

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: P459206

Luminaire Tested: **GALN-SA6D-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459206
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-SA6D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA 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: 42639 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

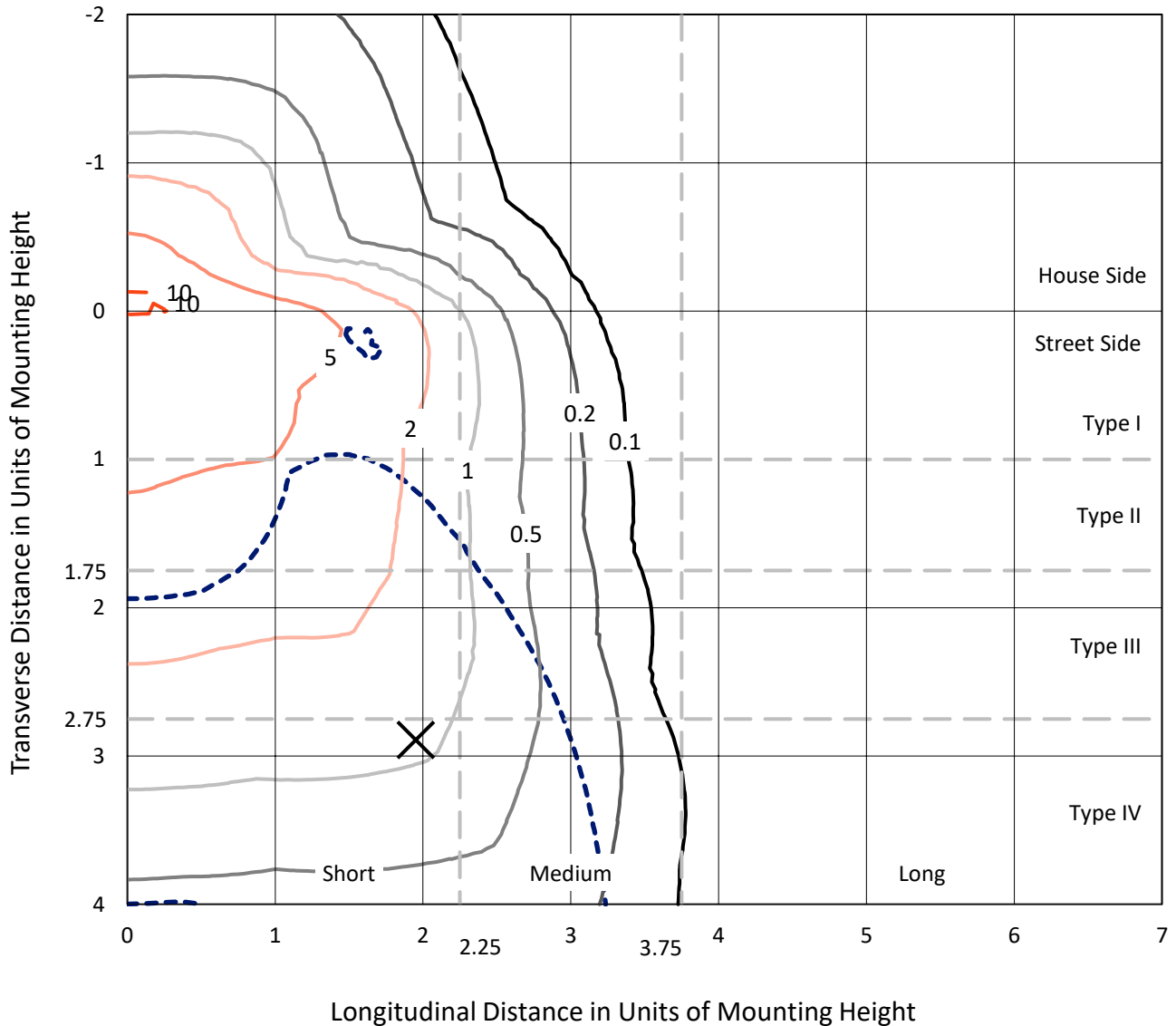
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

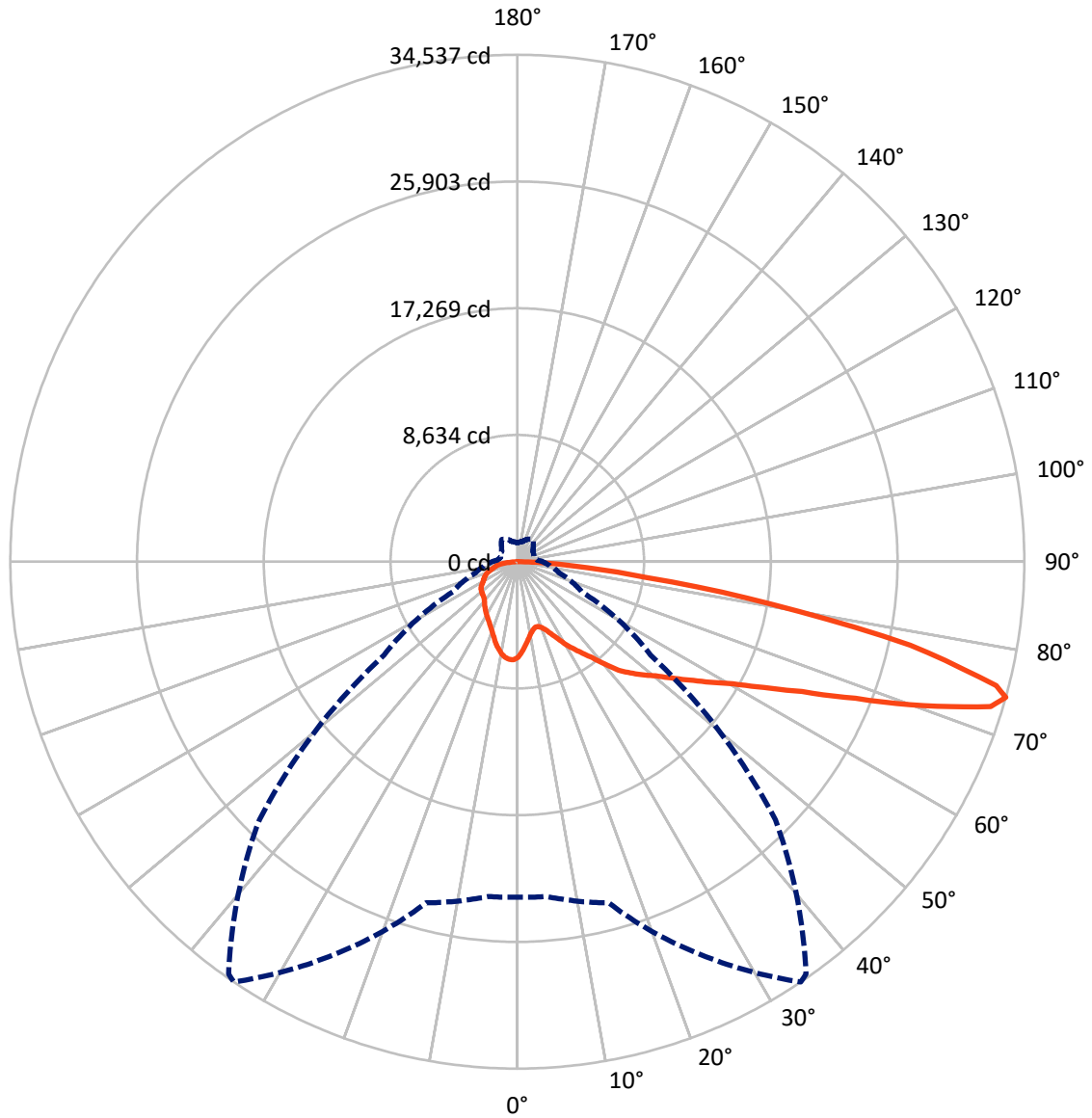
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	9073.9	0.0	9073.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	33565.1	0.0	33565.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	42639.0	0.0	42639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.1	1.4
10°-20°	1620.8	3.8
20°-30°	2672.2	6.3
30°-40°	4002.7	9.4
40°-50°	5818.8	13.6
50°-60°	8127.5	19.1
60°-70°	10175.2	23.9
70°-80°	8414.0	19.7
80°-90°	1215.8	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°	42639.0	100.0
0°-180°	42639.0	100.0

Coefficient of Utilization



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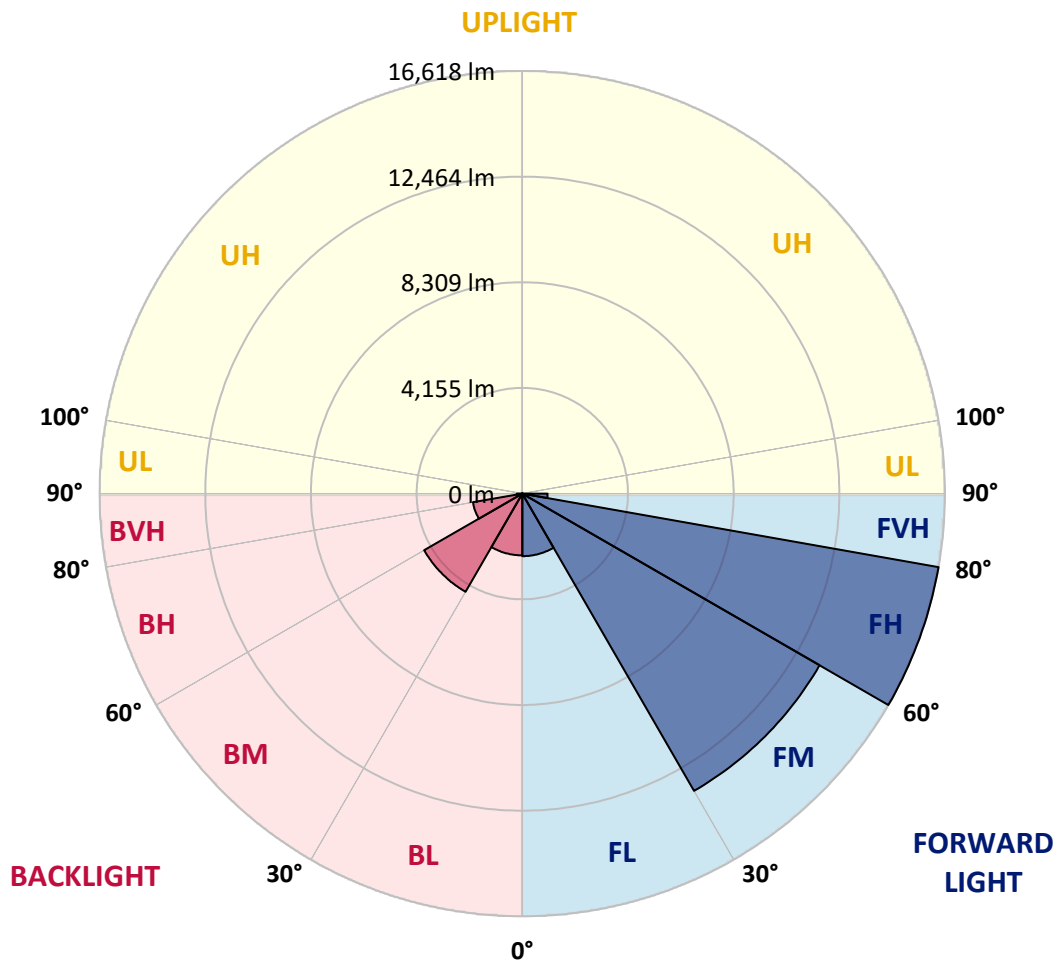
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2457.9	5.8			
FM	(30°-60°)	13492.7	31.6			
FH	(60°-80°)	16618.4	39.0			G5
FVH	(80°-90°)	996.0	2.3			G5
BL	(0°-30°)	2427.1	5.7	B3/2500		
BM	(30°-60°)	4456.2	10.5	B3/5000		
BH	(60°-80°)	1970.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	219.8	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°	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1
2.5°	6016.4	6047.1	6063.7	6122.7	6136.9	6155.8	6205.4	6271.6	6356.6	6432.2	6498.3
5°	5515.7	5562.9	5591.2	5643.2	5744.8	5754.2	5886.5	6037.7	6210.1	6370.8	6503.0
7.5°	5040.9	5092.8	5116.5	5210.9	5345.6	5366.8	5560.5	5799.1	6087.3	6330.6	6533.8
10°	4684.2	4710.2	4762.1	4833.0	4993.6	5007.8	5260.5	5579.4	5952.7	6311.7	6585.7
12.5°	4490.5	4504.7	4516.5	4592.1	4750.3	4771.6	5036.1	5397.6	5846.4	6325.9	6670.8
15°	4518.8	4523.5	4471.6	4485.8	4613.3	4644.0	4906.2	5277.1	5780.2	6361.3	6798.3
17.5°	4757.4	4740.9	4613.3	4547.2	4636.9	4651.1	4880.2	5229.8	5749.5	6427.5	6930.6
20°	5133.0	5109.4	4889.7	4743.2	4795.2	4807.0	4965.3	5265.3	5780.2	6536.1	7136.1
22.5°	5600.7	5591.2	5258.2	5081.0	5078.7	5078.7	5161.3	5392.8	5872.3	6684.9	7351.1
25°	6255.0	6205.4	5770.8	5541.6	5477.9	5473.1	5463.7	5603.1	5990.5	6843.2	7606.2
27.5°	6925.9	6840.8	6453.4	6101.5	5964.5	5947.9	5886.5	5900.7	6141.6	7022.7	7896.7
30°	7528.2	7473.9	7110.1	6720.4	6557.4	6519.6	6349.5	6271.6	6394.4	7346.3	8359.7
32.5°	7988.8	7955.8	7672.3	7318.0	7077.1	7070.0	6821.9	6758.2	6788.9	7738.5	8888.8
35°	8362.1	8373.9	8229.8	7922.7	7646.3	7606.2	7440.8	7360.5	7270.7	8305.4	9555.0
37.5°	8872.3	8898.3	8888.8	8624.3	8286.5	8295.9	8258.1	8125.9	7887.3	8938.4	10294.3
40°	9434.5	9453.4	9451.0	9349.5	9172.3	9181.7	9167.6	9016.4	8659.7	9743.9	11116.4
42.5°	10211.6	10121.9	9888.0	9989.6	10093.5	10138.4	10235.3	10091.2	9602.2	10603.8	11888.8
45°	11080.9	10910.8	10381.7	10429.0	10814.0	10899.0	11432.9	11234.5	10625.0	11591.2	12798.2
47.5°	11628.9	11461.2	11014.8	11005.3	11515.6	11598.2	12543.1	12469.9	11555.7	12656.5	13908.4
50°	12117.9	12094.3	11591.2	11711.6	12210.0	12332.9	13752.5	13684.0	12484.1	13913.2	15117.9
52.5°	12843.1	12651.8	12250.2	12498.2	13157.3	13317.9	14952.5	14751.7	13336.8	15023.4	16291.9
55°	13169.1	13124.2	13100.6	13315.5	14220.2	14336.0	16119.4	15658.8	14064.3	15963.5	17184.8
57.5°	14040.7	13958.0	14191.9	14338.4	15472.2	15649.4	17338.3	16606.0	14702.1	16710.0	17619.4
60°	15169.8	15125.0	15339.9	15604.5	16870.6	17139.9	18727.3	17413.9	15214.7	17085.6	17380.8
62.5°	16856.4	16851.7	16811.5	17378.5	18852.5	19100.5	20321.7	18200.5	15295.0	16804.5	16147.8
65°	19275.3	19190.2	18840.6	19459.5	21318.6	21609.1	21982.3	18639.9	14810.8	15361.2	13596.6
67.5°	21805.2	21800.4	21517.0	22320.1	24859.4	25159.4	24058.7	18543.0	13466.7	12443.9	9656.5
70°	23902.8	23801.2	24162.6	26302.7	29383.0	29730.2	25875.2	17402.1	10726.6	8218.0	5737.7
72.5°	24405.9	24410.6	25161.8	29373.5	33727.0	33781.3	26529.5	14104.5	7178.6	4533.0	2870.0
74°	22856.3	22896.5	24061.0	29527.1	34537.2	34291.6	24857.1	11085.6	4854.3	2959.8	2069.3
75°	20862.7	20609.9	22294.1	28504.3	33696.3	33431.7	22898.8	8895.9	3703.9	2364.5	1811.8
77.5°	11154.2	11411.6	14010.0	21271.3	27375.2	27070.4	15526.5	4266.1	2000.8	1646.4	1303.9
80°	3970.8	4379.5	6155.8	11130.5	17550.9	17645.4	7410.1	1955.9	1407.9	1214.2	921.2
82.5°	1620.4	1665.3	2643.3	4939.3	8912.5	8997.5	3025.9	1162.2	1006.3	836.2	550.4
85°	633.1	652.0	1169.3	2220.4	3803.1	4051.1	1046.4	614.2	618.9	479.5	281.1
87.5°	212.6	240.9	479.5	739.4	1292.1	1266.1	304.7	181.9	222.0	207.9	87.4
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°	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1	6510.1
2.5°	6531.4	6576.3	6607.0	6640.1	6670.8	6680.2	6673.1	6694.4	6696.7	6699.1	6701.5
5°	6569.2	6630.6	6689.7	6722.7	6736.9	6725.1	6684.9	6663.7	6644.8	6630.6	6635.3
7.5°	6621.2	6708.6	6762.9	6777.1	6739.3	6684.9	6585.7	6507.8	6458.2	6425.1	6422.7
10°	6701.5	6786.5	6831.4	6791.2	6687.3	6555.0	6399.1	6252.7	6141.6	6108.6	6106.2
12.5°	6803.0	6899.9	6897.5	6779.4	6597.5	6361.3	6108.6	5938.5	5787.3	5711.7	5742.4
15°	6935.3	7008.5	6940.0	6727.5	6439.3	6115.7	5803.8	5572.4	5402.3	5322.0	5326.7
17.5°	7088.9	7152.6	6970.8	6635.3	6217.2	5801.5	5440.1	5220.4	5085.7	5026.7	5022.0
20°	7280.2	7299.1	6970.8	6474.7	5931.4	5435.3	5090.5	4936.9	4861.3	4830.6	4840.1
22.5°	7485.7	7447.9	6933.0	6247.9	5555.8	5052.7	4821.2	4752.7	4714.9	4710.2	4714.9
25°	7717.2	7610.9	6855.0	5940.8	5163.7	4722.0	4587.3	4599.1	4606.2	4606.2	4622.8
27.5°	8000.7	7788.1	6725.1	5553.5	4705.4	4414.9	4377.1	4459.8	4497.6	4504.7	4516.5
30°	8373.9	7981.8	6510.1	5069.2	4315.7	4138.5	4204.7	4315.7	4358.2	4384.2	4379.5
32.5°	8818.0	8194.4	6219.6	4585.0	4001.5	3944.8	4025.1	4138.5	4185.8	4199.9	4181.0
35°	9340.0	8435.3	5836.9	4131.4	3727.5	3760.6	3855.1	3890.5	3933.0	3933.0	3942.5
37.5°	9902.2	8629.0	5369.2	3715.7	3514.9	3635.4	3703.9	3670.8	3651.9	3628.3	3640.1
40°	10473.8	8773.1	4762.1	3304.7	3302.3	3505.5	3524.4	3429.9	3354.3	3330.7	3318.8
42.5°	10972.3	8862.9	4214.1	2985.8	3101.5	3377.9	3392.1	3240.9	3120.4	3049.6	3025.9
45°	11560.4	8966.8	3677.9	2721.2	2914.9	3276.3	3311.8	3108.6	2931.4	2782.6	2744.8
47.5°	12365.9	9203.0	3255.1	2515.7	2780.3	3212.5	3262.2	3000.0	2766.1	2572.4	2541.7
50°	13275.4	9526.6	2926.7	2376.3	2676.3	3155.9	3217.3	2888.9	2612.6	2397.6	2374.0
52.5°	14109.2	9701.4	2643.3	2251.1	2574.8	3051.9	3158.2	2808.6	2461.4	2222.8	2201.5
55°	14565.1	9418.0	2364.5	2128.3	2435.4	2917.3	3075.5	2697.6	2314.9	2130.7	2100.0
57.5°	14626.5	8832.1	2111.8	1996.0	2288.9	2751.9	2922.0	2563.0	2220.4	2066.9	2040.9
60°	14151.7	7958.1	1915.7	1887.4	2140.1	2565.3	2749.6	2444.8	2123.6	1996.0	1970.0
62.5°	12970.7	7008.5	1778.7	1788.2	1988.9	2369.3	2622.0	2331.5	2031.5	1918.1	1894.5
65°	10939.2	5784.9	1646.4	1686.6	1854.3	2215.7	2506.3	2237.0	1939.3	1859.0	1837.8
67.5°	7599.1	4176.3	1537.8	1580.3	1726.7	2059.8	2371.6	2135.4	1835.4	1792.9	1759.8
70°	4207.0	2570.0	1410.2	1459.8	1594.5	1885.0	2220.4	1981.9	1684.2	1665.3	1618.1
72.5°	2211.0	1637.0	1266.1	1320.5	1414.9	1660.6	1988.9	1814.1	1535.4	1455.1	1393.7
74°	1726.7	1341.7	1169.3	1226.0	1289.7	1528.3	1851.9	1693.7	1429.1	1334.6	1287.4
75°	1504.7	1195.3	1086.6	1159.8	1216.5	1438.6	1745.6	1608.6	1370.1	1280.3	1237.8
77.5°	1063.0	895.3	888.2	975.6	1006.3	1261.4	1573.2	1464.5	1221.2	1126.8	1086.6
80°	746.4	670.9	703.9	758.3	800.8	1114.9	1459.8	1266.1	1001.6	890.5	876.4
82.5°	486.6	439.4	503.1	552.7	566.9	822.0	1178.7	961.4	729.9	592.9	550.4
85°	224.4	219.7	288.2	281.1	278.7	401.6	699.2	562.2	420.5	314.2	295.3
87.5°	56.7	54.3	70.9	59.1	70.9	61.4	63.8	16.5	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)