

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: P651524

Luminaire Tested: **GALN-SA7D-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38009.8 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

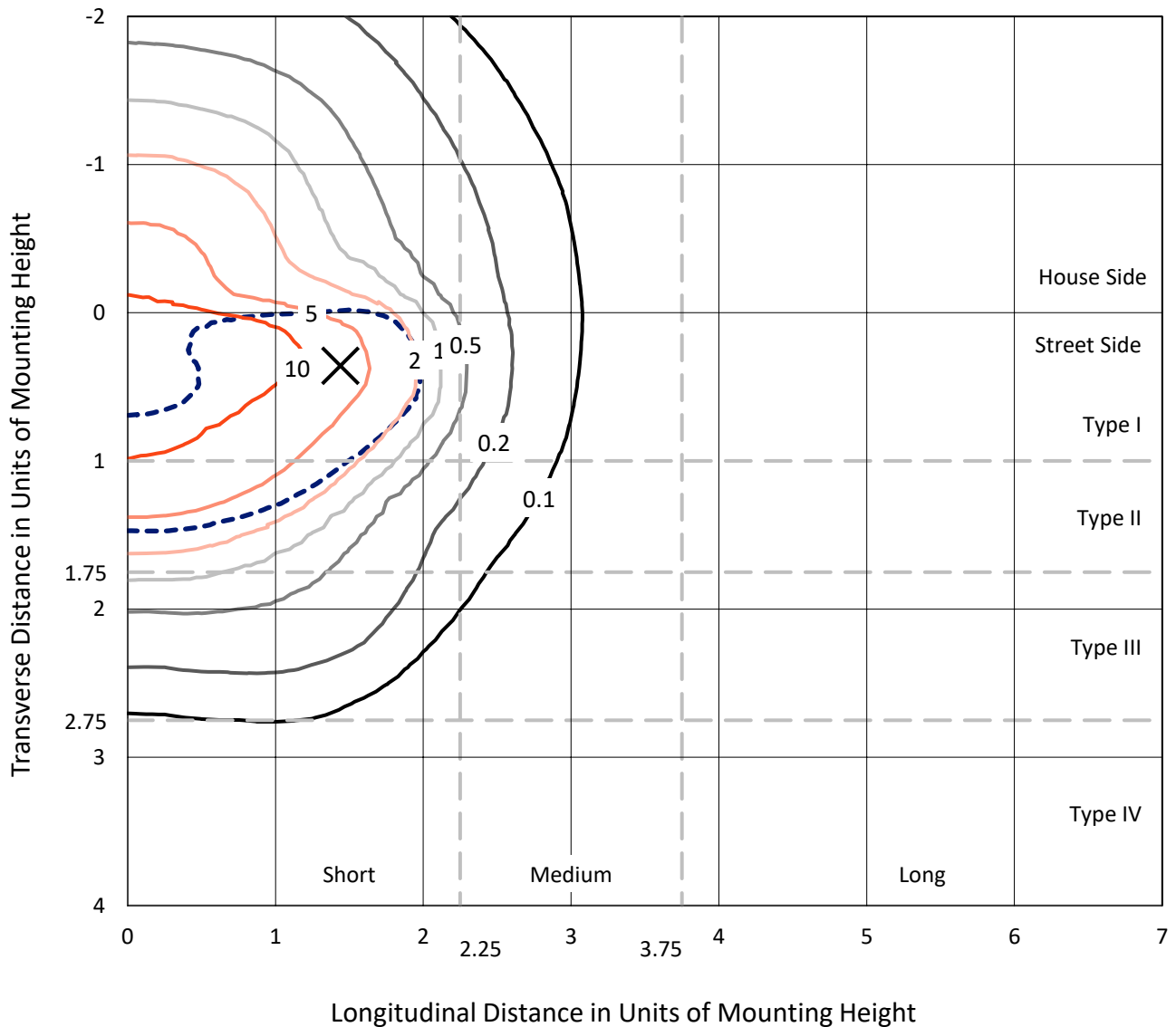
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

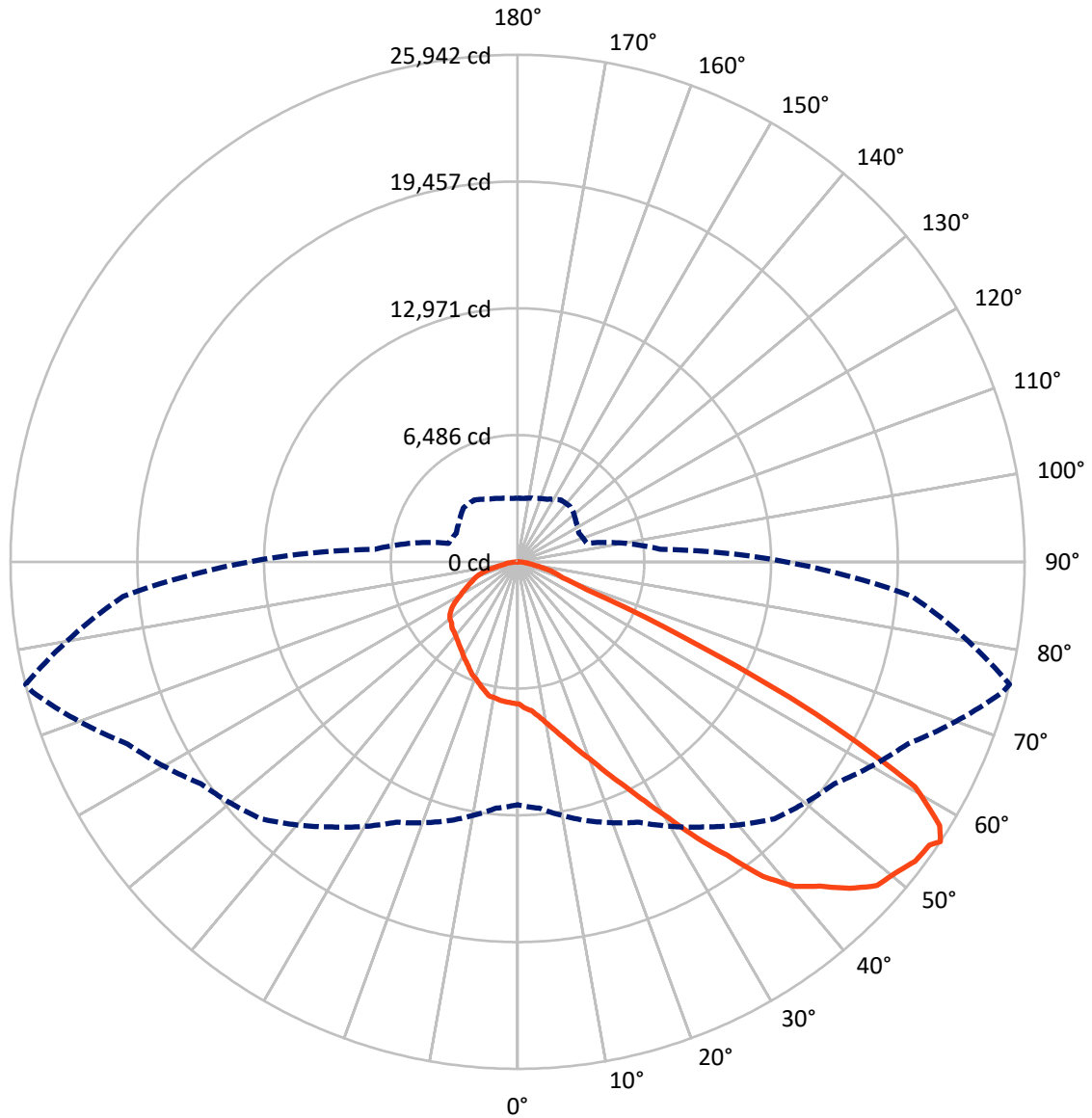
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10219.7	0.0	10219.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	27790.1	0.0	27790.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	38009.8	0.0	38009.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.2	1.9
10°-20°	2265.6	6.0
20°-30°	3962.3	10.4
30°-40°	6203.8	16.3
40°-50°	9024.7	23.7
50°-60°	9918.7	26.1
60°-70°	4427.3	11.6
70°-80°	1278.8	3.4
80°-90°	207.4	0.5
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°	38009.8	100.0
0°-180°	38009.8	100.0

Coefficient of Utilization

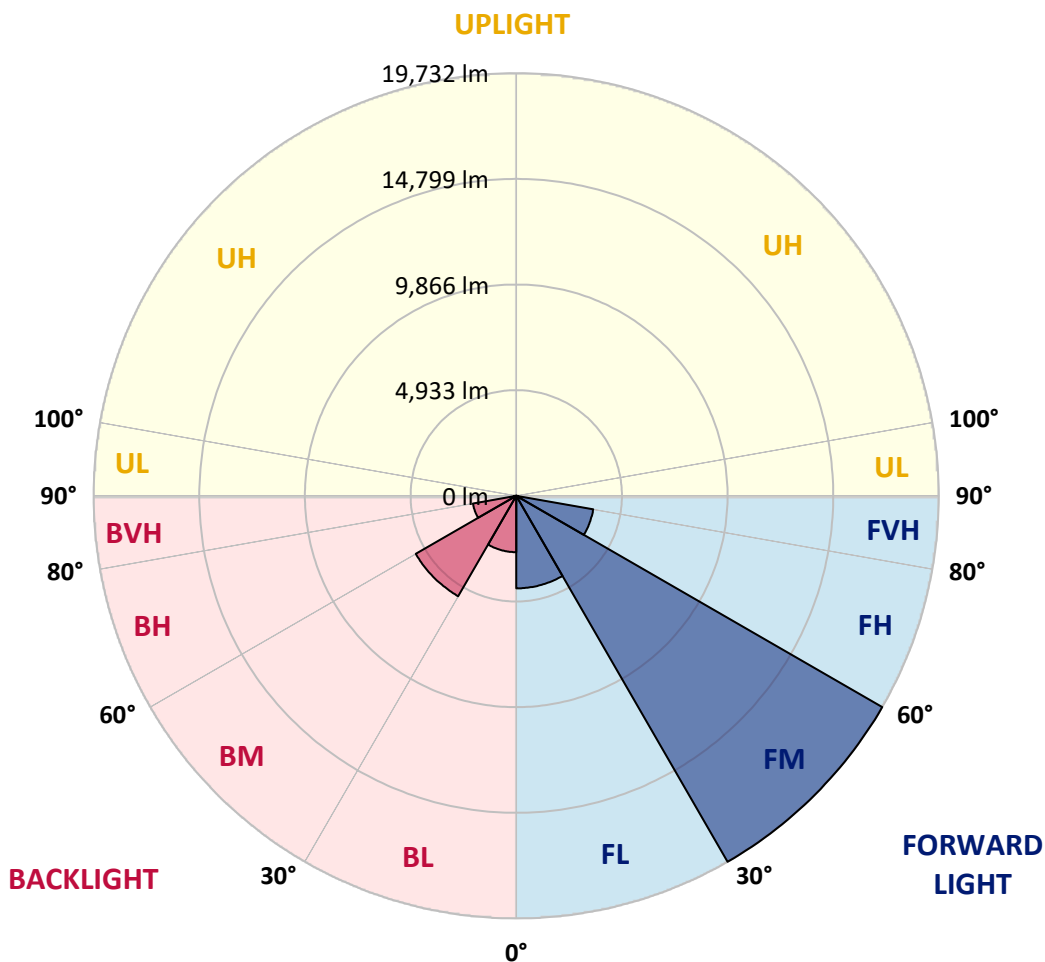


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4319.4	11.4			
FM (30°-60°)	19731.6	51.9			
FH (60°-80°)	3649.8	9.6			G2/5000
FVH (80°-90°)	89.3	0.2			G1/100
BL (0°-30°)	2629.7	6.9	B4/5000		
BM (30°-60°)	5415.6	14.2	B4/8500		
BH (60°-80°)	2056.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	118.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7
2.5°	8011.8	7883.7	7873.9	7839.3	7859.1	7770.3	7676.7	7553.5	7425.4	7504.2	7317.0
5°	8573.5	8401.1	8470.0	8351.8	8366.5	8248.3	8056.1	7913.2	7755.5	7661.9	7528.9
7.5°	8770.6	8785.3	8834.6	8814.9	8716.4	8716.4	8588.3	8337.0	8061.1	8006.8	7785.1
10°	9036.6	9041.6	8987.4	9002.1	9140.2	9076.1	8962.8	8854.4	8499.6	8435.6	8041.4
12.5°	9130.3	9041.6	9130.3	9209.1	9371.7	9460.4	9435.8	9357.0	8977.5	8933.2	8356.7
15°	9145.0	9090.9	9164.8	9342.2	9485.1	9859.5	10046.8	9992.6	9490.0	9494.9	8711.5
17.5°	9076.1	9150.0	9179.6	9332.3	9662.4	10012.3	10554.3	10628.2	10214.3	10150.2	9159.8
20°	9169.7	9115.5	9155.0	9292.9	9731.4	10278.4	10987.9	11475.7	10894.2	10849.9	9623.0
22.5°	9529.4	9455.4	9445.6	9534.3	9849.7	10416.3	11446.1	12323.2	11722.0	11746.7	10199.5
25°	9810.3	9849.7	9815.1	9810.3	10007.3	10623.3	12052.2	13333.3	12845.4	12702.5	10879.5
27.5°	10293.2	10386.8	10317.7	10411.4	10367.0	10933.7	12485.7	14451.7	14057.6	13865.4	11495.4
30°	10963.3	11012.5	10948.5	10948.5	10815.4	11367.3	12880.0	15619.6	15456.9	15195.8	12219.7
32.5°	11845.2	11919.2	11791.0	11717.1	11697.4	12012.8	13589.5	16772.6	17048.4	16826.7	13180.5
35°	13013.0	12968.6	12815.9	12747.0	12480.9	13003.1	14643.9	18098.0	18822.3	18428.1	14343.3
37.5°	14042.8	13973.8	13964.0	13579.6	13643.7	14072.4	15540.7	19103.1	20541.9	20428.6	15570.3
40°	15003.6	15067.7	15171.1	14954.3	14855.8	15328.8	16585.3	19871.8	21877.2	21832.9	16516.3
42.5°	16033.4	15974.3	16156.6	15974.3	15826.5	16496.6	17718.6	20403.9	23049.9	22685.3	17506.7
45°	17526.4	17339.1	17403.2	17418.0	17309.6	17556.0	18186.6	20788.3	23872.8	23833.4	18231.0
47.5°	18773.0	18777.9	18669.5	18585.8	18255.7	18502.0	18709.0	21029.7	24818.8	24754.8	18511.8
50°	19236.2	19172.1	19487.5	19669.8	19689.5	19186.9	19117.9	21162.8	25316.5	25035.6	18792.7
52.5°	17570.8	17629.9	18127.5	19211.6	19837.3	19891.5	19595.9	21438.7	25518.5	25459.3	19019.4
55°	14141.3	14427.1	15245.1	16496.6	17979.7	19610.7	20113.3	21724.5	25626.9	25577.6	20024.5
56°	12431.6	12653.3	13717.6	14698.2	16560.6	18590.7	19788.1	22030.0	25710.6	25942.2	20261.0
57.5°	10007.3	10263.6	11027.3	12140.8	14338.5	16649.4	18891.3	21655.5	25385.4	25474.1	20433.5
60°	6257.6	6282.3	7198.8	7933.0	9480.1	11736.8	14417.3	18842.0	23493.3	23365.3	18354.2
62.5°	4104.4	4109.4	4942.1	5543.2	6247.8	6765.2	8484.8	12495.7	17334.3	17107.6	13067.2
65°	2882.4	2946.5	3592.0	4395.2	4680.9	4410.0	4355.7	6587.8	9682.2	9357.0	7021.4
67.5°	2108.9	2113.9	2685.4	3547.7	3961.5	3355.5	2724.8	3217.5	3833.4	3823.6	3252.0
70°	1394.5	1453.6	1892.1	2650.9	3123.9	2695.2	2227.1	2301.1	2439.0	2439.0	2419.3
72.5°	813.0	867.2	1157.9	1680.2	1754.2	1685.1	1764.0	1970.9	2059.6	2054.6	2030.0
75°	463.1	487.8	551.9	699.7	872.1	1029.8	1295.9	1492.9	1581.7	1635.8	1571.8
77.5°	271.0	285.8	325.2	399.1	453.3	556.8	704.6	842.6	960.8	946.0	955.9
80°	142.9	142.9	182.3	236.5	315.4	394.2	468.1	546.9	611.0	625.8	640.6
82.5°	83.8	88.7	118.2	172.5	226.6	280.9	359.7	413.9	473.1	477.9	487.8
85°	44.3	49.3	73.9	113.4	152.7	172.5	177.4	167.5	182.3	172.5	197.1
87.5°	14.8	14.8	24.6	19.7	19.7	24.6	29.6	29.6	39.4	39.4	39.4
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°	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7	7272.7
2.5°	7312.1	7312.1	7228.3	7070.7	7046.1	6982.0	6922.9	6917.9	6873.6	6834.1	6814.5
5°	7450.1	7297.4	7174.2	7031.3	6863.7	6784.9	6696.2	6597.6	6558.2	6597.6	6592.8
7.5°	7607.8	7479.6	7110.1	6844.1	6651.9	6573.0	6474.4	6371.0	6380.8	6380.8	6311.9
10°	7760.5	7588.0	6996.8	6656.8	6376.0	6316.8	6262.6	6302.0	6351.3	6361.2	6316.8
12.5°	8016.7	7627.4	6942.5	6469.6	6292.2	6164.0	6198.5	6306.9	6410.4	6380.8	6415.3
15°	8208.9	7661.9	6696.2	6277.4	6055.6	6114.7	6237.9	6311.9	6484.4	6464.6	6499.1
17.5°	8396.1	7681.7	6454.8	6021.1	5927.5	6090.1	6183.8	6395.6	6449.8	6568.1	6612.4
20°	8780.5	7721.1	6208.4	5863.5	5833.9	6021.1	6183.8	6282.3	6400.6	6504.0	6504.0
22.5°	8977.5	7701.4	6045.8	5656.6	5750.2	5868.4	6016.3	6183.8	6183.8	6282.3	6287.2
25°	9223.9	7622.6	5789.6	5558.0	5627.0	5740.3	5907.9	5848.7	5912.7	5912.7	5991.6
27.5°	9504.7	7455.0	5567.8	5380.6	5518.6	5641.8	5666.4	5627.0	5553.0	5543.2	5513.7
30°	9731.4	7248.1	5405.3	5321.5	5434.8	5503.8	5425.0	5341.2	5213.1	5203.3	5134.2
32.5°	10041.9	6991.8	5203.3	5173.7	5301.7	5306.7	5282.1	5154.0	4966.7	4887.9	4809.0
35°	10564.1	6844.1	5050.5	5094.9	5134.2	5119.5	5075.1	4937.2	4749.9	4715.4	4685.9
37.5°	10948.5	6735.7	4892.8	4947.0	4981.5	5001.2	4868.2	4715.4	4720.4	4651.4	4631.6
40°	11382.1	6666.6	4764.7	4789.3	4794.3	4858.3	4695.7	4621.8	4656.3	4612.0	4641.5
42.5°	11938.8	6686.4	4631.6	4612.0	4705.6	4680.9	4602.1	4503.6	4523.2	4390.2	4410.0
45°	12234.4	6819.4	4552.8	4464.1	4567.6	4562.7	4459.2	4365.5	4247.3	3991.1	4001.0
47.5°	12431.6	6853.9	4365.5	4306.4	4414.8	4478.9	4360.7	4143.9	3976.3	3794.0	3749.7
50°	12633.6	6917.9	4276.9	4153.7	4198.0	4350.8	4203.0	3996.0	3833.4	3670.8	3695.4
52.5°	12811.0	7041.1	4104.4	3922.2	4001.0	4168.5	4089.7	3838.4	3661.0	3527.9	3488.6
55°	13599.3	7317.0	3813.8	3577.2	3764.5	3976.3	3932.0	3626.5	3434.3	3365.3	3355.5
56°	13722.5	7326.9	3661.0	3458.9	3631.4	3912.2	3858.1	3532.9	3360.4	3252.0	3256.9
57.5°	13742.3	7208.6	3444.1	3350.5	3498.4	3818.6	3749.7	3458.9	3222.5	3123.9	3094.4
60°	12091.6	5627.0	3173.2	3114.1	3286.5	3532.9	3508.2	3256.9	2990.8	2877.6	2931.7
62.5°	8243.4	4124.2	2961.3	2951.5	3040.1	3281.6	3217.5	2990.8	2769.2	2695.2	2660.8
65°	4799.2	3128.9	2754.4	2714.9	2788.8	2916.9	2961.3	2724.8	2493.2	2443.9	2429.1
67.5°	2833.2	2586.8	2488.3	2424.3	2399.6	2478.4	2512.9	2375.0	2143.4	2074.4	2133.5
70°	2370.0	2301.1	2305.9	2197.6	2138.4	2084.3	2054.6	1931.5	1739.4	1650.6	1626.0
72.5°	2044.8	2015.3	1995.5	1897.0	1842.8	1719.6	1591.5	1468.3	1325.4	1251.5	1256.5
75°	1562.0	1552.1	1562.0	1512.7	1419.1	1320.5	1202.3	1044.6	936.2	842.6	862.3
77.5°	931.2	960.8	975.6	955.9	916.4	827.8	753.9	650.4	546.9	473.1	463.1
80°	640.6	665.1	689.8	665.1	625.8	561.7	482.9	404.0	330.1	290.7	280.9
82.5°	487.8	512.4	527.2	502.6	453.3	384.3	330.1	275.9	216.8	177.4	167.5
85°	177.4	202.0	197.1	236.5	256.3	246.3	211.8	162.6	123.2	88.7	83.8
87.5°	49.3	44.3	49.3	49.3	49.3	44.3	39.4	39.4	39.4	24.6	19.7
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)