

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: P456592

Luminaire Tested: **GALN-SA7D-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456592
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-SA7D-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53433 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

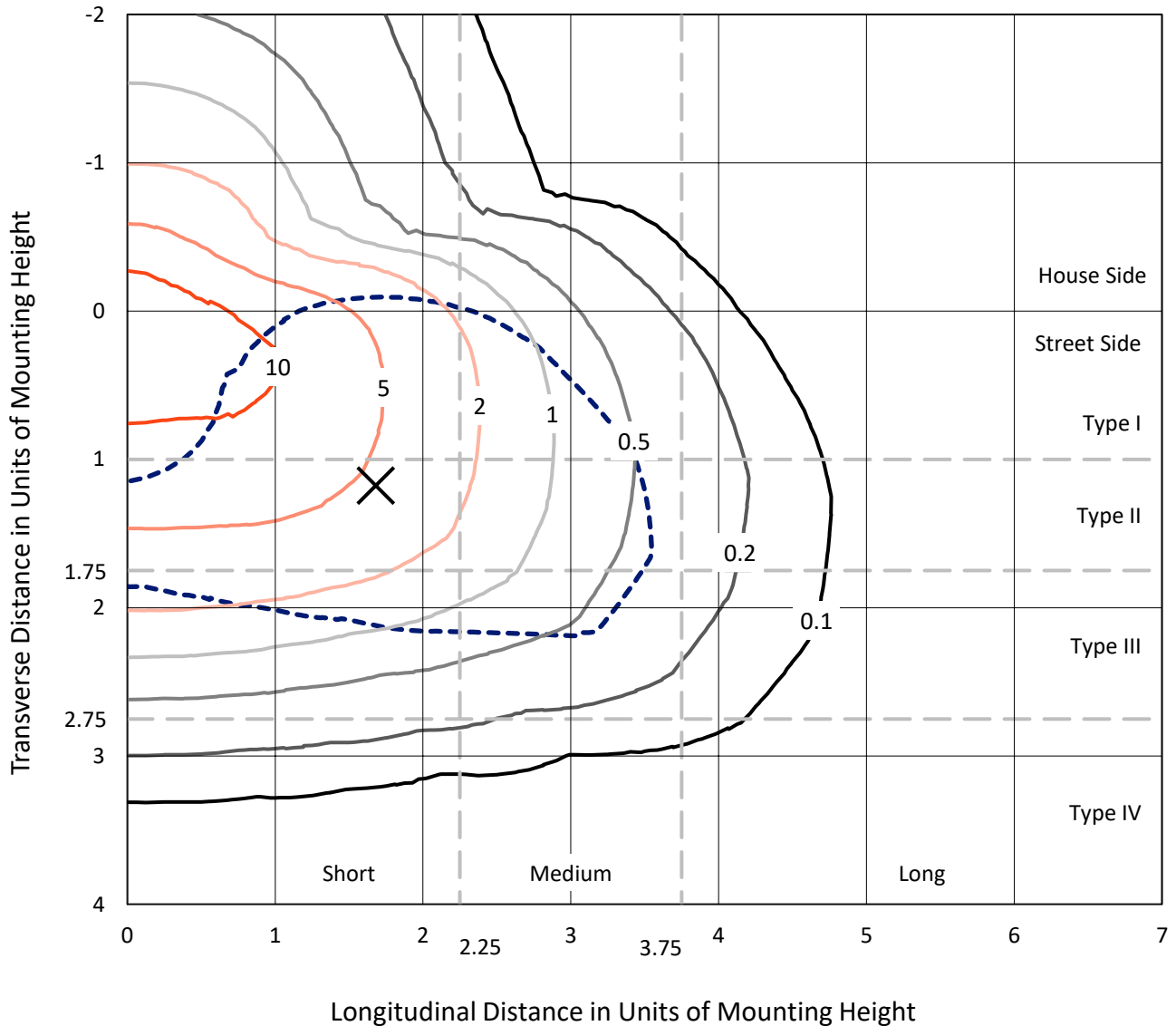
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

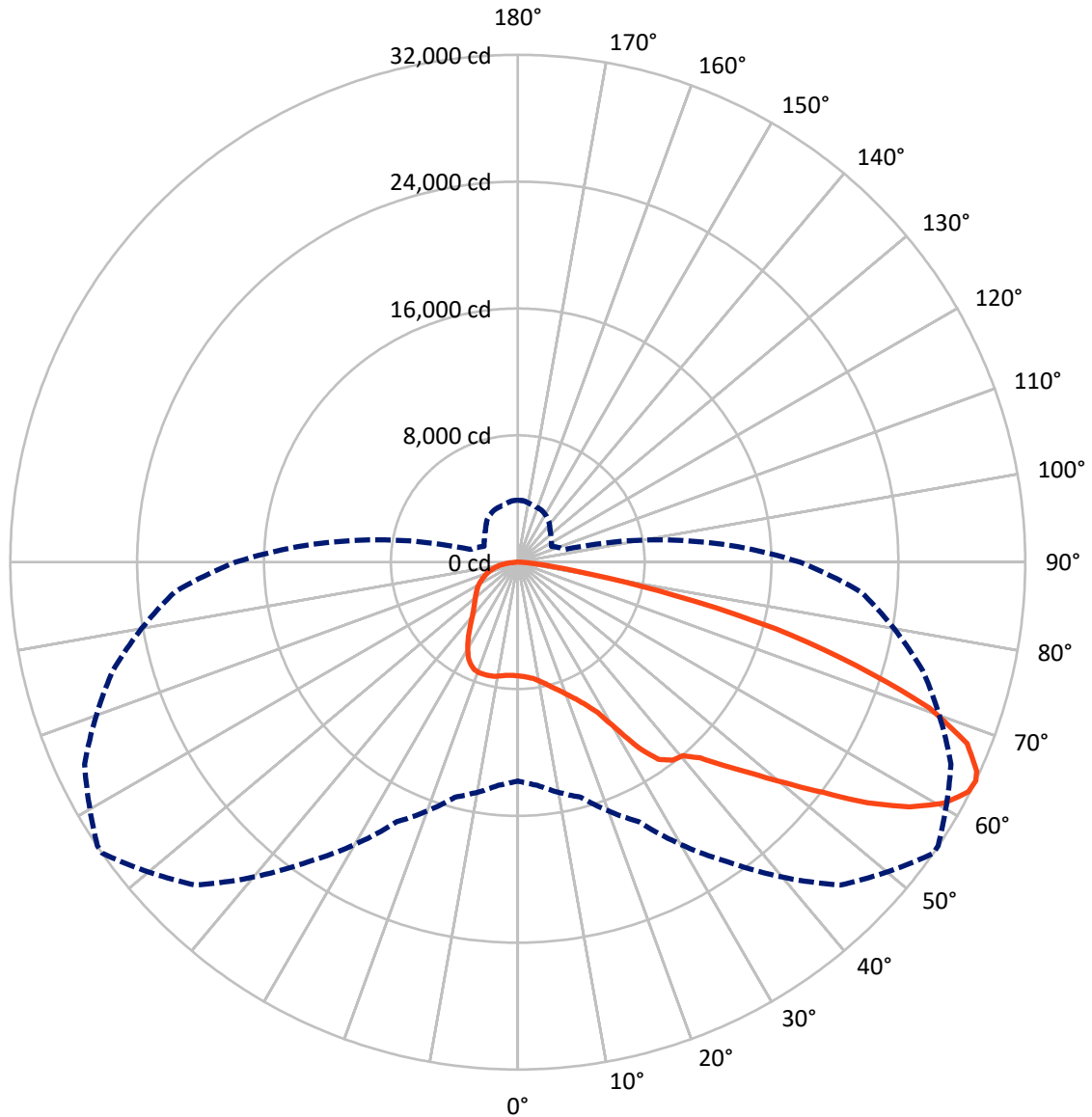
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	12979.9	0.0	12979.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	40453.1	0.0	40453.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	53433.0	0.0	53433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.4	1.3
10°-20°	2200.4	4.1
20°-30°	3917.3	7.3
30°-40°	6027.1	11.3
40°-50°	8544.0	16.0
50°-60°	12367.2	23.1
60°-70°	12798.7	24.0
70°-80°	5993.7	11.2
80°-90°	887.3	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°	53433.0	100.0
0°-180°	53433.0	100.0

Coefficient of Utilization



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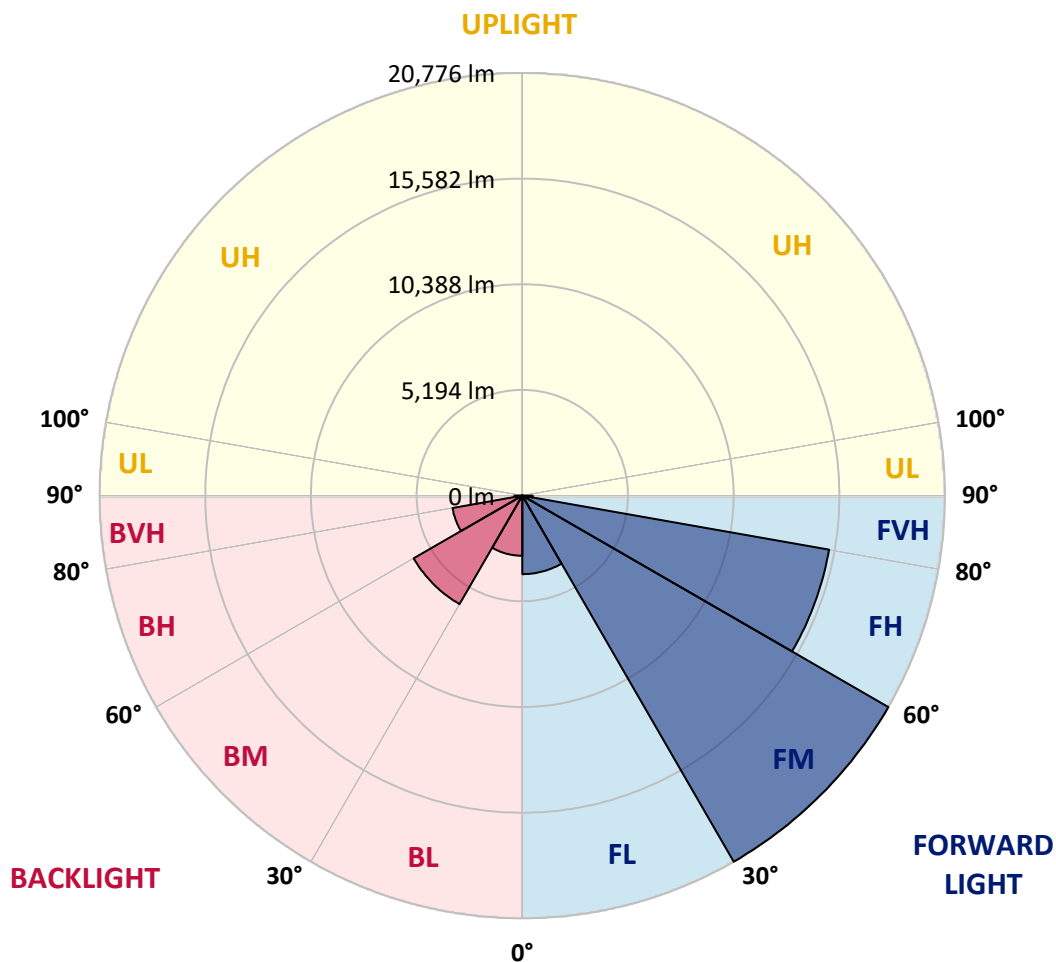
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3858.7	7.2			
FM	(30°-60°)	20776.2	38.9			
FH	(60°-80°)	15310.1	28.7			G5
FVH	(80°-90°)	508.0	1.0			G4/750
BL	(0°-30°)	2956.3	5.5	B4/5000		
BM	(30°-60°)	6162.1	11.5	B4/8500		
BH	(60°-80°)	3482.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	379.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1
2.5°	7249.5	7246.5	7255.5	7246.5	7252.5	7231.6	7222.7	7228.7	7219.7	7204.8	7178.0
5°	7338.9	7335.9	7338.9	7327.0	7332.9	7321.0	7300.1	7306.1	7291.2	7258.4	7219.7
7.5°	7490.8	7478.9	7478.9	7475.9	7464.0	7446.1	7431.2	7425.2	7410.3	7368.7	7309.1
10°	7687.3	7687.3	7690.3	7666.5	7681.4	7648.6	7633.7	7630.8	7580.1	7526.5	7443.1
12.5°	7946.5	7961.4	7952.4	7940.5	7934.6	7922.6	7872.0	7883.9	7827.3	7735.0	7633.7
15°	8268.1	8292.0	8277.1	8271.1	8256.2	8211.5	8190.7	8181.8	8107.3	7973.3	7839.2
17.5°	8694.1	8664.3	8652.4	8637.5	8574.9	8542.2	8506.4	8500.5	8434.9	8277.1	8068.6
20°	9066.4	9108.1	9084.2	9069.3	9006.8	8944.2	8917.4	8908.5	8851.9	8679.2	8345.6
22.5°	9510.1	9519.1	9528.0	9492.3	9462.5	9414.8	9367.2	9352.3	9331.4	9152.7	8744.7
25°	9983.7	10019.5	9989.7	9953.9	9918.2	9915.2	9959.9	9953.9	9945.0	9772.2	9274.9
27.5°	10755.1	10787.9	10796.8	10758.1	10621.1	10633.0	10734.3	10767.0	10904.1	10618.1	9956.9
30°	11190.0	11222.7	11297.2	11443.2	11660.6	11851.2	12095.4	12169.9	12300.9	11761.8	10767.0
32.5°	11458.0	11470.0	11604.0	11875.0	12527.3	13239.1	13903.3	13930.1	14013.5	13257.0	11508.7
35°	11881.0	11889.9	11997.1	12295.0	13060.4	14245.9	15273.4	15306.2	15237.7	13721.7	11854.2
37.5°	12402.2	12426.0	12494.5	12741.7	13656.1	15088.8	15842.3	15818.5	15210.9	14091.0	12464.8
40°	13161.7	13161.7	13081.3	13414.9	14284.6	15571.3	16041.9	16000.2	15839.3	15160.2	13394.0
42.5°	13831.9	13819.9	14010.6	14236.9	15070.9	16315.9	16878.8	16947.3	17212.4	16503.5	14451.4
45°	14704.5	14758.2	14865.4	15276.4	16408.2	17587.7	18314.4	18379.9	18755.2	18085.1	15687.4
47.5°	15586.2	15604.0	15940.6	16488.6	18064.2	19312.2	19907.9	20015.1	20357.6	19934.7	17018.8
50°	16211.6	16381.4	16920.5	17784.2	19770.9	21415.0	21879.6	22007.7	22612.3	21948.1	18570.5
52.5°	16872.8	17039.6	17697.9	19014.3	21730.7	23565.4	24137.2	24223.6	24852.1	23985.3	20158.1
55°	17438.7	17593.6	18341.2	20104.4	23291.4	25760.5	26797.0	26695.7	26996.5	25555.0	21382.2
57.5°	17531.1	17656.2	18597.4	20801.4	24464.9	27642.9	29129.1	29188.7	28840.2	26728.5	22391.9
60°	16816.3	17072.4	18153.6	20726.9	24992.1	28953.4	30868.5	30910.2	29921.4	27330.1	22794.0
62.5°	15550.4	15523.6	16831.1	19529.6	24253.4	29251.2	31893.1	31848.4	30344.3	27041.2	22403.8
64°	13802.1	14123.7	15344.9	18058.3	23062.0	28792.5	32000.3	31976.5	30141.8	26439.6	21739.6
65°	12735.8	12717.9	13924.2	16855.0	21876.6	28101.5	31809.7	31776.9	29718.8	25900.5	21224.3
67.5°	9194.4	9236.1	10427.5	13006.8	17784.2	25400.1	30567.7	30445.6	28050.9	24113.4	19264.5
70°	5569.7	5593.5	6528.7	8628.5	12765.6	20533.3	27553.5	27559.5	25498.4	21444.7	16396.3
72.5°	2933.8	2996.3	3371.6	4899.5	7752.9	14406.7	22353.2	22883.3	21891.5	18302.5	12953.2
75°	1632.2	1641.1	1906.2	2415.5	3955.4	8062.6	16801.4	16953.3	17331.5	14731.3	9578.7
77.5°	1245.0	1262.9	1346.3	1560.7	2153.4	3737.9	10168.4	10930.9	12214.6	10385.8	5465.4
80°	1009.7	1027.6	1099.0	1227.1	1432.6	1772.2	4723.8	5134.8	6537.7	4610.6	2132.6
82.5°	786.3	774.4	866.7	950.1	1042.5	1048.4	1939.0	2144.5	2662.7	1983.6	923.3
85°	583.8	583.8	658.2	640.4	673.1	613.6	854.8	944.2	1066.3	842.9	428.9
87.5°	232.3	256.1	431.9	387.2	300.8	241.3	315.7	333.6	369.3	330.6	178.7
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°	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1	7169.1
2.5°	7181.0	7189.9	7169.1	7154.2	7148.2	7139.3	7130.4	7133.4	7145.3	7157.2	7154.2
5°	7216.8	7219.7	7184.0	7166.1	7154.2	7142.3	7142.3	7151.2	7175.1	7192.9	7192.9
7.5°	7306.1	7306.1	7255.5	7222.7	7204.8	7184.0	7178.0	7181.0	7198.9	7222.7	7225.7
10°	7446.1	7434.2	7368.7	7318.0	7285.3	7234.6	7189.9	7166.1	7175.1	7189.9	7189.9
12.5°	7615.9	7583.1	7499.7	7431.2	7350.8	7255.5	7163.1	7115.5	7112.5	7127.4	7121.4
15°	7797.5	7761.8	7645.6	7520.6	7380.6	7240.6	7130.4	7061.9	7008.3	6993.4	7026.1
17.5°	8009.0	7934.6	7773.7	7601.0	7392.5	7210.8	7038.0	6898.1	6802.7	6775.9	6784.9
20°	8265.2	8166.9	7949.4	7678.4	7383.5	7103.6	6835.5	6647.9	6493.0	6445.3	6451.3
22.5°	8619.6	8449.8	8131.1	7717.1	7309.1	6901.0	6528.7	6284.5	6096.9	6022.4	6067.1
25°	9021.7	8837.0	8303.9	7708.2	7115.5	6576.4	6165.4	5846.7	5676.9	5566.7	5590.5
27.5°	9575.7	9248.0	8488.5	7627.8	6838.5	6180.3	5703.7	5402.9	5248.0	5191.4	5218.2
30°	10284.5	9781.2	8688.1	7410.3	6400.7	5679.9	5239.1	5042.5	4950.2	4878.7	4902.5
32.5°	10796.8	10156.5	8732.8	7044.0	5927.1	5224.2	4923.4	4777.4	4676.1	4607.6	4622.5
35°	11163.2	10475.2	8711.9	6594.3	5432.7	4848.9	4673.2	4554.0	4390.2	4241.3	4214.5
37.5°	11654.6	10874.3	8560.0	6102.8	4944.2	4595.7	4470.6	4250.2	4014.9	3815.4	3806.4
40°	12408.2	11341.9	8235.4	5525.0	4527.2	4408.1	4256.2	3970.3	3717.1	3556.3	3544.3
42.5°	13185.5	11773.8	7794.6	4917.4	4184.7	4211.5	4026.8	3743.9	3589.0	3484.8	3472.9
45°	14135.7	12241.4	7318.0	4390.2	3931.5	4026.8	3827.3	3663.5	3571.1	3502.6	3484.8
47.5°	15163.2	12720.9	6781.9	3916.6	3717.1	3857.1	3743.9	3669.4	3618.8	3571.1	3550.3
50°	16271.2	13257.0	6278.5	3535.4	3523.5	3681.3	3735.0	3708.2	3678.4	3663.5	3645.6
52.5°	17486.4	13805.1	5855.6	3267.3	3353.7	3556.3	3737.9	3758.8	3758.8	3749.9	3737.9
55°	18308.4	14186.3	5426.7	3049.9	3181.0	3455.0	3732.0	3812.4	3842.2	3830.3	3818.4
57.5°	18916.0	14394.8	4887.6	2862.3	3035.0	3356.7	3699.2	3818.4	3848.1	3863.0	3857.1
60°	19041.1	14201.2	4181.7	2665.7	2877.2	3213.7	3580.1	3729.0	3767.7	3860.1	3869.0
62.5°	18478.2	13605.5	3478.8	2472.1	2683.6	2996.3	3419.2	3627.7	3705.2	3848.1	3863.0
64°	17787.2	12938.3	3088.6	2350.0	2558.5	2874.2	3338.8	3600.9	3702.2	3892.8	3904.7
65°	17280.9	12452.8	2844.4	2272.5	2478.1	2793.8	3294.2	3609.9	3729.0	3961.3	3979.2
67.5°	15416.4	10781.9	2353.0	2090.9	2287.4	2656.8	3303.1	3684.3	3723.0	3988.1	3985.1
70°	12756.6	8583.9	1971.7	1924.1	2102.8	2546.6	3267.3	3565.2	3568.2	3743.9	3702.2
72.5°	9551.8	6344.1	1709.6	1751.3	1897.3	2284.5	3085.7	3404.4	3353.7	3377.5	3335.8
75°	6561.5	4196.6	1471.3	1566.7	1682.8	2019.4	2829.5	3091.6	3011.2	2981.4	2951.6
77.5°	3502.6	2320.2	1224.1	1385.0	1462.4	1745.4	2469.1	2722.3	2638.9	2522.7	2484.0
80°	1417.7	1093.1	985.9	1146.7	1191.4	1405.8	2055.1	2213.0	2150.4	1947.9	1882.4
82.5°	711.8	655.3	774.4	902.5	905.4	1003.7	1527.9	1676.9	1536.9	1289.7	1233.1
85°	372.3	384.2	533.1	634.4	559.9	542.1	917.4	1015.6	932.3	810.1	729.7
87.5°	134.0	154.9	280.0	277.0	196.6	104.2	202.5	98.3	53.6	32.8	41.7
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)