	6867.4	6736.2	6630.4	6567.0
12.5°	9389.2	9359.6	8991.5	8276.4	7582.5	6994.3	6452.7	6101.5	5970.3	5877.3	5868.8
15°	9647.3	9499.2	8936.5	7836.3	6837.8	6211.5	5767.2	5517.6	5458.4	5466.8	5504.9
17.5°	9736.2	9634.6	8648.8	7379.4	6283.5	5547.2	5339.9	5301.8	5356.8	5420.3	5437.2
20°	9875.8	9715.0	8530.3	6757.4	5598.0	5132.6	5119.9	5255.3	5356.8	5449.9	5462.6
22.5°	10167.8	9761.6	8145.2	6169.2	5128.3	5009.8	5132.6	5246.8	5403.4	5479.5	5411.8
25°	10252.4	9660.0	7603.6	5462.6	4832.1	4933.7	5064.9	5221.4	5331.4	5373.7	5403.4
27.5°	10324.3	9503.5	6871.6	4992.9	4739.0	4929.5	5064.9	5196.0	5255.3	5293.3	5327.2
30°	10527.4	9456.9	6236.9	4679.8	4679.8	4844.8	5018.3	5052.2	5132.6	5179.1	5238.3
32.5°	10629.0	9135.4	5585.3	4480.9	4620.6	4887.1	4899.8	4963.3	4967.5	5005.6	4942.1
35°	10895.6	8906.9	4980.2	4337.1	4646.0	4844.8	4908.3	4870.2	4662.9	4561.3	4582.5
37.5°	11090.2	8792.6	4544.4	4320.1	4650.2	4891.4	4925.2	4637.5	4421.7	4252.4	4294.8
40°	11614.9	8509.1	4214.4	4290.5	4688.3	4942.1	4849.1	4535.9	4146.7	3973.2	3943.6
42.5°	12016.9	8306.0	4007.0	4256.7	4717.9	5014.1	4811.0	4332.8	3935.1	3774.3	3816.6
45°	12482.3	8259.5	3897.0	4265.1	4768.7	5052.2	4764.4	4176.3	3753.2	3689.7	3677.0
47.5°	12647.3	7925.2	3778.5	4193.2	4756.0	5039.5	4607.9	4057.8	3685.5	3693.9	3727.8
50°	12372.3	7582.5	3689.7	4045.1	4671.3	4925.2	4362.5	3901.2	3647.4	3753.2	3812.4
52.5°	12021.1	7231.3	3507.7	3846.2	4497.9	4747.5	4248.2	3892.8	3609.3	3575.4	3588.1
55°	12126.9	6943.5	3253.9	3575.4	4218.6	4417.5	4121.3	3812.4	3516.2	3389.3	3431.6
56°	11784.1	6647.4	3088.8	3406.2	4028.2	4205.9	4057.8	3740.5	3440.0	3355.4	3355.4
57.5°	10815.2	5653.0	2873.0	3135.4	3626.2	3837.8	3935.1	3698.1	3355.4	3207.3	3211.5
60°	7976.0	4019.7	2576.9	2763.0	3004.2	3173.5	3626.2	3579.7	3143.8	3042.3	3004.2
62.5°	4916.8	2936.5	2365.3	2437.2	2559.9	2699.6	3165.0	3241.2	2919.6	2809.6	2784.2
65°	2754.6	2246.8	2204.5	2234.1	2293.4	2365.3	2627.6	2796.9	2576.9	2407.6	2399.1
67.5°	2014.1	2009.9	2043.7	2069.1	2094.5	2094.5	2158.0	2225.7	2196.0	2060.6	2047.9
70°	1789.8	1802.5	1827.9	1832.1	1840.6	1811.0	1760.2	1739.1	1772.9	1688.3	1671.4
72.5°	1476.7	1519.0	1548.7	1552.9	1506.3	1468.3	1400.6	1328.6	1303.2	1286.3	1282.1
75°	1134.0	1163.6	1176.3	1172.1	1155.1	1100.1	1019.7	947.8	901.3	850.5	875.9
77.5°	765.9	808.2	829.3	829.3	803.9	719.3	681.2	626.2	579.7	524.7	533.1
80°	537.4	567.0	600.8	596.6	554.3	512.0	457.0	406.2	368.1	325.8	321.6
82.5°	402.0	418.9	435.8	427.4	397.7	355.4	317.3	270.8	228.5	198.9	198.9
85°	143.9	156.6	190.4	198.9	215.8	215.8	181.9	152.3	122.7	101.6	101.6
87.5°	42.3	42.3	46.5	46.5	42.3	46.5	38.1	42.3	46.5	29.6	29.6
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)