

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: P457872

Luminaire Tested: **GALN-SA9B-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457872
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-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 43046 lumens
Efficiency: N/A
Efficacy: 118.3 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

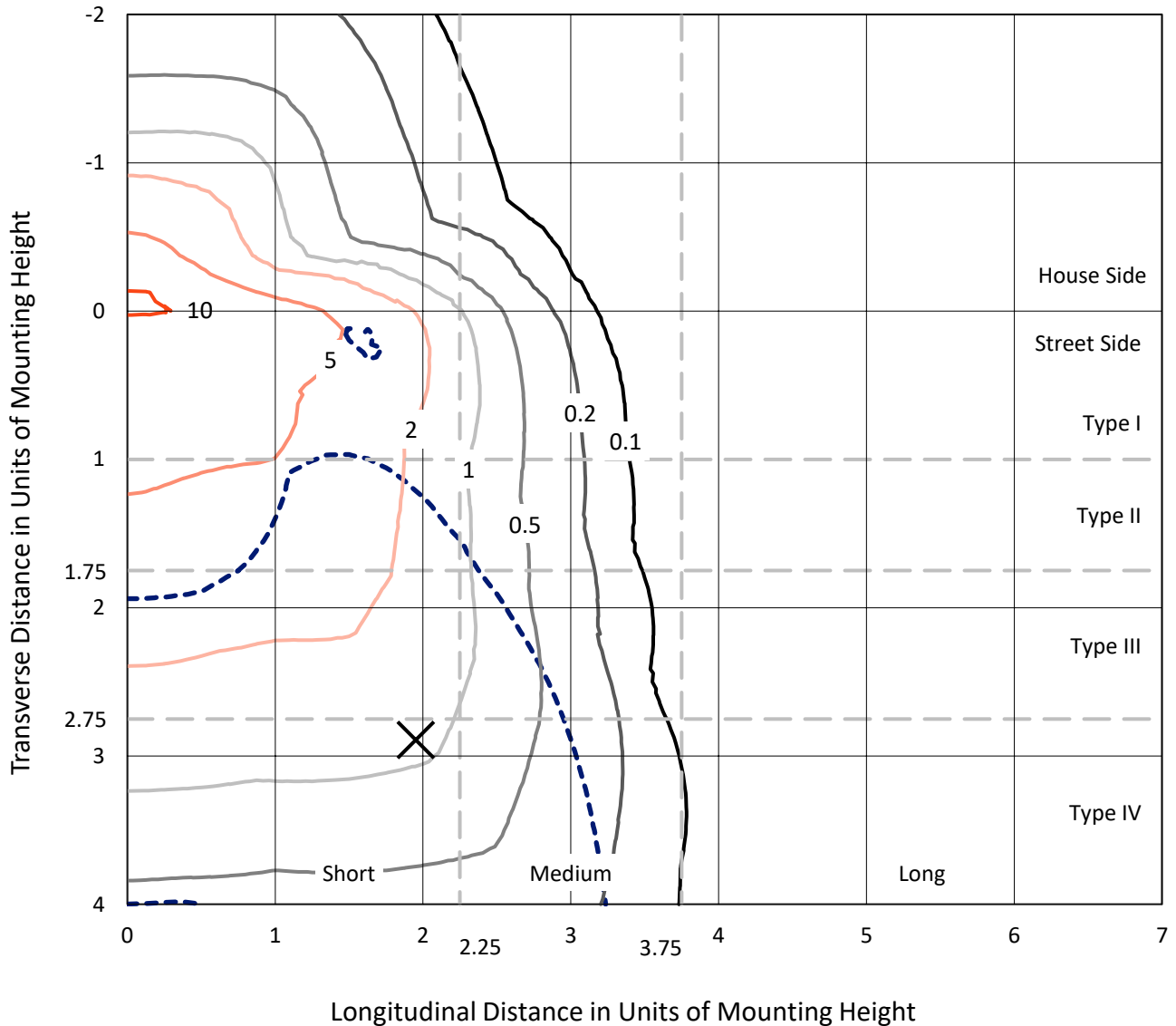
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

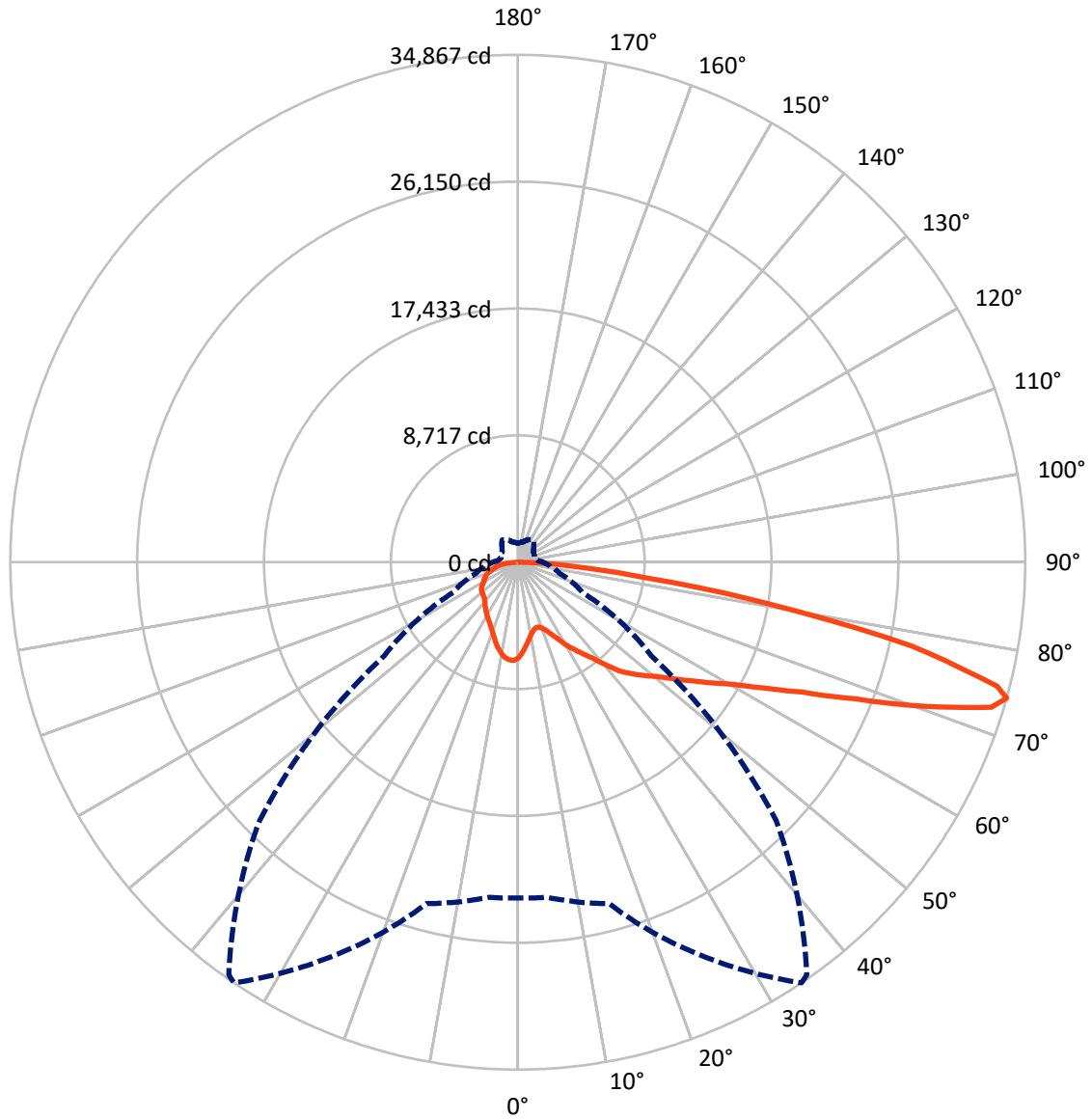
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	9160.5	0.0	9160.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	33885.5	0.0	33885.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	43046.0	0.0	43046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.7	1.4
10°-20°	1636.2	3.8
20°-30°	2697.7	6.3
30°-40°	4040.9	9.4
40°-50°	5874.3	13.6
50°-60°	8205.1	19.1
60°-70°	10272.3	23.9
70°-80°	8494.4	19.7
80°-90°	1227.4	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°	43046.0	100.0
0°-180°	43046.0	100.0

Coefficient of Utilization



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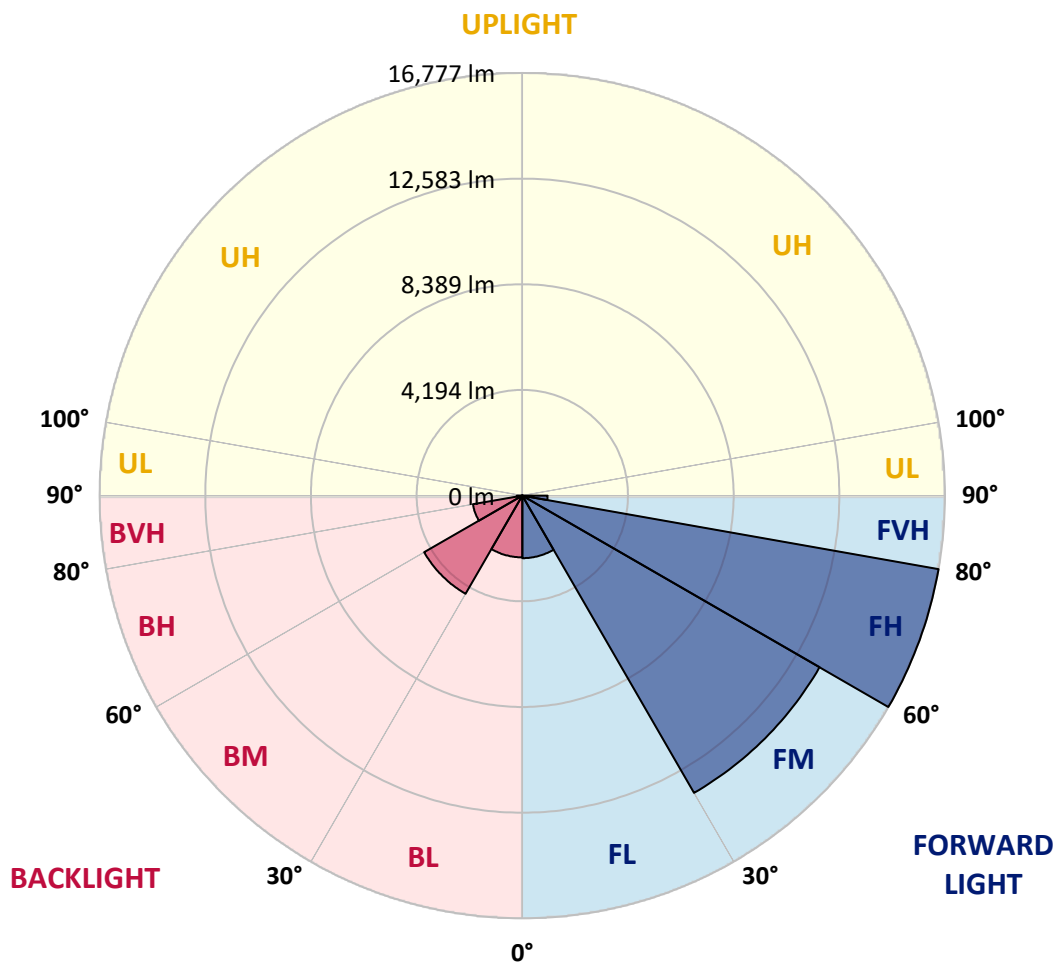
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2481.4	5.8			
FM	(30°-60°)	13621.5	31.6			
FH	(60°-80°)	16777.1	39.0			G5
FVH	(80°-90°)	1005.5	2.3			G5
BL	(0°-30°)	2450.3	5.7	B3/2500		
BM	(30°-60°)	4498.7	10.5	B3/5000		
BH	(60°-80°)	1989.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	221.9	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°	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3
2.5°	6073.9	6104.9	6121.6	6181.2	6195.5	6214.6	6264.6	6331.4	6417.3	6493.6	6560.3
5°	5568.3	5616.0	5644.6	5697.1	5799.6	5809.2	5942.7	6095.3	6269.4	6431.6	6565.1
7.5°	5089.0	5141.4	5165.3	5260.7	5396.6	5418.1	5613.6	5854.5	6145.4	6391.0	6596.1
10°	4728.9	4755.1	4807.6	4879.1	5041.3	5055.6	5310.8	5632.7	6009.5	6372.0	6648.6
12.5°	4533.3	4547.7	4559.6	4635.9	4795.7	4817.1	5084.2	5449.1	5902.2	6386.3	6734.4
15°	4562.0	4566.7	4514.3	4528.6	4657.3	4688.3	4953.1	5327.5	5835.4	6422.0	6863.2
17.5°	4802.8	4786.1	4657.3	4590.6	4681.2	4695.5	4926.8	5279.8	5804.4	6488.8	6996.8
20°	5182.0	5158.1	4936.4	4788.5	4841.0	4852.9	5012.7	5315.5	5835.4	6598.5	7204.2
22.5°	5654.2	5644.6	5308.4	5129.5	5127.1	5127.1	5210.6	5444.3	5928.4	6748.7	7421.2
25°	6314.7	6264.6	5825.9	5594.5	5530.2	5525.4	5515.8	5656.5	6047.6	6908.5	7678.8
27.5°	6992.0	6906.1	6515.0	6159.7	6021.4	6004.7	5942.7	5957.0	6200.3	7089.8	7972.1
30°	7600.1	7545.2	7178.0	6784.5	6620.0	6581.8	6410.1	6331.4	6455.4	7416.5	8439.5
32.5°	8065.1	8031.7	7745.6	7387.8	7144.6	7137.5	6887.1	6822.7	6853.7	7812.3	8973.7
35°	8441.9	8453.8	8308.3	7998.3	7719.3	7678.8	7511.9	7430.8	7340.2	8384.7	9646.2
37.5°	8957.0	8983.2	8973.7	8706.6	8365.6	8375.1	8337.0	8203.4	7962.6	9023.8	10392.6
40°	9524.5	9543.6	9541.2	9438.7	9259.8	9269.4	9255.1	9102.5	8742.4	9836.9	11222.5
42.5°	10309.1	10218.5	9982.4	10085.0	10189.9	10235.2	10333.0	10187.5	9693.9	10705.0	12002.3
45°	11186.7	11015.0	10480.8	10528.5	10917.2	11003.1	11542.0	11341.7	10726.4	11701.8	12920.4
47.5°	11739.9	11570.6	11119.9	11110.4	11625.5	11708.9	12662.8	12588.9	11666.0	12777.3	14041.2
50°	12233.6	12209.7	11701.8	11823.4	12326.6	12450.6	13883.8	13814.7	12603.2	14046.0	15262.2
52.5°	12965.7	12772.5	12367.1	12617.5	13282.9	13445.0	15095.2	14892.5	13464.1	15166.8	16447.4
55°	13294.8	13249.5	13225.6	13442.6	14356.0	14472.8	16273.3	15808.3	14198.6	16115.9	17348.8
57.5°	14174.7	14091.3	14327.4	14475.2	15619.9	15798.7	17503.8	16764.5	14842.5	16869.5	17787.6
60°	15314.6	15269.3	15486.3	15753.4	17031.6	17303.5	18906.0	17580.1	15359.9	17248.6	17546.7
62.5°	17017.3	17012.6	16972.0	17544.3	19032.4	19282.8	20515.7	18374.2	15441.0	16964.9	16301.9
65°	19459.3	19373.4	19020.5	19645.3	21522.0	21815.4	22192.2	18817.8	14952.2	15507.8	13726.4
67.5°	22013.3	22008.5	21722.4	22533.2	25096.7	25399.6	24288.3	18720.0	13595.3	12562.7	9748.7
70°	24130.9	24028.4	24393.2	26553.8	29663.5	30014.0	26122.2	17568.2	10829.0	8296.4	5792.5
72.5°	24638.9	24643.6	25402.0	29653.9	34049.0	34103.8	26782.7	14239.1	7247.1	4576.3	2897.4
74°	23074.5	23115.0	24290.7	29808.9	34866.9	34618.9	25094.3	11191.5	4900.6	2988.0	2089.0
75°	21061.8	20806.6	22506.9	28776.3	34018.0	33750.9	23117.4	8980.8	3739.2	2387.1	1829.1
77.5°	11260.6	11520.6	14143.7	21474.4	27636.5	27328.8	15674.7	4306.8	2019.9	1662.1	1316.4
80°	4008.7	4421.3	6214.6	11236.8	17718.4	17813.8	7480.8	1974.5	1421.3	1225.7	930.0
82.5°	1635.9	1681.2	2668.5	4986.4	8997.5	9083.4	3054.8	1173.3	1015.9	844.2	555.6
85°	639.1	658.2	1180.4	2241.6	3839.4	4089.8	1056.4	620.0	624.8	484.1	283.8
87.5°	214.6	243.2	484.1	746.4	1304.4	1278.2	307.6	183.6	224.2	209.9	88.2
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°	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3	6572.3
2.5°	6593.7	6639.0	6670.0	6703.4	6734.4	6744.0	6736.8	6758.3	6760.7	6763.1	6765.4
5°	6631.9	6693.9	6753.5	6786.9	6801.2	6789.3	6748.7	6727.3	6708.2	6693.9	6698.7
7.5°	6684.4	6772.6	6827.4	6841.7	6803.6	6748.7	6648.6	6569.9	6519.8	6486.4	6484.0
10°	6765.4	6851.3	6896.6	6856.1	6751.1	6617.6	6460.2	6312.3	6200.3	6166.9	6164.5
12.5°	6868.0	6965.8	6963.4	6844.1	6660.5	6422.0	6166.9	5995.2	5842.6	5766.2	5797.2
15°	7001.5	7075.4	7006.3	6791.7	6500.7	6174.0	5859.2	5625.5	5453.8	5372.8	5377.5
17.5°	7156.5	7220.9	7037.3	6698.7	6276.6	5856.9	5492.0	5270.2	5134.3	5074.7	5069.9
20°	7349.7	7368.8	7037.3	6536.5	5988.0	5487.2	5139.1	4984.1	4907.7	4876.7	4886.3
22.5°	7557.2	7519.0	6999.1	6307.6	5608.8	5100.9	4867.2	4798.0	4759.9	4755.1	4759.9
25°	7790.9	7683.5	6920.4	5997.6	5213.0	4767.0	4631.1	4643.0	4650.2	4650.2	4666.9
27.5°	8077.0	7862.4	6789.3	5606.5	4750.4	4457.0	4418.9	4502.3	4540.5	4547.7	4559.6
30°	8453.8	8057.9	6572.3	5117.6	4356.9	4178.0	4244.8	4356.9	4399.8	4426.0	4421.3
32.5°	8902.1	8272.6	6279.0	4628.7	4039.7	3982.5	4063.6	4178.0	4225.7	4240.0	4220.9
35°	9429.2	8515.8	5892.6	4170.9	3763.1	3796.5	3891.9	3927.6	3970.5	3970.5	3980.1
37.5°	9996.7	8711.4	5420.5	3751.2	3548.5	3670.1	3739.2	3705.8	3686.8	3662.9	3674.8
40°	10573.8	8856.8	4807.6	3336.2	3333.8	3538.9	3558.0	3462.6	3386.3	3362.4	3350.5
42.5°	11077.0	8947.4	4254.3	3014.3	3131.1	3410.1	3424.4	3271.8	3150.2	3078.7	3054.8
45°	11670.8	9052.4	3713.0	2747.2	2942.7	3307.6	3343.4	3138.3	2959.4	2809.2	2771.0
47.5°	12484.0	9290.8	3286.1	2539.7	2806.8	3243.2	3293.3	3028.6	2792.5	2597.0	2566.0
50°	13402.1	9617.6	2954.7	2399.0	2701.9	3186.0	3248.0	2916.5	2637.5	2420.5	2396.6
52.5°	14243.9	9794.0	2668.5	2272.6	2599.3	3081.1	3188.4	2835.4	2484.9	2244.0	2222.6
55°	14704.1	9507.9	2387.1	2148.6	2458.6	2945.1	3104.9	2723.3	2337.0	2151.0	2120.0
57.5°	14766.2	8916.4	2131.9	2015.1	2310.8	2778.2	2949.9	2587.4	2241.6	2086.6	2060.4
60°	14286.8	8034.1	1934.0	1905.4	2160.6	2589.8	2775.8	2468.2	2143.9	2015.1	1988.9
62.5°	13094.5	7075.4	1795.7	1805.2	2007.9	2391.9	2647.0	2353.7	2050.9	1936.4	1912.5
65°	11043.6	5840.2	1662.1	1702.7	1872.0	2236.9	2530.2	2258.3	1957.9	1876.8	1855.3
67.5°	7671.6	4216.2	1552.4	1595.4	1743.2	2079.5	2394.3	2155.8	1852.9	1810.0	1776.6
70°	4247.2	2594.6	1423.7	1473.8	1609.7	1903.0	2241.6	2000.8	1700.3	1681.2	1633.5
72.5°	2232.1	1652.6	1278.2	1333.1	1428.4	1676.5	2007.9	1831.5	1550.1	1469.0	1407.0
74°	1743.2	1354.5	1180.4	1237.7	1302.1	1542.9	1869.6	1709.8	1442.8	1347.4	1299.7
75°	1519.1	1206.7	1097.0	1170.9	1228.1	1452.3	1762.3	1624.0	1383.1	1292.5	1249.6
77.5°	1073.1	903.8	896.7	984.9	1015.9	1273.4	1588.2	1478.5	1232.9	1137.5	1097.0
80°	753.6	677.3	710.6	765.5	808.4	1125.6	1473.8	1278.2	1011.1	899.0	884.7
82.5°	491.3	443.6	507.9	558.0	572.3	829.9	1190.0	970.6	736.9	598.6	555.6
85°	226.5	221.8	290.9	283.8	281.4	405.4	705.9	567.6	424.5	317.2	298.1
87.5°	57.2	54.8	71.5	59.6	71.5	62.0	64.4	16.7	2.4	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)