

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: P457118

Luminaire Tested: **GALN-SA8B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36432 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

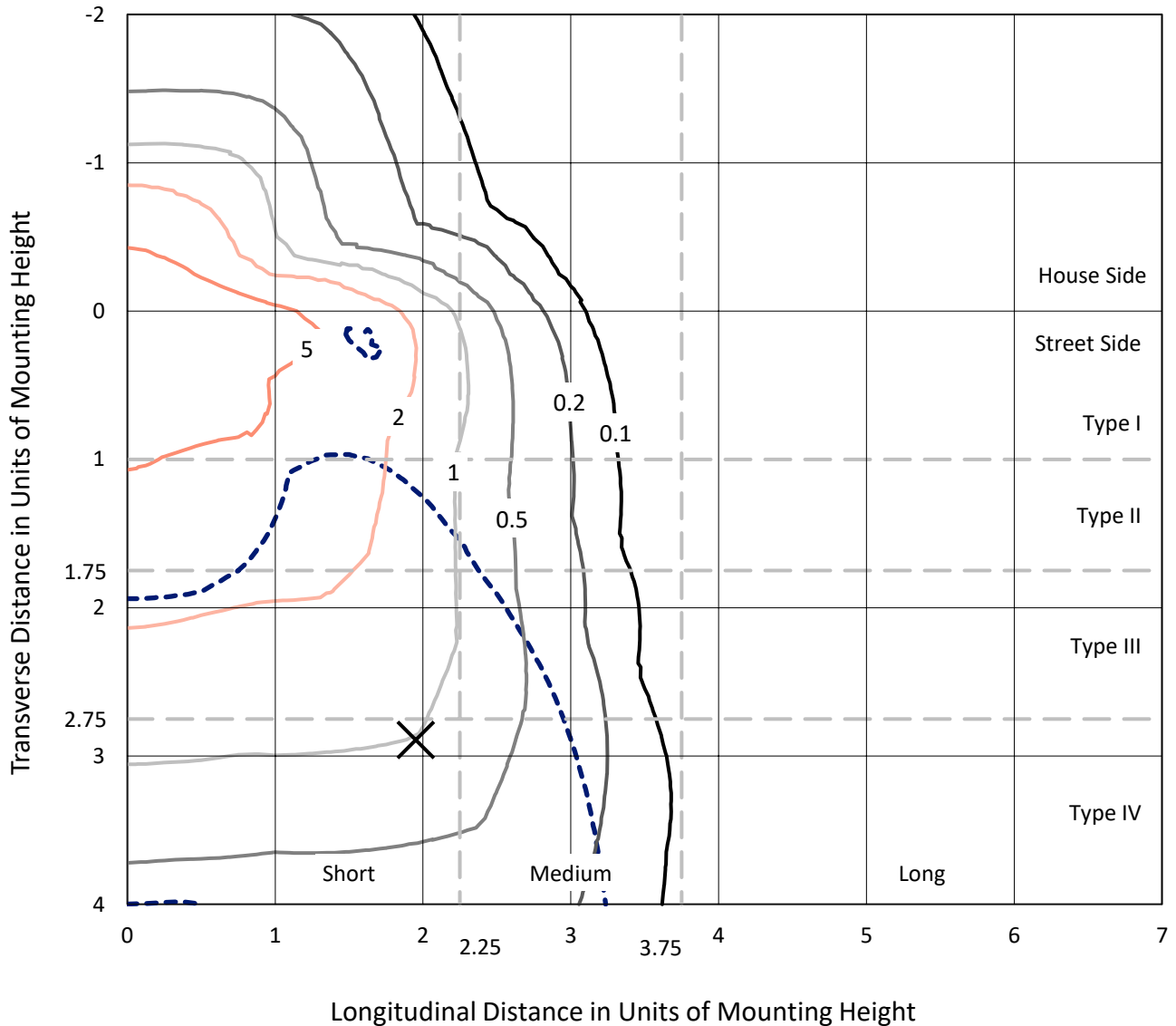
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

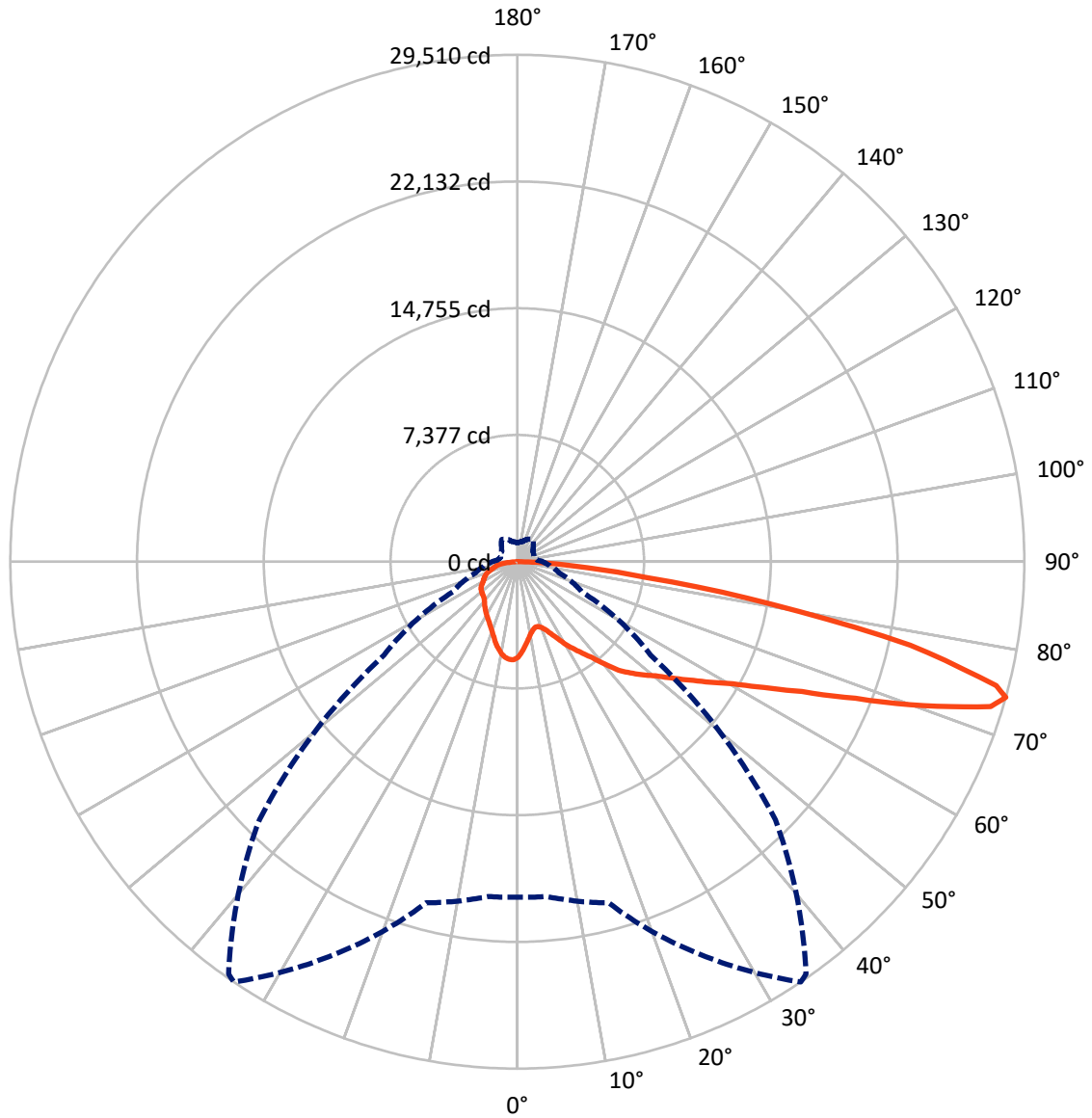
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7753.0	0.0	7753.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	28679.0	0.0	28679.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	36432.0	0.0	36432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.9	1.4
10°-20°	1384.8	3.8
20°-30°	2283.2	6.3
30°-40°	3420.0	9.4
40°-50°	4971.8	13.6
50°-60°	6944.4	19.1
60°-70°	8694.0	23.9
70°-80°	7189.2	19.7
80°-90°	1038.8	2.9
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°	36432.0	100.0
0°-180°	36432.0	100.0

Coefficient of Utilization



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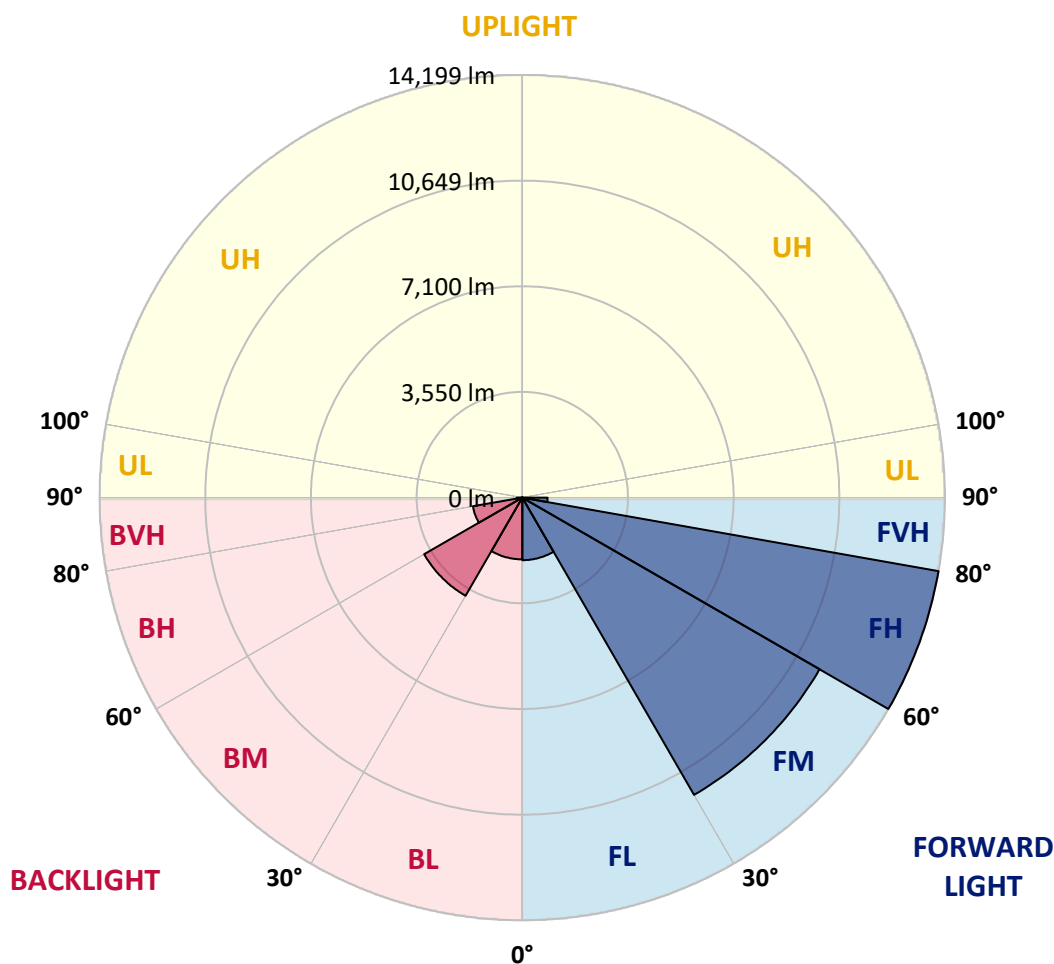
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.1	5.8			
FM (30°-60°)	11528.6	31.6			
FH (60°-80°)	14199.3	39.0			G5
FVH (80°-90°)	851.0	2.3			G5
BL (0°-30°)	2073.8	5.7	B3/2500		
BM (30°-60°)	3807.5	10.5	B3/5000		
BH (60°-80°)	1683.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	187.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4
2.5°	5140.6	5166.9	5181.0	5231.4	5243.6	5259.7	5302.1	5358.6	5431.3	5495.8	5552.4
5°	4712.7	4753.1	4777.3	4821.7	4908.5	4916.6	5029.6	5158.8	5306.1	5443.4	5556.4
7.5°	4307.1	4351.5	4371.6	4452.4	4567.4	4585.6	4751.1	4954.9	5201.2	5409.1	5582.6
10°	4002.3	4024.5	4068.9	4129.5	4266.7	4278.8	4494.8	4767.2	5086.1	5392.9	5627.0
12.5°	3836.8	3848.9	3859.0	3923.6	4058.8	4077.0	4303.0	4611.8	4995.3	5405.0	5699.7
15°	3861.0	3865.1	3820.6	3832.8	3941.7	3968.0	4192.0	4508.9	4938.8	5435.3	5808.7
17.5°	4064.9	4050.7	3941.7	3885.2	3961.9	3974.0	4169.8	4468.5	4912.6	5491.8	5921.7
20°	4385.8	4365.6	4177.9	4052.8	4097.2	4107.2	4242.5	4498.8	4938.8	5584.6	6097.3
22.5°	4785.4	4777.3	4492.7	4341.4	4339.4	4339.4	4410.0	4607.8	5017.5	5711.8	6281.0
25°	5344.5	5302.1	4930.7	4734.9	4680.4	4676.4	4668.3	4787.4	5118.4	5847.0	6498.9
27.5°	5917.7	5845.0	5514.0	5213.3	5096.2	5082.1	5029.6	5041.7	5247.6	6000.4	6747.2
30°	6432.3	6385.9	6075.1	5742.1	5602.8	5570.5	5425.2	5358.6	5463.5	6276.9	7142.8
32.5°	6825.9	6797.6	6555.5	6252.7	6046.8	6040.8	5828.9	5774.4	5800.6	6612.0	7594.9
35°	7144.8	7154.9	7031.8	6769.4	6533.3	6498.9	6357.7	6289.0	6212.3	7096.4	8164.0
37.5°	7580.7	7603.0	7594.9	7368.8	7080.2	7088.3	7056.0	6943.0	6739.1	7637.3	8795.8
40°	8061.1	8077.3	8075.2	7988.4	7837.1	7845.1	7833.0	7703.9	7399.1	8325.5	9498.1
42.5°	8725.1	8648.4	8448.6	8535.4	8624.2	8662.6	8745.3	8622.2	8204.4	9060.2	10158.1
45°	9467.9	9322.5	8870.4	8910.8	9239.8	9312.5	9768.6	9599.1	9078.3	9903.8	10935.2
47.5°	9936.1	9792.8	9411.4	9403.3	9839.2	9909.9	10717.2	10654.6	9873.5	10814.1	11883.8
50°	10353.9	10333.7	9903.8	10006.8	10432.6	10537.6	11750.6	11692.0	10666.7	11887.8	12917.1
52.5°	10973.5	10810.0	10466.9	10678.8	11242.0	11379.2	12775.9	12604.3	11395.3	12836.4	13920.2
55°	11252.0	11213.7	11193.5	11377.2	12150.2	12249.1	13772.9	13379.3	12017.0	13639.7	14683.2
57.5°	11996.8	11926.2	12126.0	12251.1	13219.9	13371.3	14814.4	14188.7	12561.9	14277.5	15054.5
60°	12961.5	12923.2	13106.9	13332.9	14414.7	14644.8	16001.1	14878.9	12999.9	14598.4	14850.7
62.5°	14402.6	14398.6	14364.3	14848.7	16108.1	16320.0	17363.5	15551.0	13068.5	14358.2	13797.1
65°	16469.4	16396.7	16098.0	16626.8	18215.2	18463.4	18782.3	15926.4	12654.8	13125.0	11617.4
67.5°	18631.0	18626.9	18384.7	19071.0	21240.6	21497.0	20556.4	15843.7	11506.4	10632.4	8250.8
70°	20423.2	20336.4	20645.2	22473.8	25105.7	25402.4	22108.5	14868.8	9165.1	7021.7	4902.5
72.5°	20853.1	20857.2	21499.0	25097.6	28817.3	28863.8	22667.6	12051.3	6133.6	3873.1	2452.2
74°	19529.1	19563.4	20558.4	25228.8	29509.6	29299.7	21238.6	9471.9	4147.6	2528.9	1768.0
75°	17825.7	17609.7	19048.8	24354.9	28791.1	28565.1	19565.4	7600.9	3164.7	2020.3	1548.0
77.5°	9530.4	9750.4	11970.6	18174.8	23390.1	23129.8	13266.3	3645.1	1709.5	1406.8	1114.1
80°	3392.8	3741.9	5259.7	9510.2	14996.0	15076.7	6331.4	1671.2	1202.9	1037.4	787.1
82.5°	1384.6	1422.9	2258.5	4220.3	7615.1	7687.7	2585.4	993.0	859.8	714.5	470.3
85°	540.9	557.1	999.1	1897.2	3249.5	3461.4	894.1	524.8	528.8	409.7	240.2
87.5°	181.6	205.9	409.7	631.7	1104.0	1081.8	260.4	155.4	189.7	177.6	74.7
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°	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4	5562.4
2.5°	5580.6	5619.0	5645.2	5673.5	5699.7	5707.8	5701.7	5719.9	5721.9	5723.9	5725.9
5°	5612.9	5665.4	5715.8	5744.1	5756.2	5746.1	5711.8	5693.6	5677.5	5665.4	5669.4
7.5°	5657.3	5732.0	5778.4	5790.5	5758.2	5711.8	5627.0	5560.4	5518.0	5489.8	5487.8
10°	5725.9	5798.6	5836.9	5802.6	5713.8	5600.8	5467.6	5342.5	5247.6	5219.3	5217.3
12.5°	5812.7	5895.5	5893.4	5792.5	5637.1	5435.3	5219.3	5074.0	4944.8	4880.3	4906.5
15°	5925.7	5988.3	5929.8	5748.1	5501.9	5225.4	4959.0	4761.2	4615.9	4547.2	4551.3
17.5°	6056.9	6111.4	5956.0	5669.4	5312.2	4957.0	4648.2	4460.5	4345.4	4295.0	4290.9
20°	6220.4	6236.6	5956.0	5532.2	5068.0	4644.1	4349.4	4218.3	4153.7	4127.4	4135.5
22.5°	6396.0	6363.7	5923.7	5338.4	4747.1	4317.2	4119.4	4060.8	4028.5	4024.5	4028.5
25°	6593.8	6503.0	5857.1	5076.0	4412.0	4034.6	3919.5	3929.6	3935.7	3935.7	3949.8
27.5°	6836.0	6654.3	5746.1	4745.0	4020.5	3772.2	3739.9	3810.6	3842.9	3848.9	3859.0
30°	7154.9	6819.8	5562.4	4331.3	3687.4	3536.1	3592.6	3687.4	3723.8	3746.0	3741.9
32.5°	7534.3	7001.5	5314.2	3917.5	3419.0	3370.6	3439.2	3536.1	3576.4	3588.5	3572.4
35°	7980.4	7207.4	4987.2	3530.0	3184.9	3213.1	3293.9	3324.1	3360.5	3360.5	3368.5
37.5°	8460.7	7372.9	4587.6	3174.8	3003.2	3106.2	3164.7	3136.4	3120.3	3100.1	3110.2
40°	8949.2	7496.0	4068.9	2823.6	2821.6	2995.2	3011.3	2930.6	2866.0	2845.8	2835.7
42.5°	9375.0	7572.7	3600.7	2551.1	2650.0	2886.2	2898.3	2769.1	2666.2	2605.6	2585.4
45°	9877.6	7661.5	3142.5	2325.1	2490.6	2799.4	2829.7	2656.1	2504.7	2377.6	2345.3
47.5°	10565.8	7863.3	2781.2	2149.5	2375.5	2744.9	2787.3	2563.2	2363.4	2197.9	2171.7
50°	11342.9	8139.8	2500.7	2030.4	2286.7	2696.5	2748.9	2468.4	2232.2	2048.6	2028.4
52.5°	12055.3	8289.2	2258.5	1923.4	2200.0	2607.6	2698.5	2399.8	2103.1	1899.2	1881.1
55°	12444.9	8047.0	2020.3	1818.5	2080.9	2492.6	2627.8	2304.9	1977.9	1820.5	1794.3
57.5°	12497.3	7546.4	1804.4	1705.5	1955.7	2351.3	2496.6	2189.9	1897.2	1766.0	1743.8
60°	12091.7	6799.7	1636.8	1612.6	1828.6	2191.9	2349.3	2088.9	1814.5	1705.5	1683.3
62.5°	11082.5	5988.3	1519.8	1527.9	1699.4	2024.4	2240.3	1992.1	1735.7	1638.9	1618.7
65°	9346.8	4942.8	1406.8	1441.1	1584.4	1893.2	2141.4	1911.3	1657.0	1588.4	1570.2
67.5°	6492.9	3568.4	1313.9	1350.2	1475.4	1760.0	2026.4	1824.5	1568.2	1531.9	1503.6
70°	3594.6	2195.9	1204.9	1247.3	1362.4	1610.6	1897.2	1693.4	1439.1	1422.9	1382.5
72.5°	1889.1	1398.7	1081.8	1128.2	1209.0	1418.9	1699.4	1550.1	1311.9	1243.3	1190.8
74°	1475.4	1146.4	999.1	1047.5	1102.0	1305.8	1582.4	1447.1	1221.1	1140.3	1100.0
75°	1285.7	1021.3	928.4	991.0	1039.4	1229.1	1491.5	1374.5	1170.6	1093.9	1057.6
77.5°	908.2	764.9	758.9	833.6	859.8	1077.8	1344.2	1251.3	1043.5	962.7	928.4
80°	637.8	573.2	601.5	647.9	684.2	952.6	1247.3	1081.8	855.8	760.9	748.8
82.5°	415.8	375.4	429.9	472.3	484.4	702.4	1007.1	821.4	623.7	506.6	470.3
85°	191.7	187.7	246.2	240.2	238.2	343.1	597.4	480.4	359.3	268.4	252.3
87.5°	48.4	46.4	60.5	50.5	60.5	52.5	54.5	14.1	2.0	0.0	0.0
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)