

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: P648568

Luminaire Tested: **GALN-SA7B-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648568
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-SA7B-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30774.3 lumens
Efficiency: N/A
Efficacy: 107.6 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

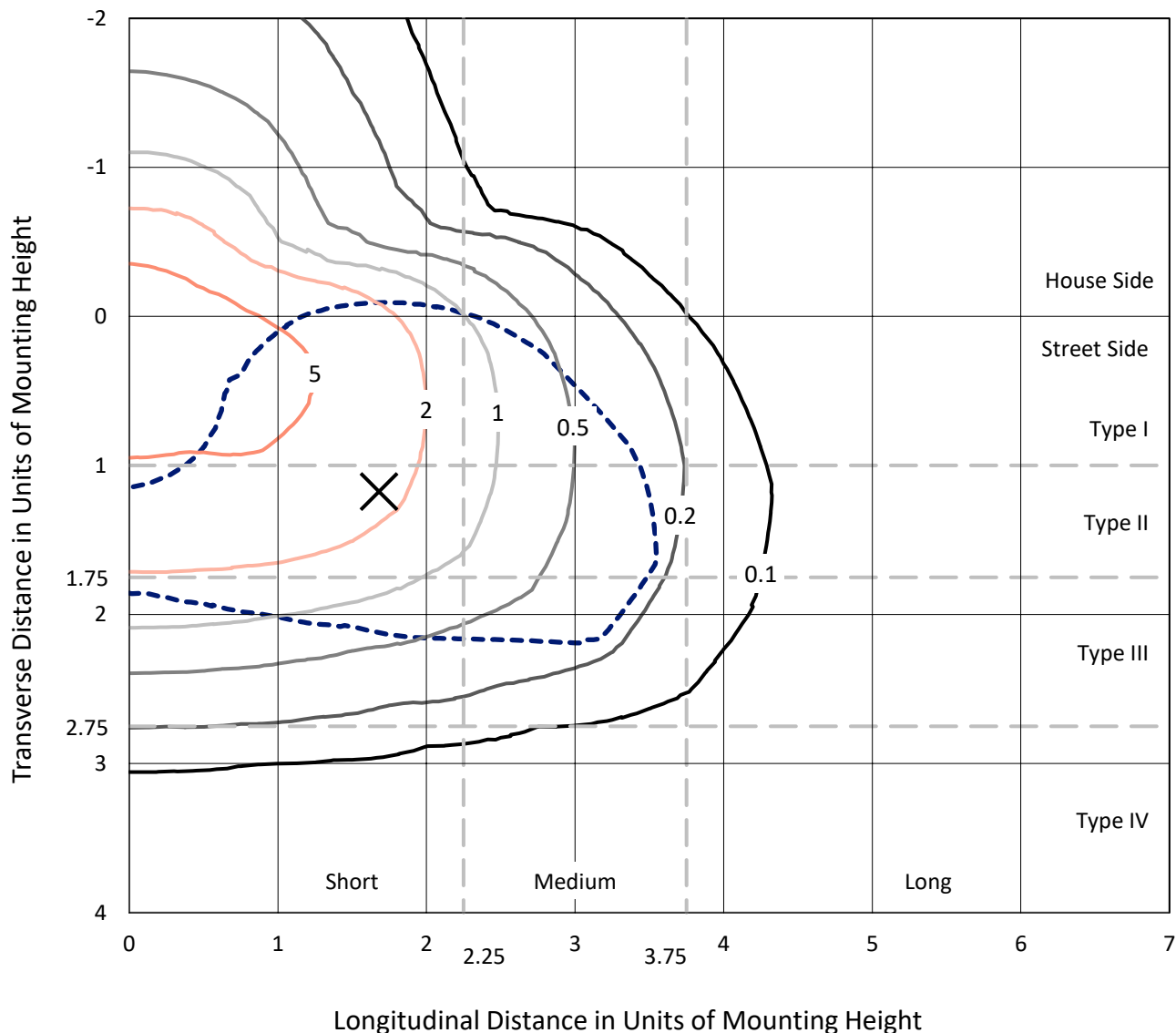
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

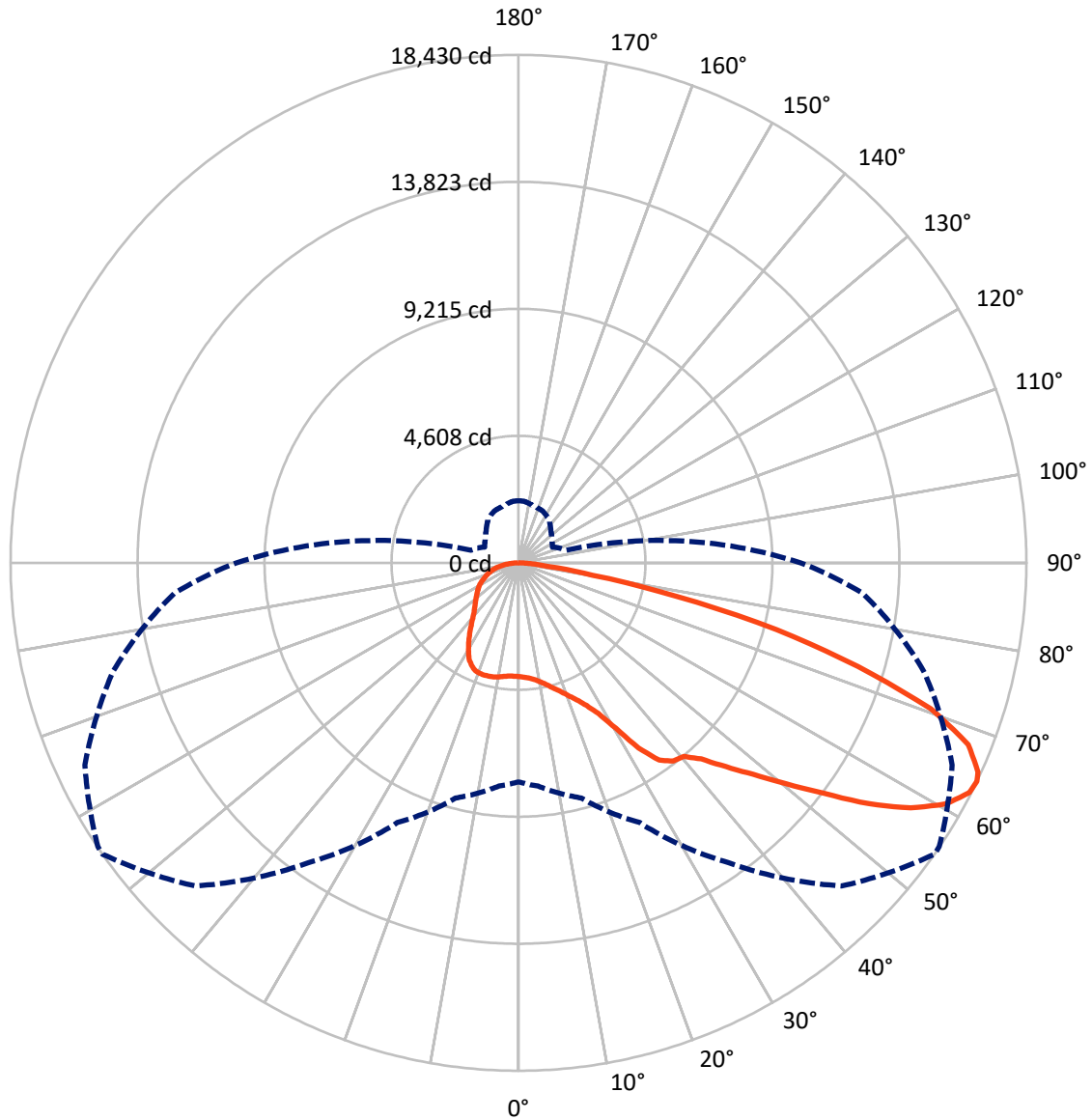
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	7475.7	0.0	7475.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	23298.6	0.0	23298.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	30774.3	0.0	30774.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	1.3
10°-20°	1267.3	4.1
20°-30°	2256.1	7.3
30°-40°	3471.3	11.3
40°-50°	4920.8	16.0
50°-60°	7122.8	23.1
60°-70°	7371.3	24.0
70°-80°	3452.0	11.2
80°-90°	511.0	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°	30774.3	100.0
0°-180°	30774.3	100.0

Coefficient of Utilization

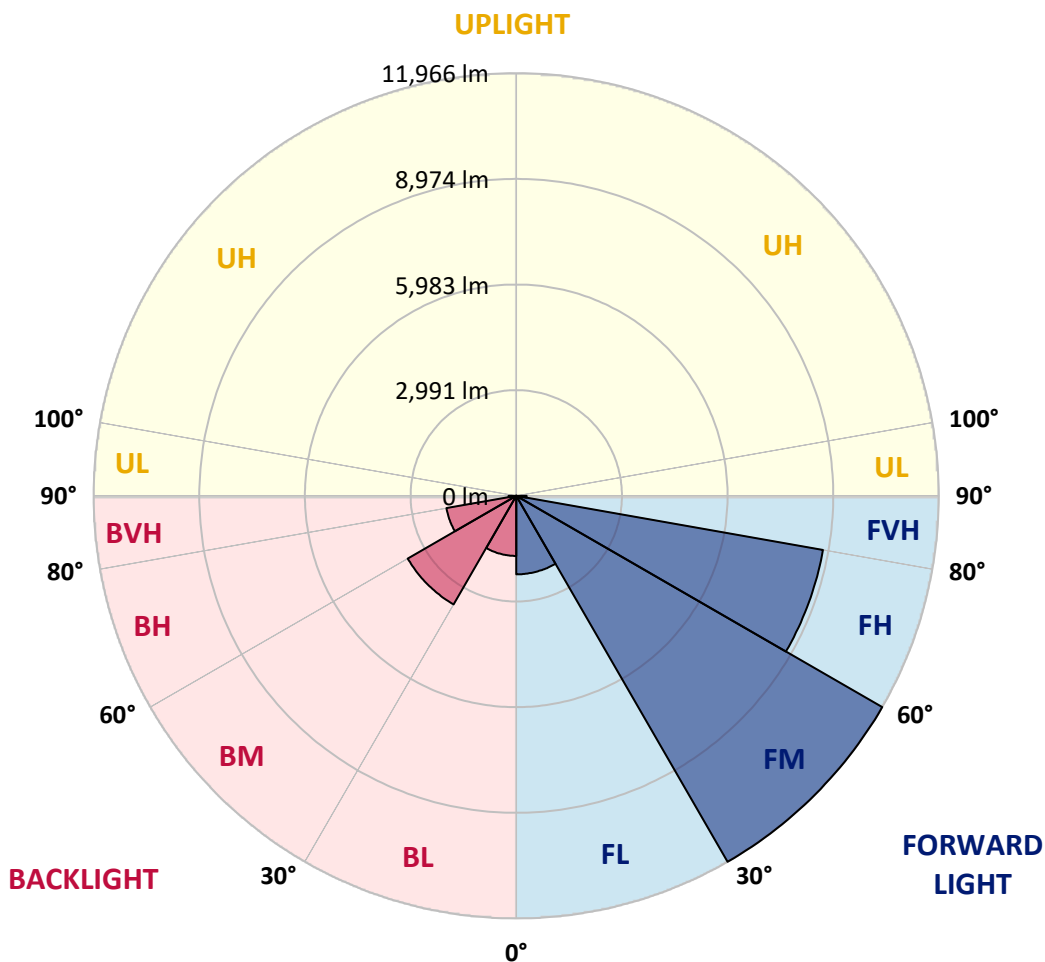


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2222.4	7.2			
FM	(30°-60°)	11965.9	38.9			
FH	(60°-80°)	8817.7	28.7			G4/12000
FVH	(80°-90°)	292.6	1.0			G3/500
BL	(0°-30°)	1702.7	5.5	B3/2500		
BM	(30°-60°)	3549.0	11.5	B3/5000		
BH	(60°-80°)	2005.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	218.4	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0
2.5°	4175.3	4173.5	4178.7	4173.5	4177.0	4165.0	4159.8	4163.3	4158.1	4149.6	4134.1
5°	4226.8	4225.1	4226.8	4219.9	4223.3	4216.5	4204.5	4207.9	4199.3	4180.4	4158.1
7.5°	4314.3	4307.4	4307.4	4305.6	4298.8	4288.5	4280.0	4276.5	4267.9	4243.9	4209.6
10°	4427.5	4427.5	4429.2	4415.4	4424.0	4405.2	4396.5	4394.9	4365.7	4334.8	4286.8
12.5°	4576.7	4585.2	4580.2	4573.3	4569.8	4563.0	4533.8	4540.7	4508.0	4454.9	4396.5
15°	4762.0	4775.7	4767.1	4763.7	4755.1	4729.4	4717.3	4712.3	4669.3	4592.1	4514.9
17.5°	5007.3	4990.1	4983.2	4974.6	4938.6	4919.7	4899.2	4895.8	4858.0	4767.1	4647.0
20°	5221.7	5245.7	5232.0	5223.4	5187.4	5151.4	5135.9	5130.8	5098.2	4998.7	4806.5
22.5°	5477.3	5482.4	5487.6	5467.0	5449.8	5422.4	5394.9	5386.3	5374.4	5271.5	5036.4
25°	5750.0	5770.6	5753.5	5732.9	5712.3	5710.6	5736.3	5732.9	5727.7	5628.2	5341.8
27.5°	6194.3	6213.2	6218.4	6196.0	6117.1	6124.0	6182.3	6201.2	6280.1	6115.4	5734.6
30°	6444.8	6463.7	6506.5	6590.6	6715.8	6825.6	6966.3	7009.1	7084.6	6774.1	6201.2
32.5°	6599.1	6606.0	6683.2	6839.3	7215.0	7624.9	8007.5	8022.9	8071.0	7635.3	6628.3
35°	6842.7	6847.9	6909.7	7081.2	7522.0	8204.7	8796.6	8815.5	8776.0	7902.9	6827.3
37.5°	7142.9	7156.7	7196.1	7338.5	7865.2	8690.2	9124.2	9110.5	8760.6	8115.6	7178.9
40°	7580.4	7580.4	7534.0	7726.2	8227.1	8968.1	9239.2	9215.1	9122.5	8731.4	7714.2
42.5°	7966.3	7959.5	8069.3	8199.7	8679.9	9396.9	9721.2	9760.6	9913.3	9505.1	8323.1
45°	8468.9	8499.9	8561.6	8798.3	9450.2	10129.4	10548.0	10585.8	10801.9	10415.9	9035.0
47.5°	8976.7	8987.0	9180.8	9496.5	10404.0	11122.7	11465.8	11527.5	11724.8	11481.2	9801.8
50°	9337.0	9434.7	9745.2	10242.7	11386.9	12333.7	12601.4	12675.1	13023.3	12640.8	10695.5
52.5°	9717.7	9813.8	10192.9	10951.1	12515.6	13572.3	13901.6	13951.3	14313.3	13814.2	11609.9
55°	10043.7	10132.9	10563.5	11579.0	13414.4	14836.5	15433.5	15375.1	15548.4	14718.1	12314.9
57.5°	10096.9	10168.9	10711.0	11980.4	14090.3	15920.7	16776.6	16810.9	16610.2	15394.0	12896.4
60°	9685.2	9832.7	10455.4	11937.5	14394.0	16675.5	17778.4	17802.4	17233.0	15740.6	13128.0
62.5°	8956.1	8940.7	9693.8	11247.9	13968.6	16846.9	18368.6	18342.8	17476.6	15574.2	12903.3
64°	7949.2	8134.4	8837.7	10400.5	13282.3	16582.8	18430.3	18416.6	17359.9	15227.6	12520.7
65°	7335.1	7324.8	8019.5	9707.5	12599.6	16184.8	18320.5	18301.6	17116.3	14917.2	12224.0
67.5°	5295.4	5319.5	6005.6	7491.2	10242.7	14628.9	17605.2	17534.8	16155.6	13887.9	11095.3
70°	3207.8	3221.5	3760.2	4969.5	7352.2	11826.0	15869.2	15872.7	14685.6	12350.9	9443.3
72.5°	1689.6	1725.7	1941.8	2821.9	4465.2	8297.4	12874.1	13179.5	12608.2	10541.1	7460.3
75°	940.1	945.2	1097.8	1391.2	2278.1	4643.6	9676.6	9764.1	9981.9	8484.4	5516.7
77.5°	717.1	727.3	775.3	898.9	1240.3	2152.9	5856.4	6295.6	7034.9	5981.6	3147.7
80°	581.5	591.8	633.0	706.7	825.1	1020.6	2720.6	2957.4	3765.3	2655.5	1228.2
82.5°	452.9	446.0	499.2	547.2	600.4	603.8	1116.7	1235.1	1533.6	1142.5	531.8
85°	336.2	336.2	379.1	368.8	387.7	353.4	492.4	543.8	614.1	485.5	247.0
87.5°	133.8	147.5	248.8	223.0	173.3	139.0	181.8	192.1	212.7	190.4	102.9
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°	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0	4129.0
2.5°	4135.8	4141.0	4129.0	4120.4	4116.9	4111.8	4106.7	4108.4	4115.2	4122.1	4120.4
5°	4156.4	4158.1	4137.5	4127.3	4120.4	4113.6	4113.6	4118.7	4132.4	4142.7	4142.7
7.5°	4207.9	4207.9	4178.7	4159.8	4149.6	4137.5	4134.1	4135.8	4146.1	4159.8	4161.6
10°	4288.5	4281.7	4243.9	4214.7	4195.9	4166.7	4141.0	4127.3	4132.4	4141.0	4141.0
12.5°	4386.3	4367.4	4319.4	4280.0	4233.6	4178.7	4125.5	4098.1	4096.4	4105.0	4101.5
15°	4490.9	4470.3	4403.4	4331.4	4250.8	4170.2	4106.7	4067.2	4036.4	4027.8	4046.6
17.5°	4612.7	4569.8	4477.2	4377.7	4257.6	4153.0	4053.5	3972.9	3918.0	3902.6	3907.7
20°	4760.2	4703.6	4578.4	4422.3	4252.5	4091.3	3936.8	3828.8	3739.6	3712.1	3715.6
22.5°	4964.4	4866.6	4683.0	4444.6	4209.6	3974.6	3760.2	3619.5	3511.4	3468.5	3494.3
25°	5196.0	5089.6	4782.6	4439.5	4098.1	3787.6	3550.9	3367.4	3269.6	3206.1	3219.8
27.5°	5515.0	5326.4	4888.9	4393.2	3938.6	3559.4	3285.0	3111.7	3022.5	2990.0	3005.4
30°	5923.3	5633.4	5003.8	4267.9	3686.4	3271.3	3017.4	2904.1	2851.0	2809.8	2823.6
32.5°	6218.4	5849.6	5029.6	4057.0	3413.6	3008.8	2835.6	2751.5	2693.2	2653.7	2662.3
35°	6429.4	6033.1	5017.5	3797.9	3128.9	2792.6	2691.5	2622.8	2528.5	2442.7	2427.3
37.5°	6712.3	6262.9	4930.1	3514.9	2847.5	2646.9	2574.8	2447.9	2312.4	2197.4	2192.3
40°	7146.4	6532.3	4743.1	3182.0	2607.4	2538.8	2451.3	2286.6	2140.8	2048.2	2041.4
42.5°	7594.1	6781.0	4489.2	2832.1	2410.2	2425.6	2319.2	2156.2	2067.0	2007.0	2000.2
45°	8141.3	7050.3	4214.7	2528.5	2264.4	2319.2	2204.3	2110.0	2056.8	2017.3	2007.0
47.5°	8733.1	7326.5	3906.0	2255.7	2140.8	2221.4	2156.2	2113.4	2084.2	2056.8	2044.7
50°	9371.3	7635.3	3616.1	2036.2	2029.3	2120.2	2151.1	2135.7	2118.5	2110.0	2099.6
52.5°	10071.1	7950.9	3372.5	1881.8	1931.6	2048.2	2152.9	2164.8	2164.8	2159.7	2152.9
55°	10544.6	8170.4	3125.5	1756.6	1832.1	1989.8	2149.4	2195.7	2212.8	2206.0	2199.1
57.5°	10894.5	8290.6	2815.0	1648.5	1748.0	1933.2	2130.5	2199.1	2216.3	2224.9	2221.4
60°	10966.5	8179.1	2408.4	1535.3	1657.1	1850.9	2062.0	2147.7	2170.0	2223.2	2228.3
62.5°	10642.4	7836.0	2003.6	1423.8	1545.6	1725.7	1969.2	2089.4	2134.0	2216.3	2224.9
64°	10244.4	7451.7	1778.9	1353.4	1473.5	1655.3	1923.0	2073.9	2132.3	2242.0	2248.9
65°	9952.8	7172.1	1638.2	1308.9	1427.3	1609.1	1897.2	2079.1	2147.7	2281.5	2291.8
67.5°	8878.9	6209.7	1355.1	1204.2	1317.4	1530.1	1902.4	2121.9	2144.2	2296.9	2295.2
70°	7347.0	4943.8	1135.6	1108.2	1211.1	1466.6	1881.8	2053.3	2055.1	2156.2	2132.3
72.5°	5501.3	3653.8	984.6	1008.7	1092.7	1315.8	1777.2	1960.7	1931.6	1945.3	1921.2
75°	3779.1	2417.0	847.4	902.3	969.2	1163.1	1629.7	1780.6	1734.3	1717.1	1700.0
77.5°	2017.3	1336.3	705.0	797.6	842.3	1005.2	1422.1	1567.9	1519.9	1452.9	1430.6
80°	816.5	629.5	567.8	660.5	686.1	809.7	1183.7	1274.6	1238.5	1121.9	1084.1
82.5°	410.0	377.4	446.0	519.8	521.5	578.1	880.0	965.8	885.2	742.8	710.2
85°	214.5	221.3	307.1	365.3	322.5	312.2	528.4	585.0	536.9	466.6	420.2
87.5°	77.2	89.2	161.2	159.5	113.2	60.1	116.7	56.6	30.9	18.9	24.0
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)