

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: P457458

Luminaire Tested: **GALN-SA8D-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62824 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

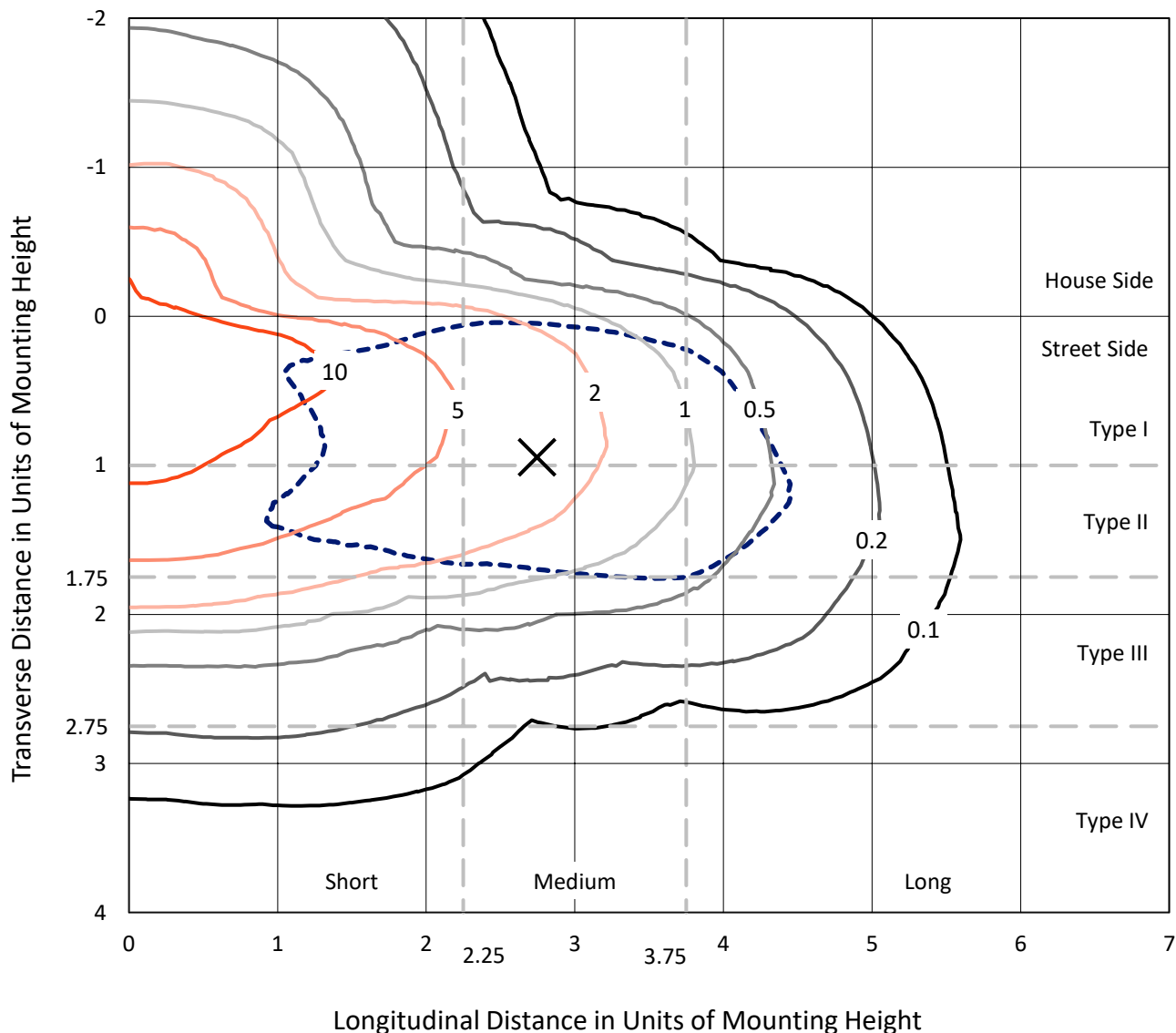
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

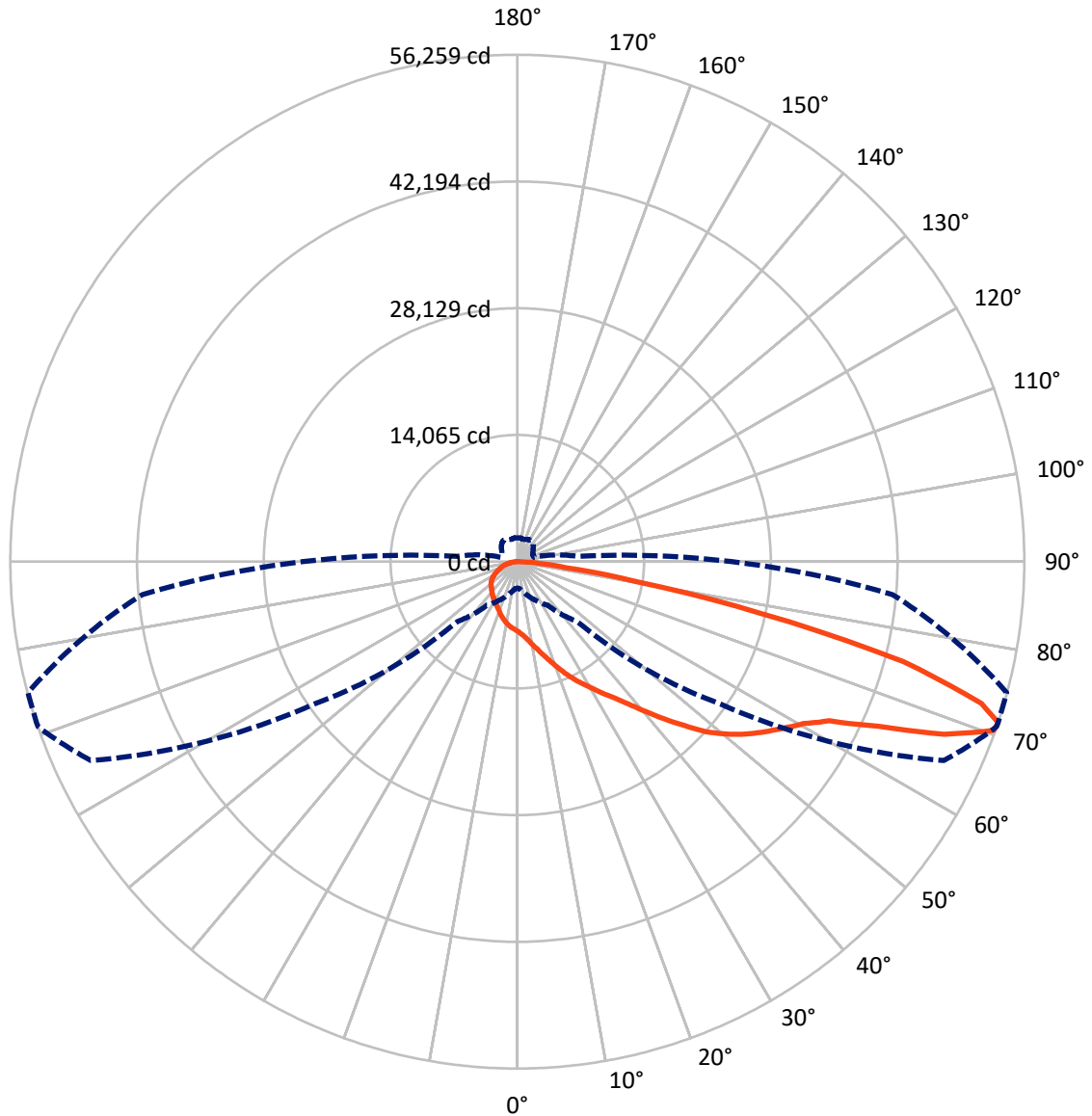
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11298.7	0.0	11298.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	51525.3	0.0	51525.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	62824.0	0.0	62824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.2	1.2
10°-20°	2515.2	4.0
20°-30°	4395.6	7.0
30°-40°	6537.9	10.4
40°-50°	9632.7	15.3
50°-60°	13486.0	21.5
60°-70°	15083.6	24.0
70°-80°	9213.6	14.7
80°-90°	1185.2	1.9
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°	62824.0	100.0
0°-180°	62824.0	100.0

Coefficient of Utilization



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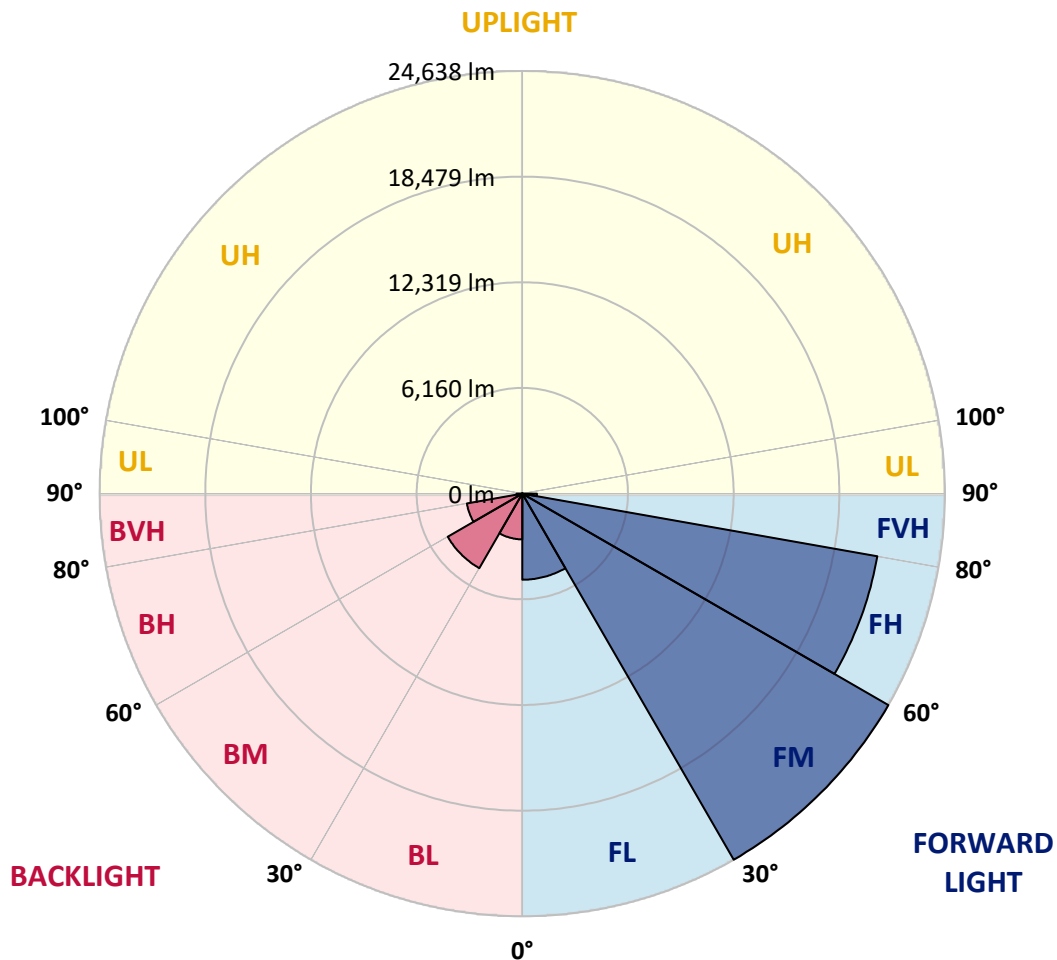
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5019.7	8.0			
FM	(30°-60°)	24638.3	39.2			
FH	(60°-80°)	21014.4	33.4			G5
FVH	(80°-90°)	852.8	1.4			G5
BL	(0°-30°)	2665.3	4.2	B4/5000		
BM	(30°-60°)	5018.2	8.0	B4/8500		
BH	(60°-80°)	3282.8	5.2	B4/5000		G4/5000
BVH	(80°-90°)	332.4	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4
2.5°	8559.8	8518.4	8521.8	8463.1	8387.2	8304.3	8186.9	8083.3	8000.5	7952.1	7810.5
5°	9485.2	9443.8	9392.0	9264.2	9209.0	9005.3	8746.3	8511.5	8331.9	8231.8	7948.7
7.5°	10234.5	10224.1	10210.3	10137.8	9996.3	9713.1	9492.1	9084.7	8818.8	8628.9	8145.5
10°	10697.2	10714.5	10724.8	10738.6	10679.9	10531.5	10227.6	9713.1	9374.7	9133.0	8401.0
12.5°	10932.0	10949.3	11008.0	11135.7	11215.1	11197.9	10949.3	10445.1	9979.0	9661.3	8673.8
15°	11077.0	11104.6	11208.2	11377.4	11643.3	11812.5	11691.6	11225.5	10714.5	10338.1	8998.4
17.5°	11235.9	11266.9	11380.9	11622.6	11971.3	12337.3	12468.6	12068.0	11512.1	11063.2	9360.9
20°	11325.6	11367.1	11529.4	11847.0	12254.5	12786.2	13221.3	13010.7	12402.9	11905.7	9778.7
22.5°	11470.7	11505.2	11643.3	11981.7	12468.6	13135.0	13974.0	13929.1	13393.9	12751.7	10238.0
25°	11864.3	11919.5	11988.6	12192.3	12661.9	13490.6	14599.0	14909.8	14353.9	13635.6	10659.2
27.5°	12606.7	12651.6	12648.1	12675.7	12941.6	13797.9	15141.1	15880.1	15306.9	14530.0	11066.7
30°	13452.6	13469.9	13483.7	13421.6	13480.3	14112.2	15638.3	16840.0	16266.8	15448.4	11422.3
32.5°	14481.6	14516.1	14398.7	14239.9	14191.6	14578.3	16049.2	17799.9	17402.8	16380.7	11774.5
35°	15697.0	15786.8	15548.6	15268.9	15072.1	15248.2	16601.7	18780.5	18566.4	17572.0	12240.7
37.5°	17085.1	17195.6	16974.6	16425.6	16145.9	16194.3	17323.4	19992.5	20037.4	18929.0	12934.7
40°	18221.1	18366.2	18373.1	17596.2	17171.5	17226.7	18238.4	21297.7	21812.2	20607.1	13753.0
42.5°	18970.4	19112.0	19260.5	18804.7	18359.3	18673.5	19305.4	22713.4	23808.0	22644.4	14896.0
45°	19792.2	19920.0	20002.9	19795.7	19547.1	20362.0	20593.3	24218.9	25935.0	24919.8	16145.9
47.5°	20745.2	20886.8	20966.2	20769.4	20676.2	21843.3	21981.4	25624.2	28207.0	27129.7	17527.1
50°	22015.9	22123.0	22081.5	21957.2	21936.5	22979.3	23314.2	26939.8	30082.0	29508.8	18960.1
52.5°	23597.4	23725.1	23770.0	23593.9	23514.5	23790.7	24388.1	28138.0	31787.7	31552.9	20489.7
55°	24553.8	24757.6	25441.2	25717.5	25907.4	24840.4	25544.8	29460.5	33317.4	33707.6	22133.3
57.5°	23328.0	23590.5	25120.1	26501.3	28286.5	27464.7	27185.0	30841.6	34847.0	35796.6	24101.5
60°	20337.8	20396.5	22368.1	24912.9	28504.0	30838.2	30606.8	33037.7	36504.4	37902.9	26694.7
62.5°	14108.7	14233.0	16563.7	20624.4	25817.6	32053.6	36428.5	36829.0	38880.1	41055.4	30496.3
65°	7275.3	7113.0	9236.6	12962.3	19464.2	29167.0	41145.2	43800.5	44031.8	45986.2	35848.4
67.5°	4478.5	4551.0	5545.4	7568.8	11508.6	21197.6	40651.4	52318.9	51100.0	52039.2	40817.2
70°	3363.2	3452.9	4136.6	5179.4	7016.4	12119.8	32692.4	54383.7	56086.0	55844.3	42329.5
71°	2924.6	3017.9	3729.2	4713.3	5894.2	9354.0	27544.1	52222.2	56258.7	56217.3	41759.8
72.5°	2493.0	2551.7	3107.6	3991.6	4968.8	6557.1	20693.4	46835.6	53858.9	55236.6	39726.0
75°	1957.8	2002.7	2251.3	3045.5	3912.2	4026.1	11104.6	35112.9	44235.6	46859.8	33072.2
77.5°	1595.3	1626.3	1754.1	2261.7	3017.9	2852.1	5825.1	22855.0	27713.3	30354.8	19481.5
80°	1267.2	1301.8	1377.7	1533.1	2261.7	2033.8	2779.6	11581.1	13387.0	13359.4	7776.0
82.5°	984.1	994.4	1084.2	1125.7	1546.9	1443.3	1505.5	4903.2	5431.5	5611.0	2807.2
85°	621.5	652.6	959.9	863.2	925.4	846.0	742.4	1947.5	2399.8	2365.3	1122.2
87.5°	189.9	200.3	324.6	366.0	410.9	369.5	272.8	573.2	700.9	759.6	279.7
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°	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4	7710.4
2.5°	7755.3	7717.3	7582.6	7472.2	7368.6	7254.6	7157.9	7130.3	7106.1	7095.8	7092.3
5°	7827.8	7713.9	7448.0	7230.4	7057.8	6899.0	6798.8	6753.9	6709.1	6709.1	6722.9
7.5°	7931.4	7724.2	7313.3	6988.7	6771.2	6622.7	6550.2	6543.3	6553.7	6564.0	6567.5
10°	8045.3	7717.3	7116.5	6712.5	6519.1	6450.1	6453.5	6512.2	6567.5	6608.9	6615.8
12.5°	8155.8	7675.9	6885.2	6453.5	6329.2	6343.0	6439.7	6570.9	6678.0	6736.7	6740.1
15°	8280.1	7610.3	6605.5	6208.4	6166.9	6274.0	6453.5	6653.8	6816.1	6912.8	6923.1
17.5°	8383.7	7499.8	6312.0	5970.1	6021.9	6218.7	6467.3	6726.3	6923.1	7044.0	7064.7
20°	8501.1	7358.2	6008.1	5742.2	5890.7	6156.6	6439.7	6719.4	6923.1	7040.5	7068.2
22.5°	8594.4	7157.9	5718.1	5555.8	5773.3	6080.6	6346.5	6570.9	6736.7	6798.8	6840.3
25°	8632.3	6905.9	5445.3	5403.8	5680.1	5956.3	6135.9	6263.6	6315.4	6308.5	6325.8
27.5°	8611.6	6615.8	5210.5	5283.0	5562.7	5763.0	5852.7	5842.4	5749.1	5662.8	5704.3
30°	8525.3	6270.5	5013.7	5158.7	5410.8	5521.2	5507.4	5372.8	5196.7	5034.4	5044.7
32.5°	8369.9	5897.6	4830.7	5017.1	5196.7	5245.0	5151.8	4975.7	4723.6	4513.0	4481.9
35°	8238.7	5542.0	4668.4	4854.8	4982.6	4958.4	4868.6	4640.7	4412.9	4226.4	4195.3
37.5°	8218.0	5238.1	4513.0	4671.8	4744.3	4709.8	4599.3	4405.9	4323.1	4181.5	4164.2
40°	8328.5	5024.0	4354.2	4478.5	4513.0	4485.4	4364.5	4254.0	4330.0	4295.5	4295.5
42.5°	8628.9	4910.1	4212.6	4285.1	4312.7	4333.4	4247.1	4153.9	4247.1	4088.3	4036.5
45°	9105.4	4913.5	4084.8	4095.2	4178.1	4250.6	4191.9	4053.7	4005.4	3687.7	3625.6
47.5°	9806.3	5030.9	3981.2	3915.6	4064.1	4185.0	4102.1	3901.8	3687.7	3477.1	3439.1
50°	10624.7	5241.6	3888.0	3729.2	3912.2	4102.1	4039.9	3805.1	3584.1	3456.4	3432.2
52.5°	11532.8	5507.4	3774.1	3522.0	3725.7	4064.1	4053.7	3791.3	3487.5	3401.1	3380.4
55°	12655.0	5769.9	3632.5	3280.3	3560.0	4033.0	4015.8	3677.4	3466.7	3404.6	3397.7
57.5°	13960.2	6149.7	3428.8	3035.1	3370.1	3905.3	3867.3	3608.3	3397.7	3352.8	3349.3
60°	16063.1	6740.1	3138.7	2810.7	3176.7	3680.8	3729.2	3490.9	3287.2	3276.8	3273.4
62.5°	18828.9	7568.8	2838.3	2579.3	2952.3	3390.8	3528.9	3332.1	3169.8	3221.6	3228.5
65°	22647.8	8266.3	2527.5	2382.5	2703.6	3111.1	3339.0	3183.6	3038.6	3138.7	3138.7
67.5°	25137.4	8280.1	2244.4	2178.8	2451.6	2876.3	3138.7	3007.5	2869.4	3038.6	3045.5
70°	24619.4	7254.6	2009.6	1964.7	2206.4	2624.2	2917.7	2814.1	2655.3	2807.2	2752.0
71°	23783.8	6684.9	1916.4	1881.9	2109.7	2503.4	2814.1	2727.8	2569.0	2669.1	2638.0
72.5°	22451.0	5804.4	1764.5	1771.4	1964.7	2351.4	2669.1	2579.3	2420.5	2475.8	2465.4
75°	18977.3	5068.9	1508.9	1540.0	1688.5	2092.5	2379.1	2310.0	2147.7	2147.7	2137.4
77.5°	11864.3	3542.7	1253.4	1270.7	1433.0	1792.1	2044.1	1985.4	1830.1	1778.3	1764.5
80°	4426.7	1830.1	980.6	1001.4	1101.5	1412.3	1691.9	1636.7	1477.9	1419.2	1363.9
82.5°	1674.7	918.5	721.7	704.4	811.4	1077.3	1325.9	1260.3	1136.0	994.4	953.0
85°	631.9	455.8	442.0	428.2	476.5	638.8	821.8	808.0	676.8	576.6	566.3
87.5°	165.7	148.5	172.6	127.8	134.7	120.9	124.3	51.8	24.2	10.4	6.9
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)