

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: P458249

Luminaire Tested: **GALN-SA9C-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458249
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-SA9C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 46749 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

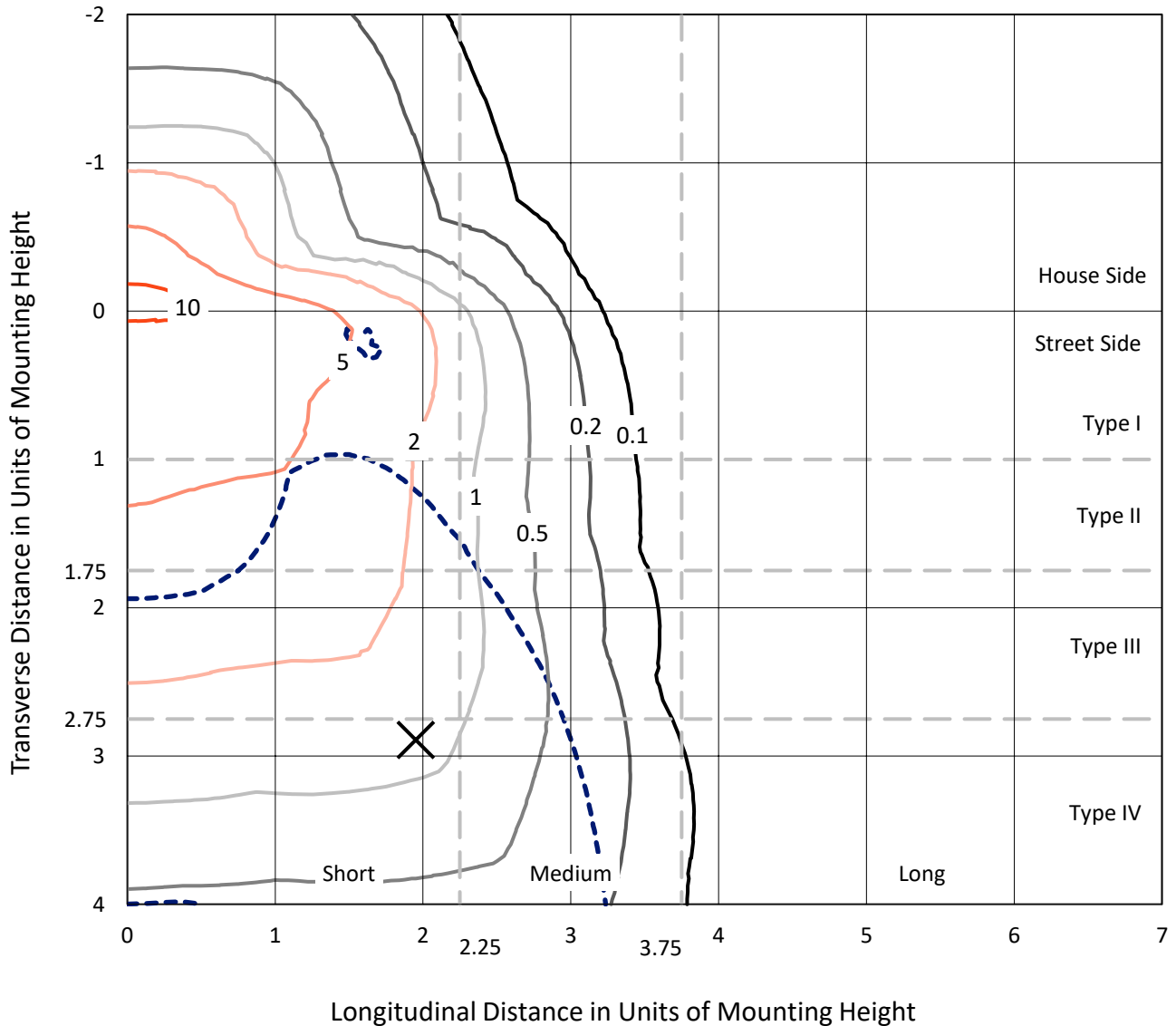
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458249
 CATALOG NUMBER: GALN-SA9C-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

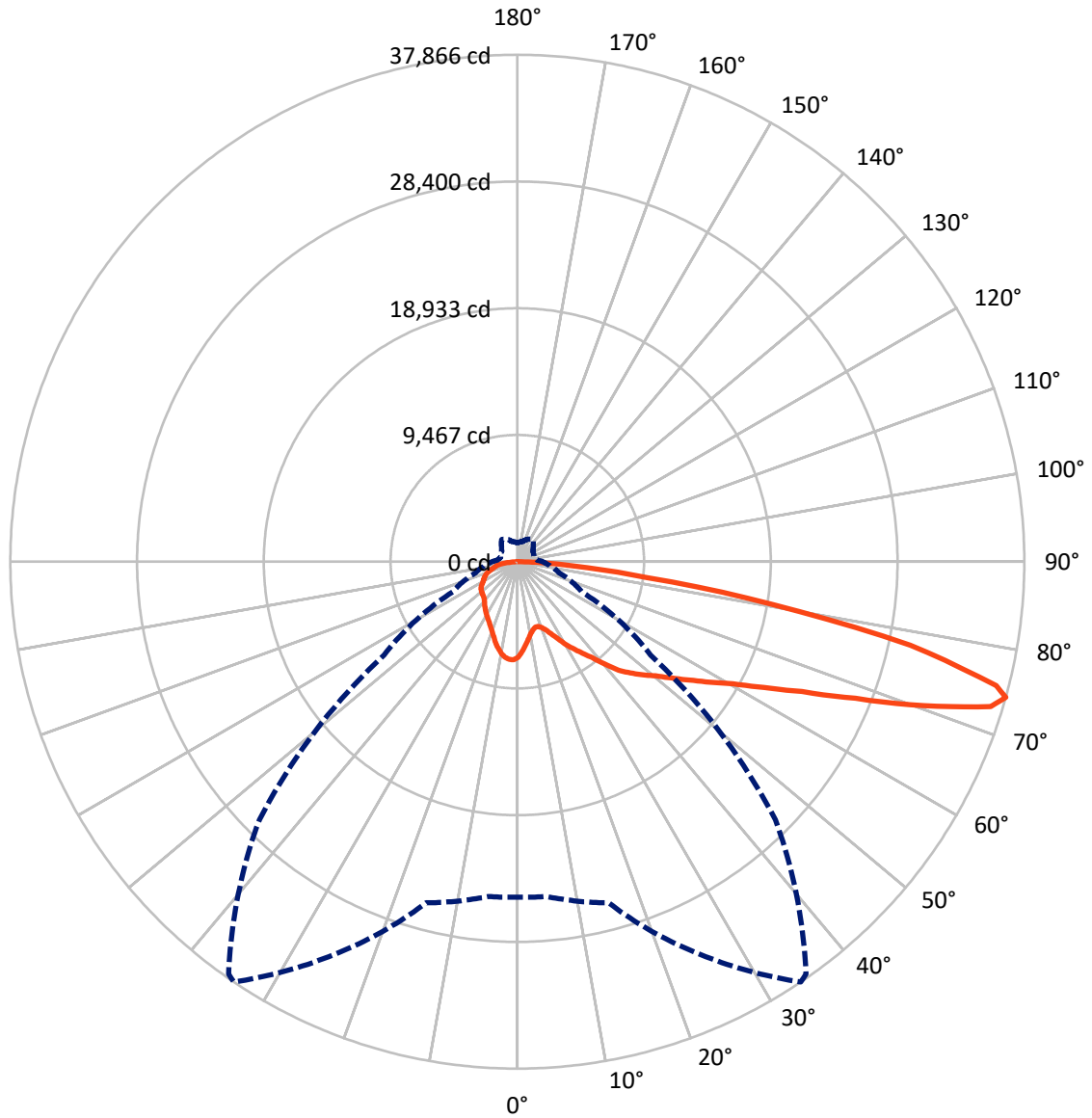
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P458249
CATALOG NUMBER: GALN-SA9C-827-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P458249

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9948.5	0.0	9948.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	36800.5	0.0	36800.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	46749.0	0.0	46749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.1	1.4
10°-20°	1777.0	3.8
20°-30°	2929.8	6.3
30°-40°	4388.5	9.4
40°-50°	6379.7	13.6
50°-60°	8910.9	19.1
60°-70°	11156.0	23.9
70°-80°	9225.1	19.7
80°-90°	1333.0	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°	46749.0	100.0
0°-180°	46749.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458249

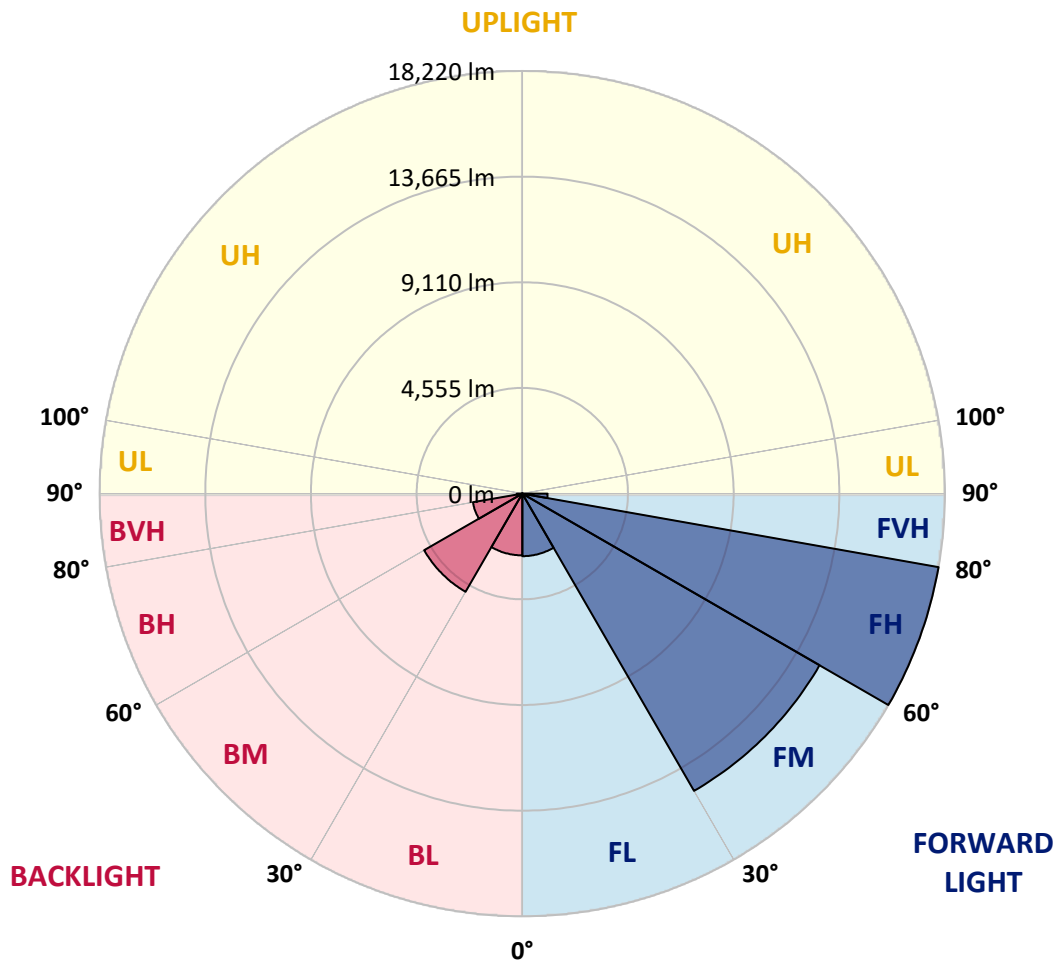
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2694.9	5.8			
FM (30°-60°)	14793.3	31.6			
FH (60°-80°)	18220.3	39.0			G5
FVH (80°-90°)	1092.0	2.3			G5
BL (0°-30°)	2661.1	5.7	B4/5000		
BM (30°-60°)	4885.7	10.5	B3/5000		
BH (60°-80°)	2160.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	241.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6
2.5°	6596.4	6630.0	6648.2	6712.9	6728.5	6749.2	6803.6	6876.1	6969.3	7052.2	7124.7
5°	6047.3	6099.1	6130.2	6187.2	6298.5	6308.9	6453.9	6619.7	6808.7	6984.8	7129.9
7.5°	5526.8	5583.7	5609.6	5713.2	5860.8	5884.2	6096.5	6358.1	6674.1	6940.8	7163.5
10°	5135.7	5164.2	5221.2	5298.8	5475.0	5490.5	5767.6	6117.2	6526.4	6920.1	7220.5
12.5°	4923.3	4938.9	4951.8	5034.7	5208.2	5231.5	5521.6	5917.8	6409.9	6935.6	7313.8
15°	4954.4	4959.6	4902.6	4918.1	5058.0	5091.7	5379.1	5785.7	6337.4	6974.5	7453.6
17.5°	5216.0	5197.8	5058.0	4985.5	5083.9	5099.4	5350.6	5733.9	6303.7	7047.0	7598.6
20°	5627.8	5601.9	5361.0	5200.4	5257.4	5270.4	5443.9	5772.8	6337.4	7166.1	7824.0
22.5°	6140.6	6130.2	5765.0	5570.8	5568.2	5568.2	5658.8	5912.6	6438.4	7329.3	8059.6
25°	6857.9	6803.6	6327.0	6075.8	6005.9	6000.7	5990.3	6143.1	6567.9	7502.8	8339.3
27.5°	7593.5	7500.2	7075.5	6689.6	6539.4	6521.3	6453.9	6469.5	6733.6	7699.6	8657.9
30°	8253.9	8194.3	7795.5	7368.1	7189.4	7148.0	6961.5	6876.1	7010.7	8054.5	9165.5
32.5°	8758.9	8722.6	8411.9	8023.4	7759.2	7751.4	7479.5	7409.6	7443.3	8484.4	9745.6
35°	9168.1	9181.0	9023.1	8686.4	8383.4	8339.3	8158.1	8070.0	7971.6	9105.9	10476.0
37.5°	9727.5	9756.0	9745.6	9455.6	9085.2	9095.6	9054.1	8909.1	8647.5	9800.0	11286.6
40°	10343.9	10364.6	10362.0	10250.7	10056.4	10066.8	10051.2	9885.5	9494.4	10683.2	12187.9
42.5°	11196.0	11097.5	10841.1	10952.5	11066.5	11115.7	11221.9	11063.9	10527.8	11625.9	13034.8
45°	12149.0	11962.6	11382.4	11434.2	11856.4	11949.6	12534.9	12317.4	11649.2	12708.4	14031.8
47.5°	12749.9	12566.0	12076.5	12066.1	12625.6	12716.2	13752.1	13671.9	12669.6	13876.5	15249.1
50°	13286.0	13260.1	12708.4	12840.5	13387.0	13521.6	15078.2	15003.0	13687.4	15254.3	16575.1
52.5°	14081.1	13871.3	13431.0	13702.9	14425.5	14601.6	16393.8	16173.7	14622.3	16471.5	17862.2
55°	14438.5	14389.2	14363.4	14599.0	15590.9	15717.8	17673.2	17168.2	15420.0	17502.3	18841.2
57.5°	15394.1	15303.5	15559.9	15720.4	16963.6	17157.8	19009.6	18206.7	16119.3	18320.7	19317.7
60°	16632.1	16582.9	16818.5	17108.6	18496.8	18792.0	20532.4	19092.4	16681.3	18732.4	19056.2
62.5°	18481.2	18476.0	18432.0	19053.6	20669.7	20941.6	22280.5	19954.9	16769.3	18424.2	17704.3
65°	21133.2	21040.0	20656.7	21335.2	23373.5	23692.0	24101.2	20436.6	16238.4	16841.8	14907.2
67.5°	23907.0	23901.8	23591.0	24471.6	27255.7	27584.6	26377.7	20330.4	14764.8	13643.4	10587.3
70°	26206.8	26095.4	26491.7	28838.1	32215.2	32595.9	28369.3	19079.5	11760.5	9010.1	6290.8
72.5°	26758.4	26763.6	27587.2	32204.9	36978.0	37037.6	29086.7	15464.0	7870.6	4969.9	3146.7
74°	25059.5	25103.5	26380.3	32373.2	37866.3	37597.0	27253.1	12154.2	5322.2	3245.1	2268.7
75°	22873.6	22596.5	24443.1	31251.8	36944.3	36654.3	25106.1	9753.4	4060.9	2592.4	1986.4
77.5°	12229.3	12511.6	15360.4	23321.7	30013.9	29679.8	17023.1	4677.3	2193.6	1805.1	1429.6
80°	4353.6	4801.6	6749.2	12203.4	19242.6	19346.2	8124.4	2144.4	1543.6	1331.2	1010.0
82.5°	1776.6	1825.8	2898.1	5415.4	9771.5	9864.8	3317.6	1274.2	1103.3	916.8	603.4
85°	694.1	714.8	1282.0	2434.5	4169.7	4441.6	1147.3	673.4	678.5	525.7	308.2
87.5°	233.1	264.2	525.7	810.6	1416.7	1388.2	334.1	199.4	243.4	227.9	95.8
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°	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6	7137.6
2.5°	7161.0	7210.2	7243.8	7280.1	7313.8	7324.1	7316.3	7339.7	7342.2	7344.8	7347.4
5°	7202.4	7269.7	7334.5	7370.7	7386.3	7373.3	7329.3	7306.0	7285.3	7269.7	7274.9
7.5°	7259.4	7355.2	7414.8	7430.3	7388.9	7329.3	7220.5	7135.1	7080.7	7044.4	7041.8
10°	7347.4	7440.7	7489.9	7445.8	7331.9	7186.9	7015.9	6855.4	6733.6	6697.4	6694.8
12.5°	7458.8	7565.0	7562.4	7432.9	7233.5	6974.5	6697.4	6510.9	6345.2	6262.3	6295.9
15°	7603.8	7684.1	7609.0	7375.9	7060.0	6705.1	6363.3	6109.5	5923.0	5834.9	5840.1
17.5°	7772.2	7842.1	7642.7	7274.9	6816.5	6360.7	5964.4	5723.6	5576.0	5511.2	5506.0
20°	7981.9	8002.7	7642.7	7098.8	6503.1	5959.3	5581.1	5412.8	5329.9	5296.3	5306.6
22.5°	8207.3	8165.8	7601.2	6850.2	6091.3	5539.7	5285.9	5210.8	5169.4	5164.2	5169.4
25°	8461.1	8344.5	7515.8	6513.5	5661.4	5177.1	5029.5	5042.5	5050.2	5050.2	5068.4
27.5°	8771.8	8538.8	7373.3	6088.8	5159.0	4840.4	4799.0	4889.7	4931.1	4938.9	4951.8
30°	9181.0	8751.1	7137.6	5557.8	4731.7	4537.4	4609.9	4731.7	4778.3	4806.8	4801.6
32.5°	9667.9	8984.2	6819.1	5026.9	4387.2	4325.1	4413.1	4537.4	4589.2	4604.8	4584.0
35°	10240.3	9248.4	6399.5	4529.7	4086.8	4123.1	4226.6	4265.5	4312.1	4312.1	4322.5
37.5°	10856.7	9460.8	5886.7	4073.8	3853.7	3985.8	4060.9	4024.6	4003.9	3978.0	3991.0
40°	11483.4	9618.7	5221.2	3623.2	3620.6	3843.3	3864.1	3760.5	3677.6	3651.7	3638.8
42.5°	12029.9	9717.1	4620.3	3273.6	3400.5	3703.5	3719.0	3553.3	3421.2	3343.5	3317.6
45°	12674.8	9831.1	4032.4	2983.5	3195.9	3592.1	3631.0	3408.3	3214.0	3050.9	3009.4
47.5°	13557.9	10090.1	3568.8	2758.2	3048.3	3522.2	3576.6	3289.1	3032.7	2820.4	2786.7
50°	14555.0	10444.9	3208.8	2605.4	2934.3	3460.0	3527.4	3167.4	2864.4	2628.7	2602.8
52.5°	15469.2	10636.5	2898.1	2468.1	2822.9	3346.1	3462.6	3079.3	2698.6	2437.1	2413.7
55°	15969.1	10325.8	2592.4	2333.5	2670.1	3198.5	3372.0	2957.6	2538.1	2336.1	2302.4
57.5°	16036.4	9683.5	2315.3	2188.4	2509.6	3017.2	3203.7	2810.0	2434.5	2266.1	2237.6
60°	15515.8	8725.2	2100.4	2069.3	2346.4	2812.6	3014.6	2680.5	2328.3	2188.4	2159.9
62.5°	14220.9	7684.1	1950.2	1960.5	2180.7	2597.6	2874.7	2556.2	2227.3	2103.0	2077.1
65°	11993.6	6342.6	1805.1	1849.2	2033.0	2429.3	2747.8	2452.6	2126.3	2038.2	2014.9
67.5°	8331.6	4578.9	1686.0	1732.6	1893.2	2258.4	2600.2	2341.2	2012.3	1965.7	1929.4
70°	4612.5	2817.8	1546.1	1600.5	1748.2	2066.7	2434.5	2172.9	1846.6	1825.8	1774.1
72.5°	2424.1	1794.8	1388.2	1447.7	1551.3	1820.7	2180.7	1989.0	1683.4	1595.4	1528.0
74°	1893.2	1471.0	1282.0	1344.1	1414.1	1675.6	2030.4	1856.9	1566.9	1463.3	1411.5
75°	1649.7	1310.5	1191.3	1271.6	1333.8	1577.2	1913.9	1763.7	1502.1	1403.7	1357.1
77.5°	1165.4	981.6	973.8	1069.6	1103.3	1383.0	1724.8	1605.7	1339.0	1235.4	1191.3
80°	818.4	735.5	771.8	831.3	878.0	1222.4	1600.5	1388.2	1098.1	976.4	960.8
82.5°	533.5	481.7	551.6	606.0	621.6	901.3	1292.3	1054.1	800.3	650.1	603.4
85°	246.0	240.9	316.0	308.2	305.6	440.3	766.6	616.4	461.0	344.5	323.7
87.5°	62.2	59.6	77.7	64.7	77.7	67.3	69.9	18.1	2.6	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)