

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: P651130

Luminaire Tested: **GALN-SA9C-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39919.8 lumens
Efficiency: N/A
Efficacy: 83.0 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

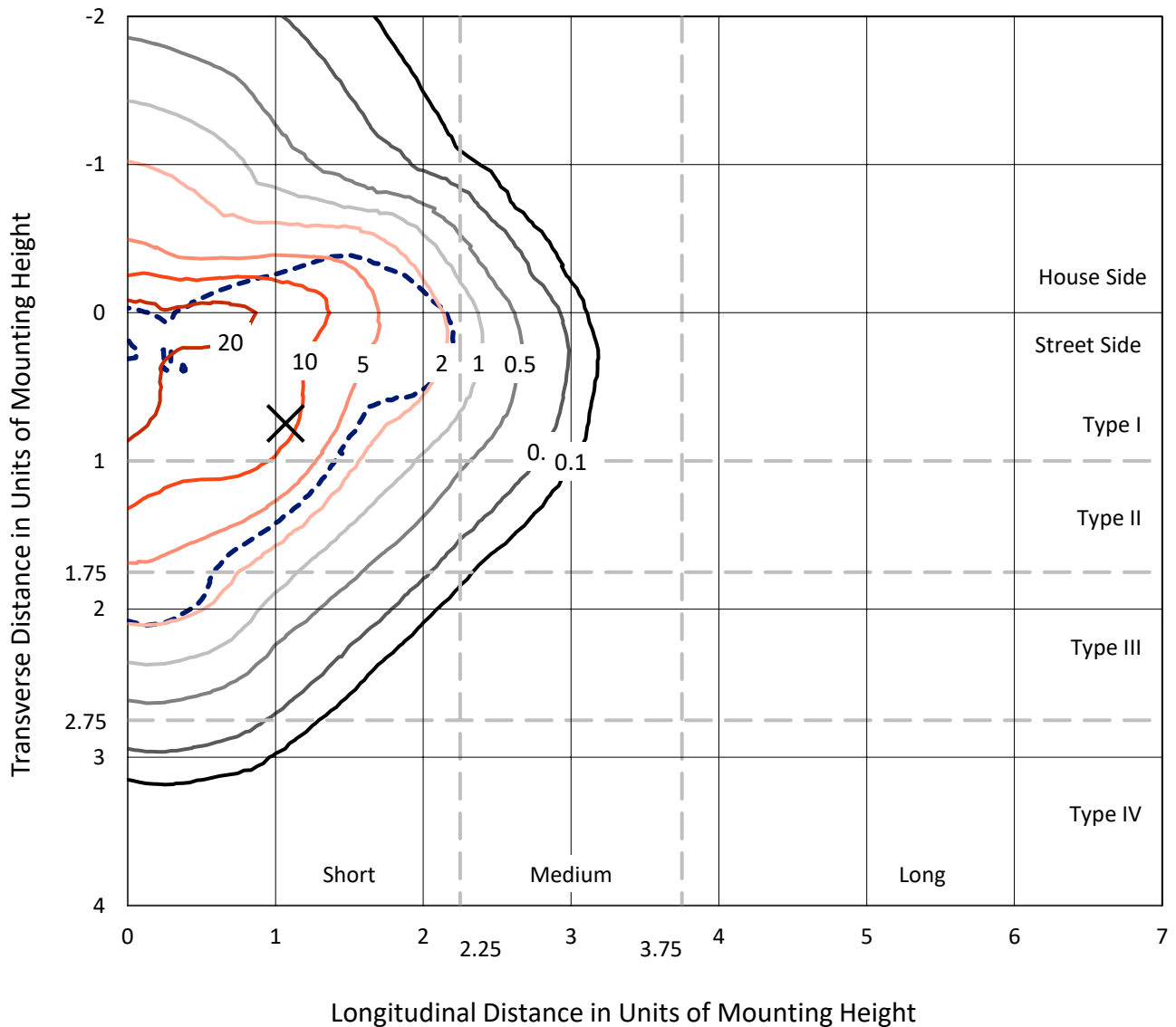
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

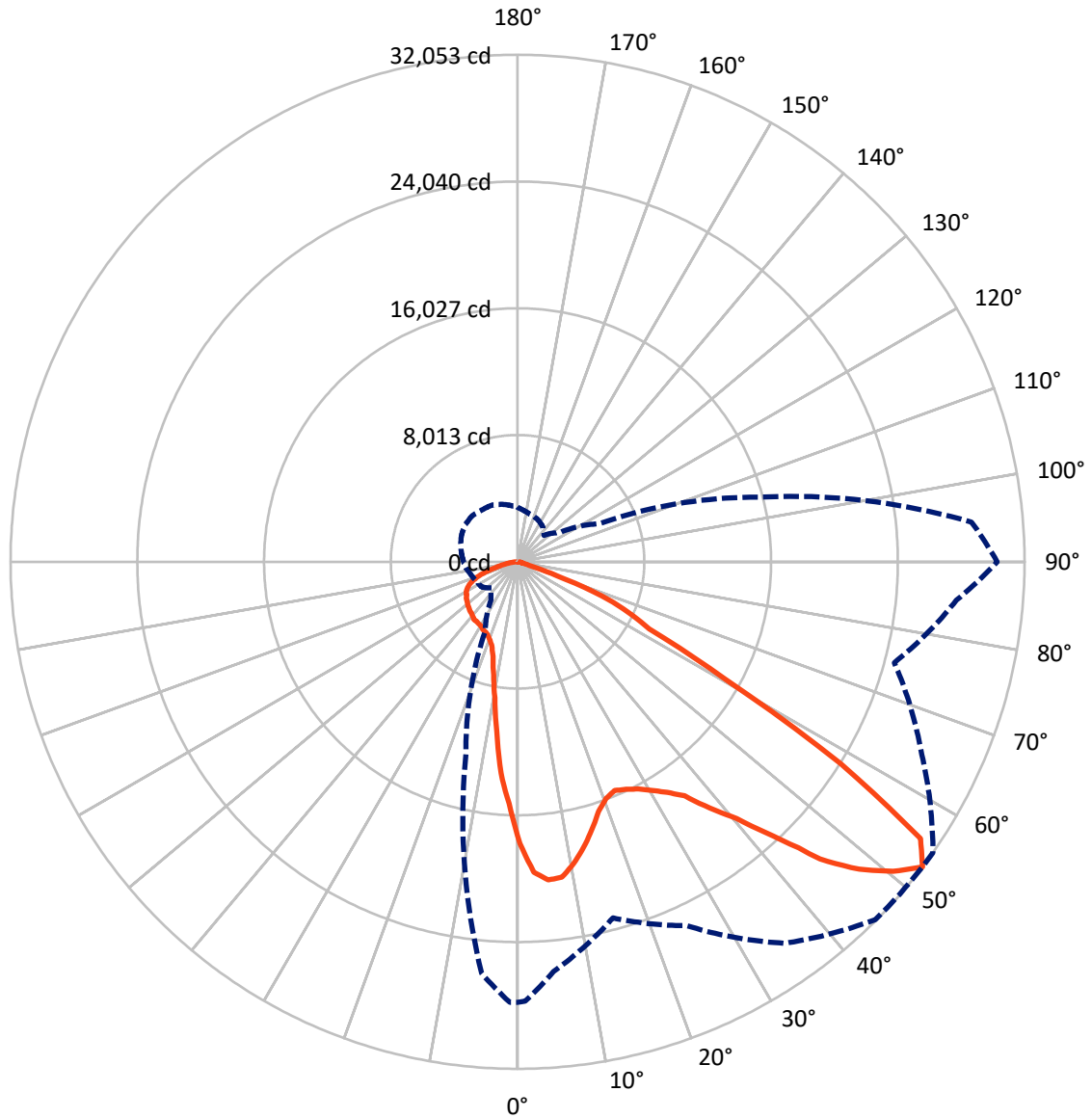
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12177.7	0.0	12177.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	27742.1	0.0	27742.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	39919.8	0.0	39919.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1360.5	3.4
10°-20°	2933.3	7.3
20°-30°	4447.8	11.1
30°-40°	6426.4	16.1
40°-50°	8587.5	21.5
50°-60°	9585.5	24.0
60°-70°	5258.1	13.2
70°-80°	1136.8	2.8
80°-90°	183.9	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°	39919.8	100.0
0°-180°	39919.8	100.0

Coefficient of Utilization

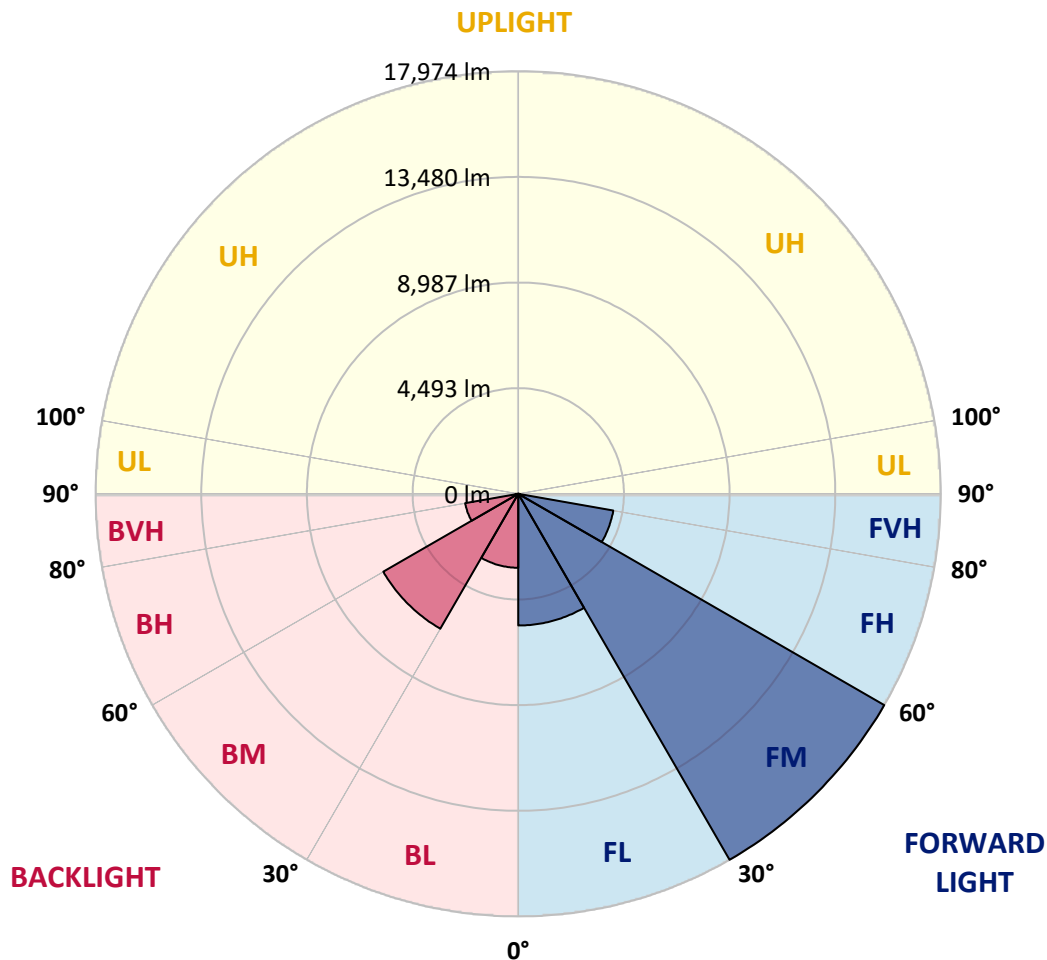


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5597.5	14.0			
FM (30°-60°)	17973.7	45.0			
FH (60°-80°)	4102.8	10.3			G2/5000
FVH (80°-90°)	68.1	0.2			G1/100
BL (0°-30°)	3144.1	7.9	B4/5000		
BM (30°-60°)	6625.7	16.6	B4/8500		
BH (60°-80°)	2292.1	5.7	B3/2500		G3/2500
BVH (80°-90°)	115.8	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 (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3
2.5°	15761.3	15563.2	15639.0	15732.2	15598.1	15289.2	15370.8	15335.8	15650.6	15627.3	15942.1
5°	13214.1	12905.2	12940.1	13394.8	13249.1	13406.5	13091.7	13050.9	13109.2	13138.4	13190.8
7.5°	10113.1	10072.3	10422.1	10806.8	10987.5	10801.0	10492.1	10422.1	10357.9	10229.8	10521.2
10°	8253.7	8265.3	8242.1	8533.5	8737.5	8696.7	8510.2	8486.9	8364.5	8317.8	8481.1
12.5°	7367.7	7210.3	7134.5	7041.3	7198.7	7303.6	7222.0	7163.7	7169.5	7227.8	7251.2
15°	6510.9	6411.8	6248.5	6143.7	6219.4	6167.0	6137.9	6254.4	6225.3	6213.6	6353.5
17.5°	5549.1	5630.7	5619.1	5502.5	5601.6	5560.8	5555.0	5473.3	5362.6	5281.0	5327.7
20°	4913.8	5065.3	5181.9	5187.7	5240.2	5234.4	5146.9	4896.3	4814.6	4797.1	4808.8
22.5°	4686.5	4768.0	4907.9	5106.1	5106.1	5012.9	4907.9	4616.5	4540.7	4459.2	4424.2
25°	4505.7	4663.1	4843.8	4867.1	4960.4	4872.9	4704.0	4558.2	4400.8	4290.1	4290.1
27.5°	4412.5	4587.3	4721.4	4762.2	4890.4	4820.5	4645.6	4459.2	4272.6	4266.7	4167.7
30°	4371.7	4534.9	4622.3	4721.4	4779.7	4669.0	4616.5	4418.3	4231.7	4185.2	4021.9
32.5°	4249.2	4482.4	4645.6	4622.3	4669.0	4622.3	4546.5	4383.4	4173.5	4068.6	4051.1
35°	4109.4	4342.5	4517.4	4639.8	4669.0	4569.8	4523.2	4301.7	4016.1	3963.6	3783.0
37.5°	4033.6	4173.5	4389.2	4587.3	4628.1	4575.7	4418.3	4191.0	3905.4	3847.1	3689.7
40°	3940.3	4121.1	4290.1	4453.3	4575.7	4447.5	4266.7	4045.3	3917.0	3742.1	3695.5
42.5°	3870.4	4074.4	4214.3	4395.0	4534.9	4365.9	4156.0	4004.4	3823.8	3707.2	3573.2
44°	3847.1	4033.6	4126.9	4348.4	4465.0	4336.7	4161.9	4004.4	3794.6	3689.7	3573.2
45°	3765.5	4021.9	4121.1	4319.2	4418.3	4313.4	4091.9	3934.5	3783.0	3654.7	3532.3
47.5°	3683.8	3858.8	4027.8	4185.2	4255.1	4220.1	4033.6	3841.3	3660.5	3584.8	3468.2
50°	3660.5	3835.4	3992.8	4138.6	4220.1	4150.2	3981.1	3794.6	3584.8	3462.4	3363.2
52.5°	3544.0	3759.6	3934.5	3981.1	4086.1	4045.3	3917.0	3713.0	3514.8	3409.9	3328.3
55°	3374.9	3602.3	3841.3	3899.5	4051.1	3986.9	3794.6	3602.3	3433.2	3275.9	3170.9
57.5°	3310.8	3532.3	3765.5	3841.3	3934.5	3829.6	3783.0	3579.0	3310.8	3229.2	3066.0
60°	3147.6	3427.4	3619.7	3794.6	3800.5	3771.3	3689.7	3456.5	3235.1	3083.5	2966.9
62.5°	3019.4	3281.7	3433.2	3596.5	3695.5	3613.9	3532.3	3316.7	3077.6	2908.6	2774.5
65°	2832.8	3071.8	3200.1	3299.2	3409.9	3398.2	3258.4	3100.9	2850.3	2716.3	2588.0
67.5°	2547.2	2757.1	2932.0	3025.2	3095.1	3077.6	2972.8	2862.0	2605.5	2471.4	2378.2
70°	2203.3	2419.0	2529.7	2582.2	2652.2	2687.2	2605.5	2553.0	2325.7	2150.9	2063.4
72.5°	1772.0	1911.8	2075.1	2121.8	2150.9	2174.2	2174.2	2127.6	1894.4	1824.5	1672.9
75°	1305.7	1416.4	1538.9	1538.9	1591.3	1597.1	1608.7	1579.7	1404.8	1311.5	1276.6
77.5°	886.0	967.6	1066.7	1107.5	1142.5	1136.6	1130.8	1049.2	956.0	915.2	880.2
80°	577.1	658.7	705.3	757.7	792.7	786.9	798.5	740.2	699.5	629.5	641.2
82.5°	343.9	408.1	454.6	518.8	518.8	536.2	536.2	518.8	477.9	443.0	443.0
85°	163.2	215.6	244.8	285.6	308.9	314.8	279.8	239.0	198.2	180.7	198.2
87.5°	29.2	40.8	58.3	52.5	64.1	58.3	58.3	58.3	58.3	46.6	52.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3	17807.3
2.5°	15825.4	16116.9	16321.0	16659.0	17241.9	17708.2	18186.2	18541.7	18582.6	18687.4
5°	13383.2	13540.5	14059.3	14735.5	15213.4	16000.4	16507.5	17428.4	17772.3	18139.5
7.5°	10451.2	10707.7	11401.4	11856.0	12905.2	13890.3	14910.3	16047.0	16501.6	16554.1
10°	8813.3	9186.3	9658.5	10387.1	10958.3	12054.1	13324.9	14589.8	15096.9	15184.3
12.5°	7740.8	8218.8	8848.2	9372.9	9920.8	10876.7	12095.0	13657.1	14315.8	14712.1
15°	6709.1	7204.5	7898.2	8626.8	9110.6	10253.1	11687.0	13447.3	14304.1	14653.8
17.5°	5648.2	6108.7	6679.9	7466.8	8440.3	9722.6	11622.9	14146.7	15085.2	15493.2
20°	4738.9	4995.4	5659.8	6470.1	7688.3	9180.5	11646.2	15178.5	16554.1	16734.8
22.5°	4383.4	4441.7	4704.0	5450.0	6784.9	8626.8	12060.0	16641.5	18203.7	18798.2
25°	4109.4	4097.7	4167.7	4669.0	6126.2	8411.1	12468.0	17988.0	20034.0	20680.9
27.5°	3957.8	3841.3	3847.1	4319.2	5659.8	8061.4	12992.6	19532.6	22109.0	22394.7
30°	3882.1	3858.8	3788.8	3981.1	5152.7	7536.8	13080.1	21054.0	23333.1	23747.0
32.5°	3835.4	3608.1	3520.7	3590.6	4674.8	6965.5	13406.5	22056.6	24848.6	24667.9
35°	3602.3	3398.2	3339.9	3409.9	4336.7	6644.9	13190.8	22930.9	25985.2	26288.3
37.5°	3514.8	3334.1	3217.6	3159.3	4021.9	6376.8	13080.1	24277.4	27086.9	27815.5
40°	3433.2	3240.9	3100.9	3042.7	3777.1	6021.2	13045.1	25314.9	28357.6	28794.7
42.5°	3339.9	3217.6	3060.1	2955.3	3479.9	5665.7	12642.9	25635.5	28748.2	29220.3
44°	3310.8	3124.3	2961.1	2926.1	3363.2	5485.0	12561.3	25926.9	29086.2	29803.2
45°	3281.7	3106.8	2920.3	2873.6	3322.5	5385.9	12450.5	25996.9	29645.8	29779.9
47.5°	3200.1	3089.3	2908.6	2780.3	3235.1	5170.2	12118.3	25600.5	29074.5	29097.8
50°	3135.9	3007.8	2821.2	2570.5	3118.4	4989.6	12269.9	25454.8	27698.9	27751.4
52.5°	3066.0	2873.6	2768.7	2337.4	2926.1	4838.0	12590.4	26113.5	27856.4	27844.7
55°	2984.4	2774.5	2518.1	2139.2	2605.5	4645.6	13365.7	27413.3	29313.6	29511.7
57.5°	2856.1	2675.5	2308.2	1964.3	2238.3	4278.4	13115.1	24924.4	26970.4	27005.3
60°	2687.2	2518.1	2092.6	1830.3	1836.1	3374.9	11727.7	19421.9	21281.3	21788.5
62.5°	2523.9	2430.7	1911.8	1637.9	1562.2	2687.2	9915.0	16140.2	18267.8	18687.4
65°	2331.6	2104.3	1754.5	1492.2	1340.6	1882.7	7023.9	12060.0	14251.7	14817.1
67.5°	2086.8	1842.0	1544.7	1311.5	1148.3	1259.1	3625.6	6854.8	9075.6	9407.8
70°	1824.5	1597.1	1299.8	1107.5	926.8	868.5	1597.1	3270.0	4960.4	5304.3
72.5°	1498.0	1288.2	1037.5	874.3	693.7	600.4	536.2	874.3	1760.3	2046.0
75°	1084.2	938.5	781.0	623.7	489.6	384.7	314.8	262.3	291.4	314.8
77.5°	798.5	682.0	577.1	443.0	343.9	274.0	215.6	163.2	157.4	151.5
80°	623.7	553.7	460.4	355.6	268.1	204.0	151.5	110.8	99.1	99.1
82.5°	489.6	454.6	378.9	291.4	221.5	163.2	110.8	75.8	64.1	64.1
85°	186.5	186.5	274.0	239.0	169.0	116.6	75.8	40.8	35.0	35.0
87.5°	46.6	46.6	46.6	46.6	40.8	35.0	35.0	17.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)