

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: P456737

Luminaire Tested: **GALN-SA8A-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456737
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-SA8A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33350 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

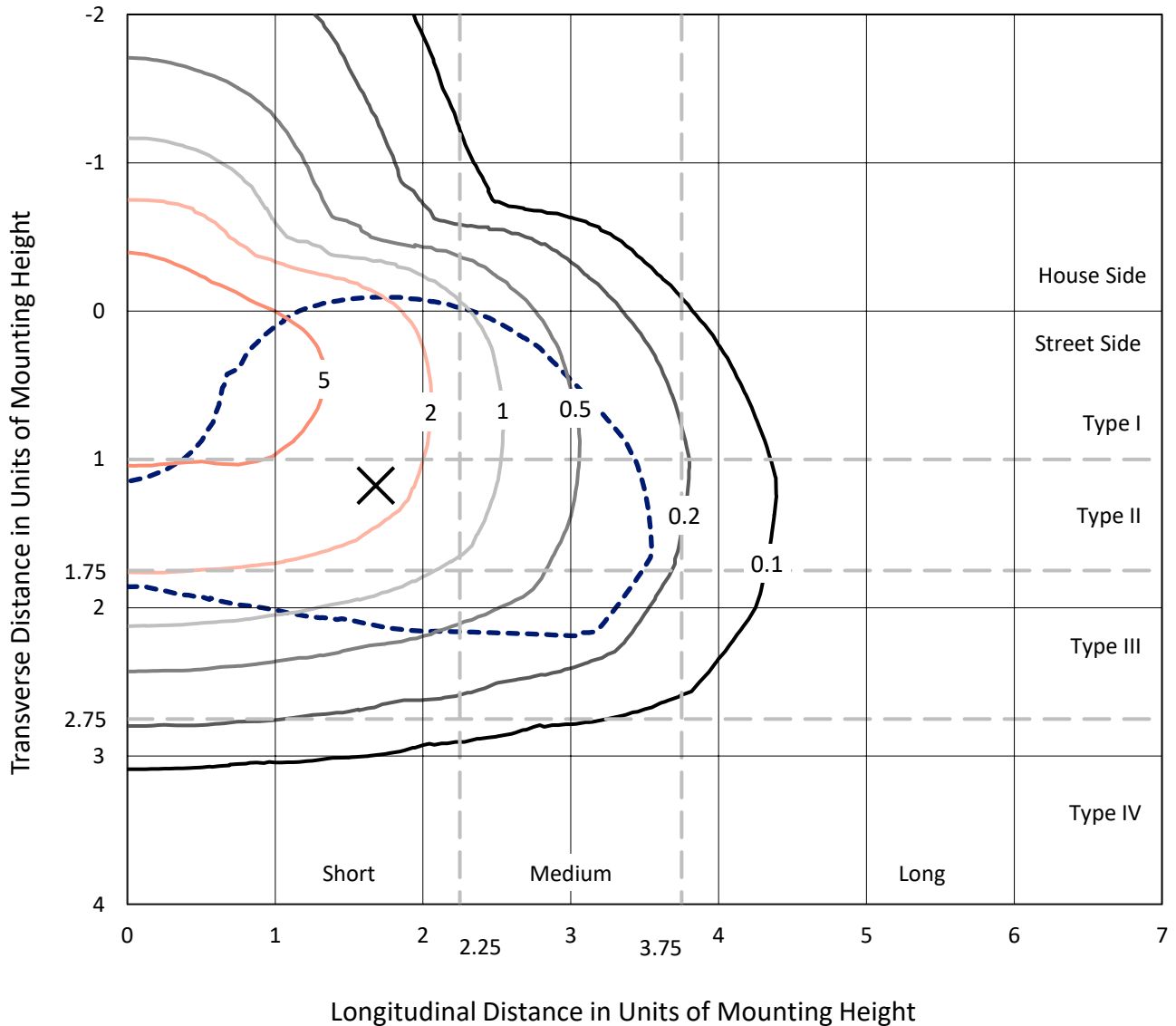
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

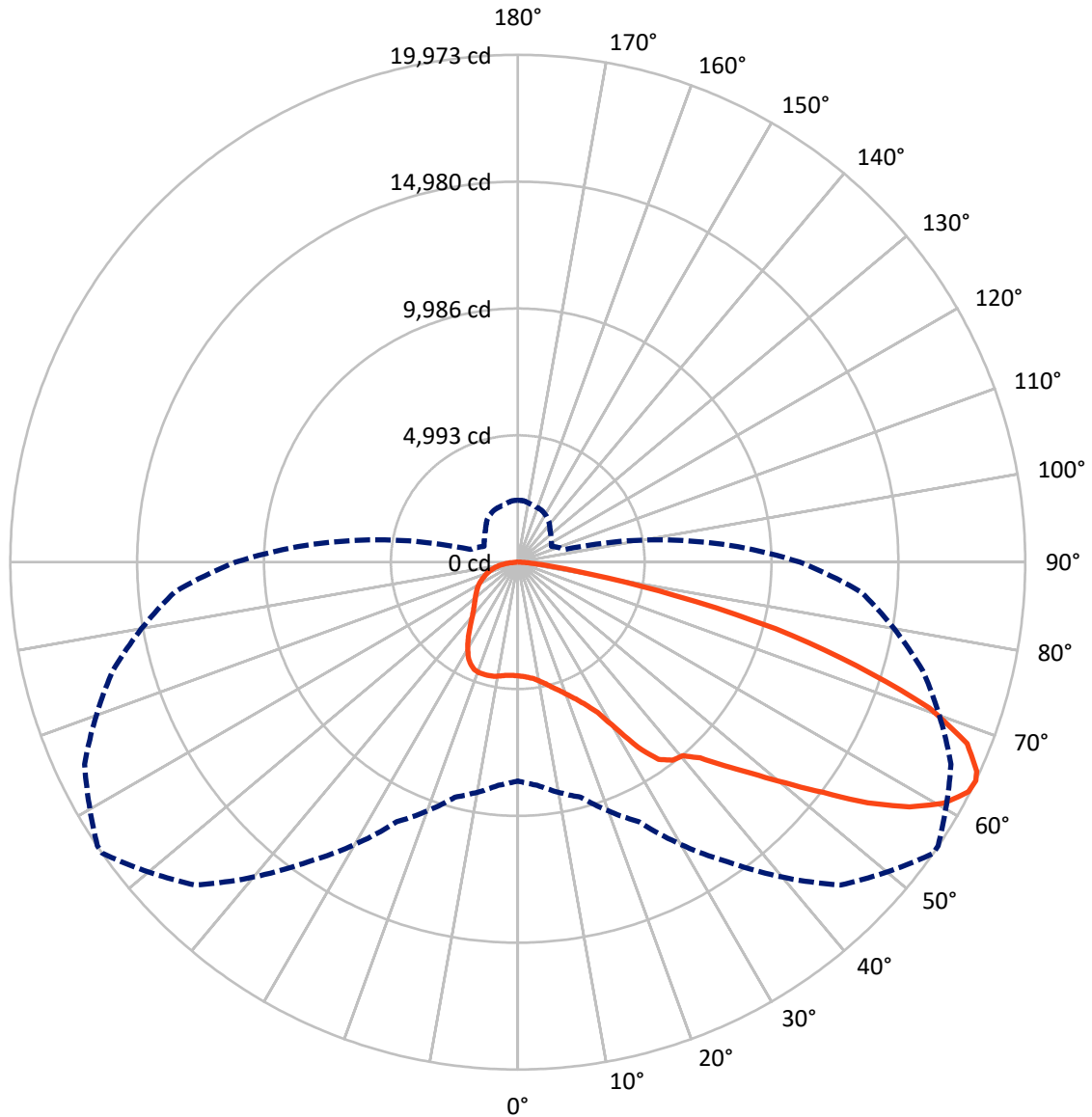
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	8101.4	0.0	8101.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	25248.6	0.0	25248.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	33350.0	0.0	33350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.3	1.3
10°-20°	1373.4	4.1
20°-30°	2445.0	7.3
30°-40°	3761.8	11.3
40°-50°	5332.7	16.0
50°-60°	7718.9	23.1
60°-70°	7988.3	24.0
70°-80°	3740.9	11.2
80°-90°	553.8	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°	33350.0	100.0
0°-180°	33350.0	100.0

Coefficient of Utilization



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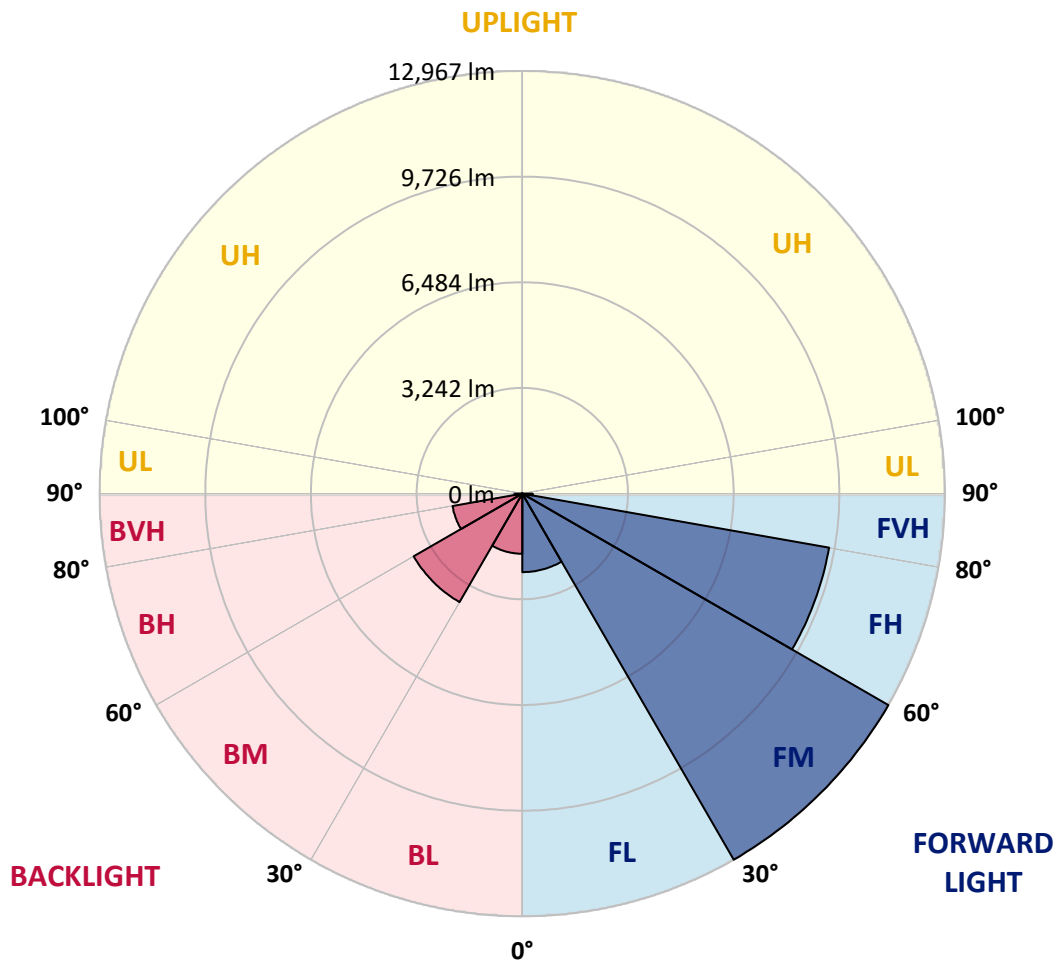
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2408.4	7.2			
FM	(30°-60°)	12967.4	38.9			
FH	(60°-80°)	9555.8	28.7			G4/12000
FVH	(80°-90°)	317.1	1.0			G3/500
BL	(0°-30°)	1845.2	5.5	B3/2500		
BM	(30°-60°)	3846.0	11.5	B3/5000		
BH	(60°-80°)	2173.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	236.7	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°	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4524.8	4522.9	4528.5	4522.9	4526.6	4513.6	4508.0	4511.7	4506.2	4496.9	4480.1
5°	4580.5	4578.7	4580.5	4573.1	4576.8	4569.4	4556.4	4560.1	4550.8	4530.3	4506.2
7.5°	4675.3	4667.9	4667.9	4666.0	4658.6	4647.4	4638.2	4634.4	4625.1	4599.1	4561.9
10°	4798.0	4798.0	4799.9	4785.0	4794.3	4773.9	4764.6	4762.7	4731.1	4697.6	4645.6
12.5°	4959.8	4969.1	4963.5	4956.0	4952.3	4944.9	4913.3	4920.7	4885.4	4827.8	4764.6
15°	5160.5	5175.4	5166.1	5162.4	5153.1	5125.2	5112.2	5106.6	5060.1	4976.5	4892.8
17.5°	5426.4	5407.8	5400.3	5391.0	5352.0	5331.6	5309.2	5305.5	5264.6	5166.1	5036.0
20°	5658.7	5684.8	5669.9	5660.6	5621.6	5582.5	5565.8	5560.2	5524.9	5417.1	5208.9
22.5°	5935.7	5941.3	5946.9	5924.6	5906.0	5876.2	5846.5	5837.2	5824.2	5712.6	5458.0
25°	6231.3	6253.6	6235.0	6212.7	6190.4	6188.5	6216.4	6212.7	6207.1	6099.3	5788.9
27.5°	6712.8	6733.2	6738.8	6714.6	6629.1	6636.6	6699.8	6720.2	6805.7	6627.3	6214.6
30°	6984.2	7004.6	7051.1	7142.2	7277.9	7396.9	7549.3	7595.8	7677.6	7341.1	6720.2
32.5°	7151.5	7158.9	7242.6	7411.8	7818.9	8263.2	8677.7	8694.4	8746.5	8274.3	7183.1
35°	7415.5	7421.0	7488.0	7673.9	8151.6	8891.5	9532.8	9553.3	9510.5	8564.3	7398.7
37.5°	7740.8	7755.7	7798.4	7952.7	8523.4	9417.6	9887.9	9873.0	9493.8	8794.8	7779.8
40°	8214.8	8214.8	8164.6	8372.8	8915.7	9718.7	10012.5	9986.4	9886.1	9462.2	8359.8
42.5°	8633.1	8625.7	8744.6	8885.9	9406.4	10183.5	10534.8	10577.6	10743.0	10300.6	9019.8
45°	9177.8	9211.2	9278.2	9534.7	10241.1	10977.3	11430.9	11471.8	11706.0	11287.7	9791.2
47.5°	9728.0	9739.2	9949.3	10291.3	11274.7	12053.6	12425.4	12492.3	12706.1	12442.1	10622.2
50°	10118.4	10224.4	10560.9	11100.0	12339.9	13366.1	13656.1	13736.0	14113.4	13698.8	11590.7
52.5°	10531.1	10635.2	11046.1	11867.7	13563.1	14708.2	15065.2	15119.1	15511.3	14970.4	12581.6
55°	10884.3	10981.0	11447.6	12548.1	14537.2	16078.3	16725.2	16662.0	16849.8	15950.0	13345.6
57.5°	10942.0	11020.0	11607.5	12983.1	15269.7	17253.2	18180.8	18218.0	18000.5	16682.5	13975.8
60°	10495.8	10655.7	11330.5	12936.6	15598.7	18071.1	19266.5	19292.5	18675.3	17058.0	14226.8
62.5°	9705.7	9689.0	10505.1	12189.3	15137.7	18257.0	19906.0	19878.1	18939.3	16877.7	13983.2
64°	8614.5	8815.3	9577.5	11271.0	14394.1	17970.8	19972.9	19958.0	18812.9	16502.2	13568.7
65°	7949.0	7937.8	8690.7	10520.0	13654.2	17539.5	19853.9	19833.5	18548.9	16165.7	13247.1
67.5°	5738.7	5764.7	6508.3	8118.2	11100.0	15853.4	19078.7	19002.5	17507.9	15050.3	12023.9
70°	3476.3	3491.2	4074.9	5385.5	7967.6	12815.8	17197.4	17201.1	15914.7	13384.7	10233.7
72.5°	1831.1	1870.1	2104.4	3058.0	4838.9	8991.9	13951.6	14282.5	13663.5	11423.4	8084.7
75°	1018.7	1024.3	1189.7	1507.6	2468.7	5032.3	10486.5	10581.3	10817.4	9194.5	5978.5
77.5°	777.1	788.2	840.3	974.1	1344.0	2333.0	6346.6	6822.5	7623.7	6482.3	3411.2
80°	630.2	641.3	686.0	765.9	894.2	1106.1	2948.3	3204.9	4080.5	2877.7	1331.0
82.5°	490.8	483.3	541.0	593.0	650.6	654.4	1210.2	1338.5	1661.9	1238.1	576.3
85°	364.4	364.4	410.8	399.7	420.1	382.9	533.5	589.3	665.5	526.1	267.7
87.5°	145.0	159.9	269.6	241.7	187.8	150.6	197.1	208.2	230.5	206.3	111.5
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°	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4482.0	4487.6	4474.6	4465.3	4461.6	4456.0	4450.4	4452.3	4459.7	4467.1	4465.3
5°	4504.3	4506.2	4483.9	4472.7	4465.3	4457.8	4457.8	4463.4	4478.3	4489.4	4489.4
7.5°	4560.1	4560.1	4528.5	4508.0	4496.9	4483.9	4480.1	4482.0	4493.2	4508.0	4509.9
10°	4647.4	4640.0	4599.1	4567.5	4547.1	4515.5	4487.6	4472.7	4478.3	4487.6	4487.6
12.5°	4753.4	4733.0	4680.9	4638.2	4588.0	4528.5	4470.8	4441.1	4439.2	4448.5	4444.8
15°	4866.8	4844.5	4772.0	4693.9	4606.6	4519.2	4450.4	4407.6	4374.2	4364.9	4385.3
17.5°	4998.8	4952.3	4851.9	4744.1	4614.0	4500.6	4392.8	4305.4	4245.9	4229.2	4234.8
20°	5158.7	5097.3	4961.6	4792.4	4608.4	4433.7	4266.4	4149.2	4052.6	4022.8	4026.5
22.5°	5379.9	5273.9	5075.0	4816.6	4561.9	4307.3	4074.9	3922.4	3805.3	3758.9	3786.7
25°	5630.8	5515.6	5182.8	4811.0	4441.1	4104.6	3848.1	3649.2	3543.2	3474.4	3489.3
27.5°	5976.6	5772.1	5298.1	4760.8	4268.2	3857.4	3559.9	3372.2	3275.5	3240.2	3256.9
30°	6419.1	6104.9	5422.6	4625.1	3994.9	3545.1	3269.9	3147.3	3089.6	3045.0	3059.9
32.5°	6738.8	6339.1	5450.5	4396.5	3699.4	3260.6	3072.9	2981.8	2918.6	2875.8	2885.1
35°	6967.5	6538.0	5437.5	4115.8	3390.8	3026.4	2916.7	2842.4	2740.1	2647.2	2630.5
37.5°	7274.2	6787.1	5342.7	3809.0	3085.9	2868.4	2790.3	2652.8	2505.9	2381.4	2375.8
40°	7744.5	7079.0	5140.1	3448.4	2825.6	2751.3	2656.5	2478.0	2320.0	2219.6	2212.2
42.5°	8229.7	7348.5	4864.9	3069.2	2611.9	2628.6	2513.3	2336.7	2240.1	2175.0	2167.6
45°	8822.7	7640.4	4567.5	2740.1	2453.9	2513.3	2388.8	2286.5	2228.9	2186.2	2175.0
47.5°	9464.1	7939.7	4232.9	2444.6	2320.0	2407.4	2336.7	2290.3	2258.7	2228.9	2215.9
50°	10155.6	8274.3	3918.7	2206.6	2199.2	2297.7	2331.2	2314.4	2295.8	2286.5	2275.4
52.5°	10914.1	8616.4	3654.8	2039.3	2093.2	2219.6	2333.0	2346.0	2346.0	2340.5	2333.0
55°	11427.1	8854.3	3387.1	1903.6	1985.4	2156.4	2329.3	2379.5	2398.1	2390.6	2383.2
57.5°	11806.4	8984.4	3050.6	1786.5	1894.3	2095.1	2308.9	2383.2	2401.8	2411.1	2407.4
60°	11884.5	8863.6	2610.0	1663.8	1795.8	2005.8	2234.5	2327.4	2351.6	2409.2	2414.8
62.5°	11533.1	8491.8	2171.3	1543.0	1674.9	1870.1	2134.1	2264.2	2312.6	2401.8	2411.1
64°	11101.8	8075.4	1927.8	1466.7	1596.9	1793.9	2083.9	2247.5	2310.7	2429.7	2437.1
65°	10785.8	7772.4	1775.3	1418.4	1546.7	1743.7	2056.0	2253.1	2327.4	2472.4	2483.6
67.5°	9622.1	6729.5	1468.6	1305.0	1427.7	1658.2	2061.6	2299.6	2323.7	2489.2	2487.3
70°	7962.0	5357.6	1230.6	1200.9	1312.4	1589.4	2039.3	2225.2	2227.1	2336.7	2310.7
72.5°	5961.7	3959.6	1067.1	1093.1	1184.2	1425.8	1925.9	2124.8	2093.2	2108.1	2082.1
75°	4095.3	2619.3	918.3	977.8	1050.3	1260.4	1766.0	1929.6	1879.4	1860.8	1842.2
77.5°	2186.2	1448.1	764.0	864.4	912.8	1089.4	1541.1	1699.1	1647.1	1574.6	1550.4
80°	884.9	682.2	615.3	715.7	743.6	877.4	1282.7	1381.2	1342.2	1215.8	1174.9
82.5°	444.3	409.0	483.3	563.3	565.1	626.5	953.7	1046.6	959.2	804.9	769.6
85°	232.4	239.8	332.8	396.0	349.5	338.3	572.6	633.9	581.9	505.6	455.4
87.5°	83.7	96.7	174.7	172.9	122.7	65.1	126.4	61.3	33.5	20.4	26.0
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)