

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: P458017

Luminaire Tested: **GALN-SA9B-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458017
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-SA9B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 37837 lumens
Efficiency: N/A
Efficacy: 103.9 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

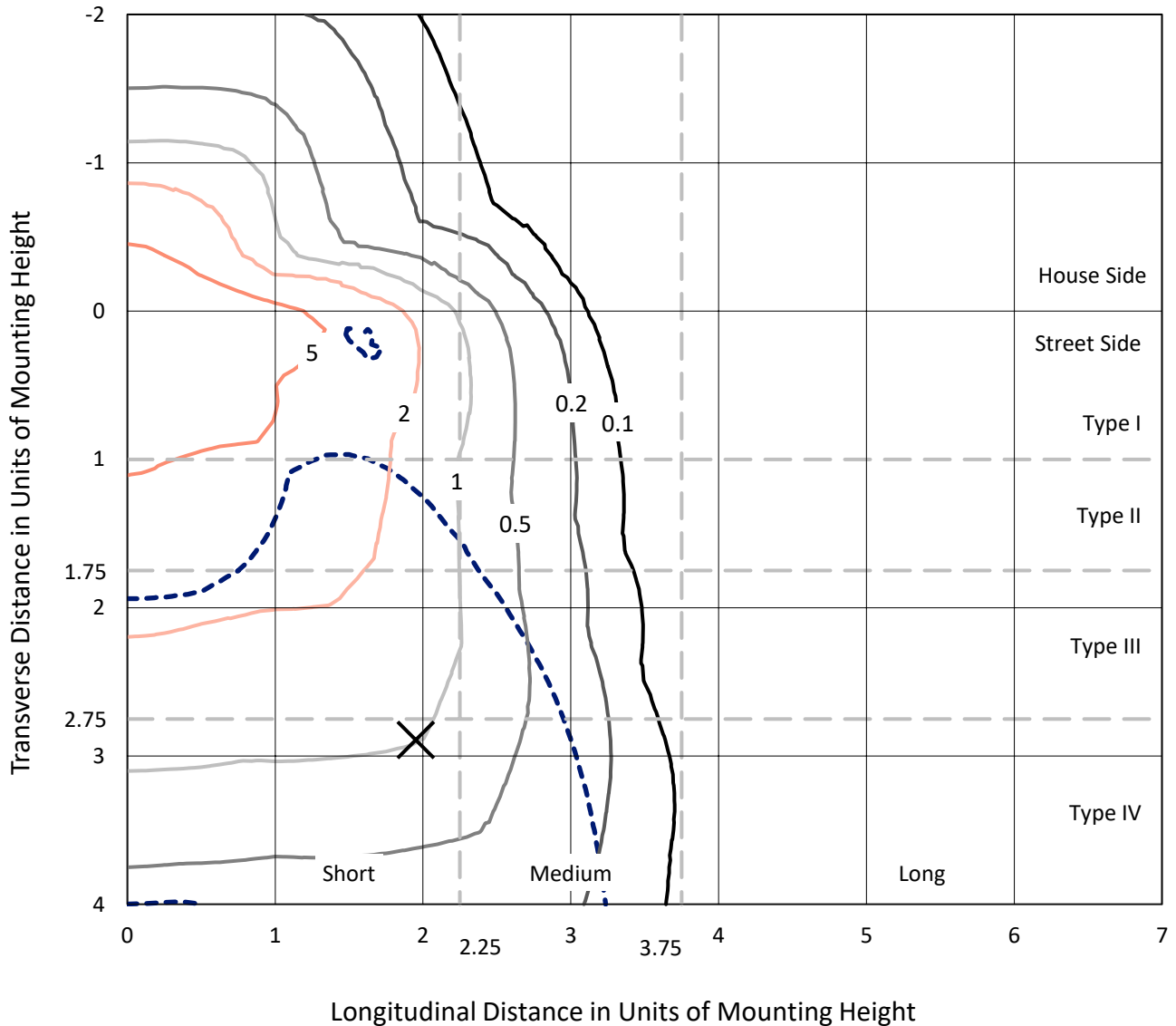
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

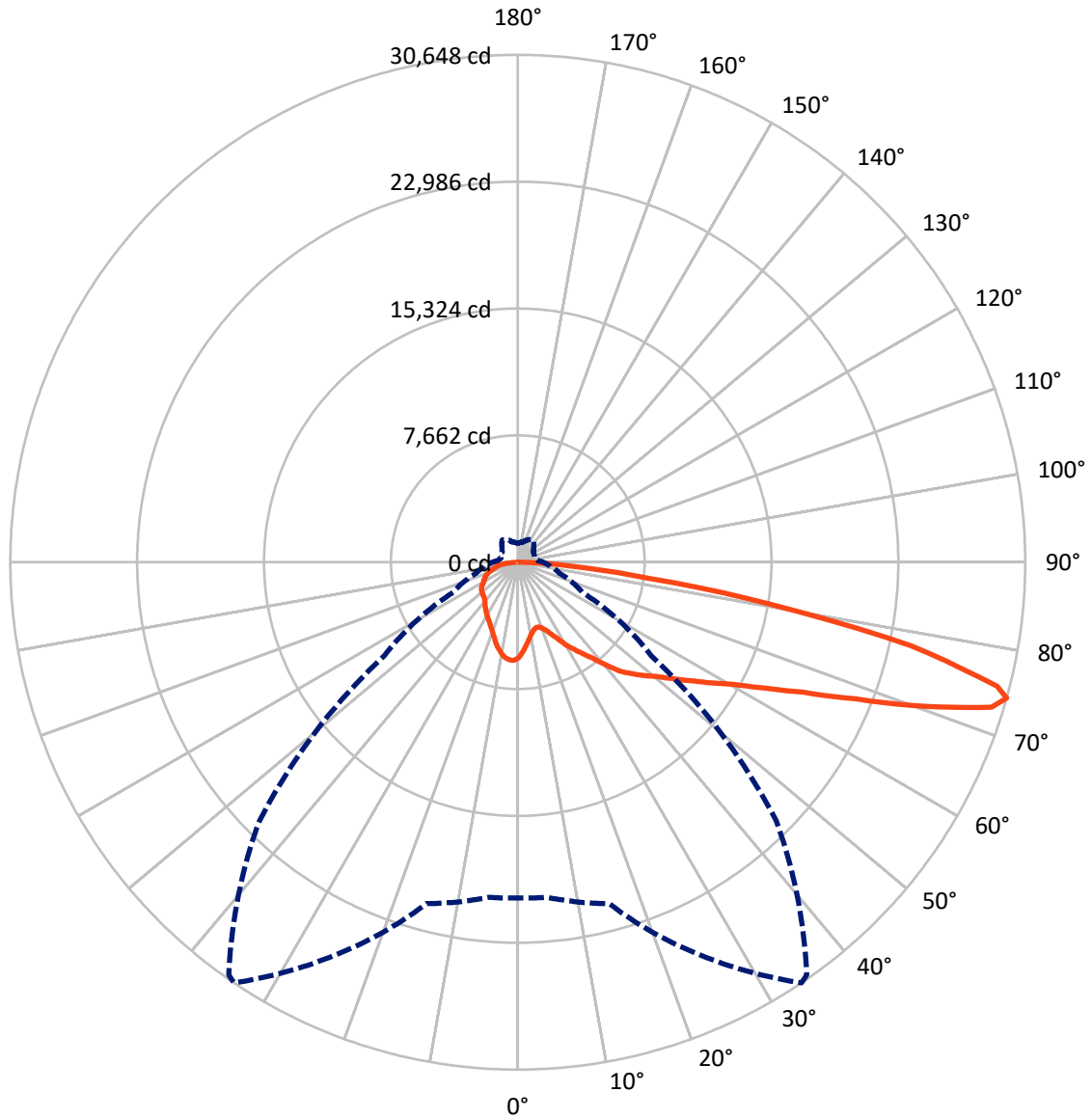
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	8052.0	0.0	8052.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	29785.0	0.0	29785.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	37837.0	0.0	37837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.4	1.4
10°-20°	1438.2	3.8
20°-30°	2371.3	6.3
30°-40°	3551.9	9.4
40°-50°	5163.5	13.6
50°-60°	7212.2	19.1
60°-70°	9029.2	23.9
70°-80°	7466.5	19.7
80°-90°	1078.8	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°	37837.0	100.0
0°-180°	37837.0	100.0

Coefficient of Utilization



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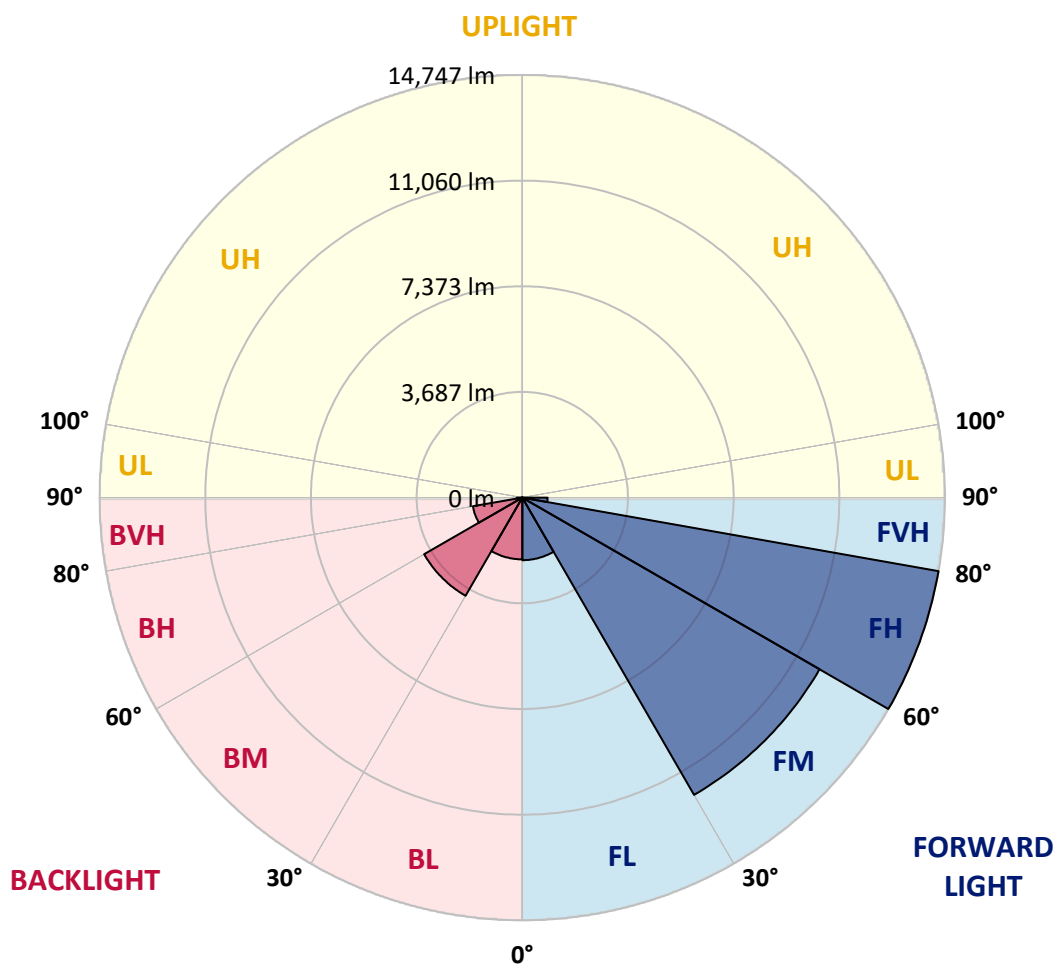
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2181.1	5.8			
FM	(30°-60°)	11973.2	31.6			
FH	(60°-80°)	14746.9	39.0			G5
FVH	(80°-90°)	883.8	2.3			G5
BL	(0°-30°)	2153.8	5.7	B3/2500		
BM	(30°-60°)	3954.3	10.5	B3/5000		
BH	(60°-80°)	1748.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	195.0	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°	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0
2.5°	5338.9	5366.1	5380.8	5433.2	5445.8	5462.5	5506.6	5565.3	5640.7	5707.8	5766.5
5°	4894.5	4936.4	4961.6	5007.7	5097.8	5106.2	5223.6	5357.7	5510.8	5653.3	5770.7
7.5°	4473.2	4519.3	4540.2	4624.1	4743.6	4762.4	4934.3	5146.0	5401.8	5617.7	5797.9
10°	4156.6	4179.7	4225.8	4288.7	4431.2	4443.8	4668.1	4951.1	5282.3	5600.9	5844.0
12.5°	3984.8	3997.3	4007.8	4074.9	4215.3	4234.2	4469.0	4789.7	5187.9	5613.5	5919.5
15°	4009.9	4014.1	3968.0	3980.6	4093.8	4121.0	4353.7	4682.8	5129.3	5644.9	6032.7
17.5°	4221.6	4207.0	4093.8	4035.1	4114.7	4127.3	4330.6	4640.9	5102.0	5703.6	6150.1
20°	4554.9	4534.0	4339.0	4209.0	4255.2	4265.6	4406.1	4672.3	5129.3	5800.0	6332.4
22.5°	4969.9	4961.6	4666.0	4508.8	4506.7	4506.7	4580.1	4785.5	5211.0	5932.1	6523.2
25°	5550.6	5506.6	5120.9	4917.5	4860.9	4856.8	4848.4	4972.0	5315.8	6072.5	6749.6
27.5°	6145.9	6070.4	5726.7	5414.3	5292.8	5278.1	5223.6	5236.2	5450.0	6231.8	7007.4
30°	6680.4	6632.2	6309.4	5963.5	5818.9	5785.3	5634.4	5565.3	5674.3	6519.0	7418.2
32.5°	7089.1	7059.8	6808.3	6493.8	6280.0	6273.7	6053.7	5997.1	6024.3	6867.0	7887.8
35°	7420.3	7430.8	7303.0	7030.5	6785.2	6749.6	6602.8	6531.6	6451.9	7370.0	8478.9
37.5°	7873.1	7896.2	7887.8	7653.0	7353.3	7361.6	7328.1	7210.7	6999.0	7931.8	9135.0
40°	8372.0	8388.8	8386.7	8296.5	8139.3	8147.7	8135.1	8001.0	7684.4	8646.6	9864.4
42.5°	9061.6	8982.0	8774.4	8864.6	8956.8	8996.6	9082.6	8954.7	8520.8	9409.6	10549.9
45°	9833.0	9682.1	9212.5	9254.5	9596.1	9671.6	10145.3	9969.2	9428.4	10285.8	11356.9
47.5°	10319.3	10170.5	9774.3	9765.9	10218.7	10292.0	11130.5	11065.5	10254.3	11231.1	12342.1
50°	10753.2	10732.2	10285.8	10392.7	10834.9	10943.9	12203.7	12142.9	11078.1	12346.3	13415.3
52.5°	11396.7	11226.9	10870.6	11090.7	11675.5	11818.0	13268.6	13090.4	11834.8	13331.4	14457.1
55°	11686.0	11646.2	11625.2	11815.9	12618.8	12721.5	14304.1	13895.3	12480.4	14165.7	15249.4
57.5°	12459.5	12386.1	12593.6	12723.6	13729.7	13886.9	15385.7	14735.9	13046.4	14828.1	15635.1
60°	13461.4	13421.6	13612.3	13847.1	14970.6	15209.6	16618.2	15452.7	13501.2	15161.4	15423.4
62.5°	14958.1	14953.9	14918.2	15421.3	16729.3	16949.4	18033.1	16150.8	13572.5	14911.9	14329.2
65°	17104.5	17029.0	16718.8	17268.0	18917.7	19175.5	19506.7	16540.6	13142.8	13631.2	12065.4
67.5°	19349.5	19345.3	19093.7	19806.4	22059.8	22326.0	21349.2	16454.7	11950.1	11042.5	8569.0
70°	21210.8	21120.7	21441.4	23340.5	26073.9	26382.0	22961.1	15442.3	9518.6	7292.5	5091.5
72.5°	21657.3	21661.5	22328.1	26065.5	29928.7	29976.9	23541.7	12516.1	6370.2	4022.5	2546.8
74°	20282.2	20317.9	21351.3	26201.7	30647.7	30429.7	22057.7	9837.2	4307.6	2626.5	1836.2
75°	18513.1	18288.8	19783.4	25294.1	29901.4	29666.7	20320.0	7894.1	3286.7	2098.2	1607.7
77.5°	9898.0	10126.5	12432.2	18875.7	24292.2	24021.8	13777.9	3785.6	1775.4	1461.0	1157.1
80°	3523.6	3886.2	5462.5	9877.0	15574.3	15658.2	6575.6	1735.6	1249.3	1077.4	817.5
82.5°	1438.0	1477.8	2345.6	4383.0	7908.7	7984.2	2685.2	1031.3	893.0	742.0	488.4
85°	561.8	578.5	1037.6	1970.4	3374.8	3594.9	928.6	545.0	549.2	425.5	249.4
87.5°	188.7	213.8	425.5	656.1	1146.6	1123.5	270.4	161.4	197.0	184.5	77.6
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°	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0	5777.0
2.5°	5795.8	5835.7	5862.9	5892.2	5919.5	5927.9	5921.6	5940.5	5942.6	5944.7	5946.7
5°	5829.4	5883.9	5936.3	5965.6	5978.2	5967.7	5932.1	5913.2	5896.4	5883.9	5888.1
7.5°	5875.5	5953.0	6001.2	6013.8	5980.3	5932.1	5844.0	5774.9	5730.8	5701.5	5699.4
10°	5946.7	6022.2	6062.0	6026.4	5934.2	5816.8	5678.4	5548.5	5450.0	5420.6	5418.5
12.5°	6036.9	6122.8	6120.7	6015.9	5854.5	5644.9	5420.6	5269.7	5135.5	5068.5	5095.7
15°	6154.3	6219.2	6158.5	5969.8	5714.1	5426.9	5150.2	4944.8	4793.9	4722.6	4726.8
17.5°	6290.5	6347.1	6185.7	5888.1	5517.0	5148.1	4827.4	4632.5	4513.0	4460.6	4456.4
20°	6460.3	6477.1	6185.7	5745.5	5263.4	4823.2	4517.2	4380.9	4313.9	4286.6	4295.0
22.5°	6642.7	6609.1	6152.2	5544.3	4930.1	4483.6	4278.2	4217.4	4183.9	4179.7	4183.9
25°	6848.1	6753.8	6083.0	5271.8	4582.2	4190.2	4070.7	4081.2	4087.5	4087.5	4102.1
27.5°	7099.6	6911.0	5967.7	4928.0	4175.5	3917.7	3884.1	3957.5	3991.1	3997.3	4007.8
30°	7430.8	7082.9	5777.0	4498.3	3829.6	3672.4	3731.1	3829.6	3867.4	3890.4	3886.2
32.5°	7824.9	7271.5	5519.1	4068.6	3550.9	3500.6	3571.8	3672.4	3714.4	3726.9	3710.2
35°	8288.1	7485.3	5179.6	3666.1	3307.7	3337.1	3420.9	3452.3	3490.1	3490.1	3498.5
37.5°	8787.0	7657.2	4764.5	3297.2	3119.1	3226.0	3286.7	3257.4	3240.6	3219.7	3230.2
40°	9294.3	7785.1	4225.8	2932.5	2930.4	3110.7	3127.4	3043.6	2976.5	2955.6	2945.1
42.5°	9736.6	7864.7	3739.5	2649.5	2752.2	2997.5	3010.1	2875.9	2769.0	2706.1	2685.2
45°	10258.5	7956.9	3263.7	2414.8	2586.6	2907.3	2938.8	2758.5	2601.3	2469.3	2435.7
47.5°	10973.3	8166.6	2888.5	2232.4	2467.2	2850.8	2894.8	2662.1	2454.6	2282.7	2255.4
50°	11780.3	8453.7	2597.1	2108.7	2374.9	2800.4	2854.9	2563.6	2318.3	2127.6	2106.6
52.5°	12520.2	8608.8	2345.6	1997.6	2284.8	2708.2	2802.5	2492.3	2184.2	1972.5	1953.6
55°	12924.8	8357.3	2098.2	1888.6	2161.1	2588.7	2729.2	2393.8	2054.2	1890.7	1863.5
57.5°	12979.3	7837.5	1873.9	1771.2	2031.2	2442.0	2592.9	2274.3	1970.4	1834.1	1811.1
60°	12558.0	7061.9	1700.0	1674.8	1899.1	2276.4	2439.9	2169.5	1884.4	1771.2	1748.2
62.5°	11509.9	6219.2	1578.4	1586.8	1764.9	2102.4	2326.7	2068.9	1802.7	1702.1	1681.1
65°	9707.2	5133.4	1461.0	1496.6	1645.5	1966.2	2224.0	1985.0	1720.9	1649.7	1630.8
67.5°	6743.3	3706.0	1364.6	1402.3	1532.3	1827.8	2104.5	1894.9	1628.7	1591.0	1561.6
70°	3733.2	2280.6	1251.4	1295.4	1414.9	1672.7	1970.4	1758.7	1494.5	1477.8	1435.9
72.5°	1962.0	1452.6	1123.5	1171.7	1255.6	1473.6	1764.9	1609.8	1362.5	1291.2	1236.7
74°	1532.3	1190.6	1037.6	1087.9	1144.5	1356.2	1643.4	1502.9	1268.2	1184.3	1142.4
75°	1335.2	1060.6	964.2	1029.2	1079.5	1276.5	1549.0	1427.5	1215.8	1136.1	1098.4
77.5°	943.3	794.4	788.1	865.7	893.0	1119.3	1396.0	1299.6	1083.7	999.9	964.2
80°	662.4	595.3	624.6	672.9	710.6	989.4	1295.4	1123.5	888.8	790.2	777.7
82.5°	431.8	389.9	446.5	490.5	503.1	729.5	1046.0	853.1	647.7	526.1	488.4
85°	199.1	194.9	255.7	249.4	247.3	356.3	620.5	498.9	373.1	278.8	262.0
87.5°	50.3	48.2	62.9	52.4	62.9	54.5	56.6	14.7	2.1	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)