

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: P652109

Luminaire Tested: **GALN-SA9A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20351.4 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

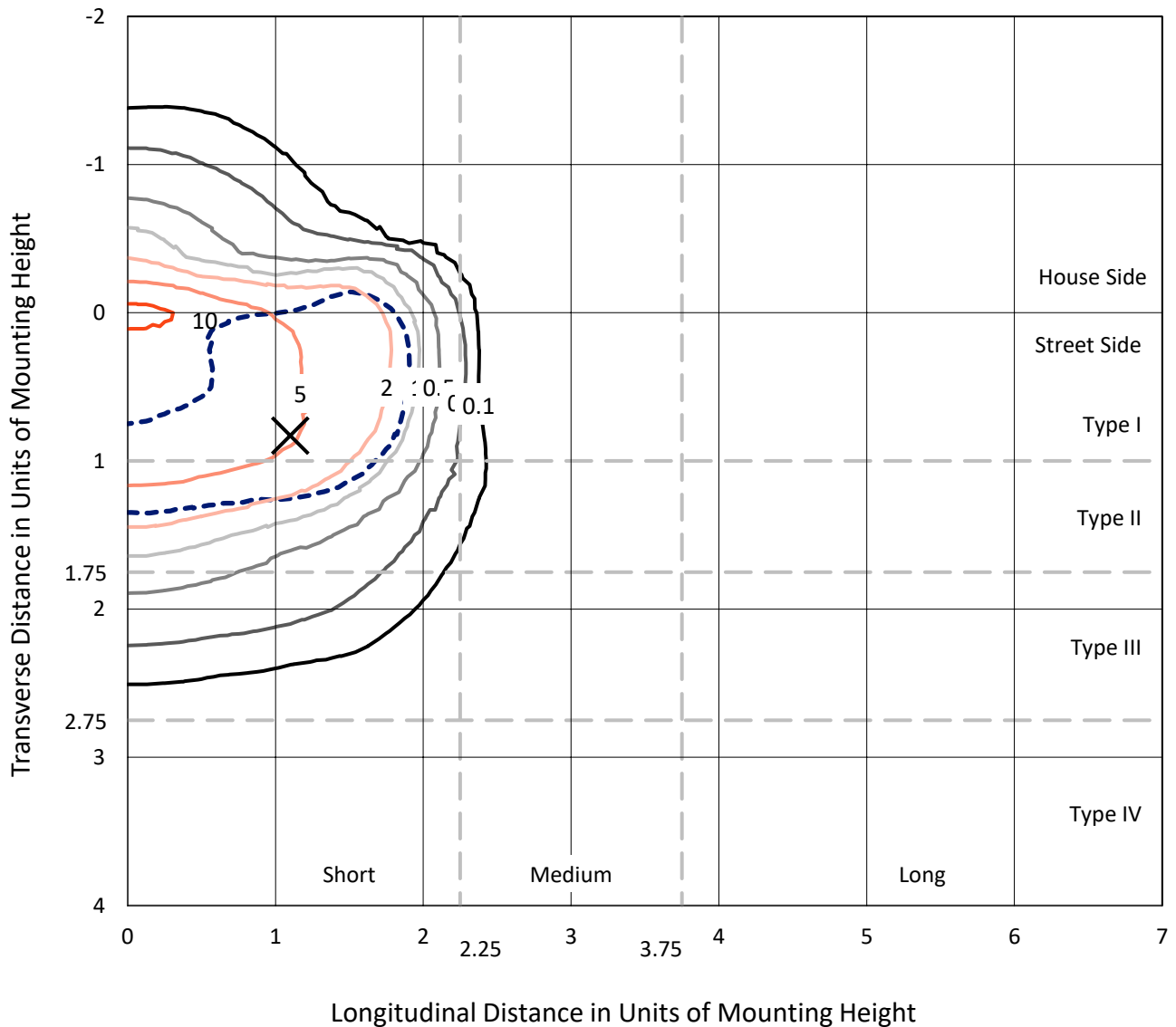
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652109
 CATALOG NUMBER: GALN-SA9A-840-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

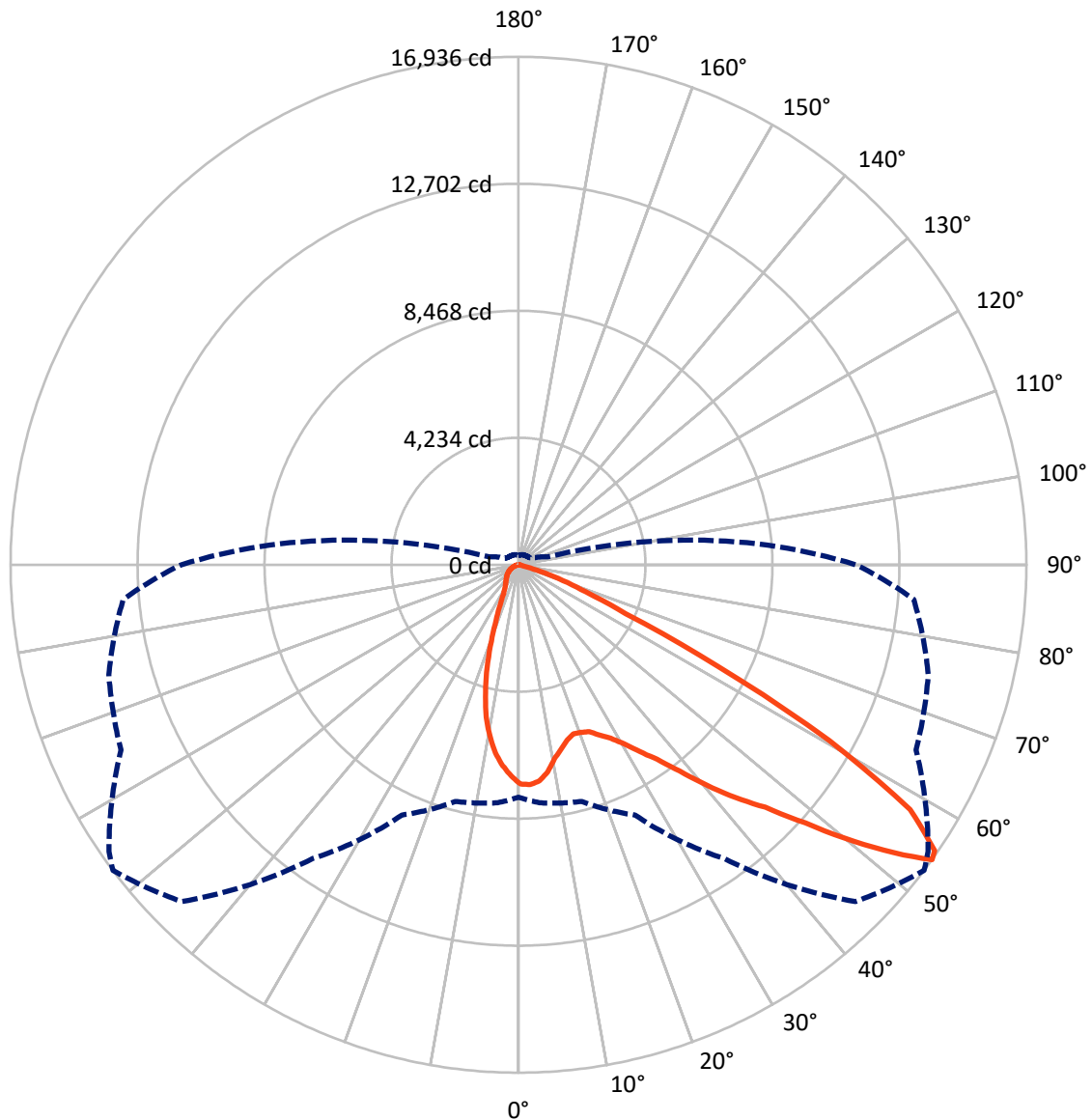
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

REPORT NUMBER: P652109
CATALOG NUMBER: GALN-SA9A-840-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P652109
 CATALOG NUMBER: GALN-SA9A-840-U-SL2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3367.2	0.0	3367.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16984.2	0.0	16984.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	20351.4	0.0	20351.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.2	3.1
10°-20°	1437.9	7.1
20°-30°	2043.6	10.0
30°-40°	3153.8	15.5
40°-50°	4944.8	24.3
50°-60°	5744.1	28.2
60°-70°	2170.5	10.7
70°-80°	206.4	1.0
80°-90°	23.2	0.1
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°	20351.4	100.0
0°-180°	20351.4	100.0

Coefficient of Utilization



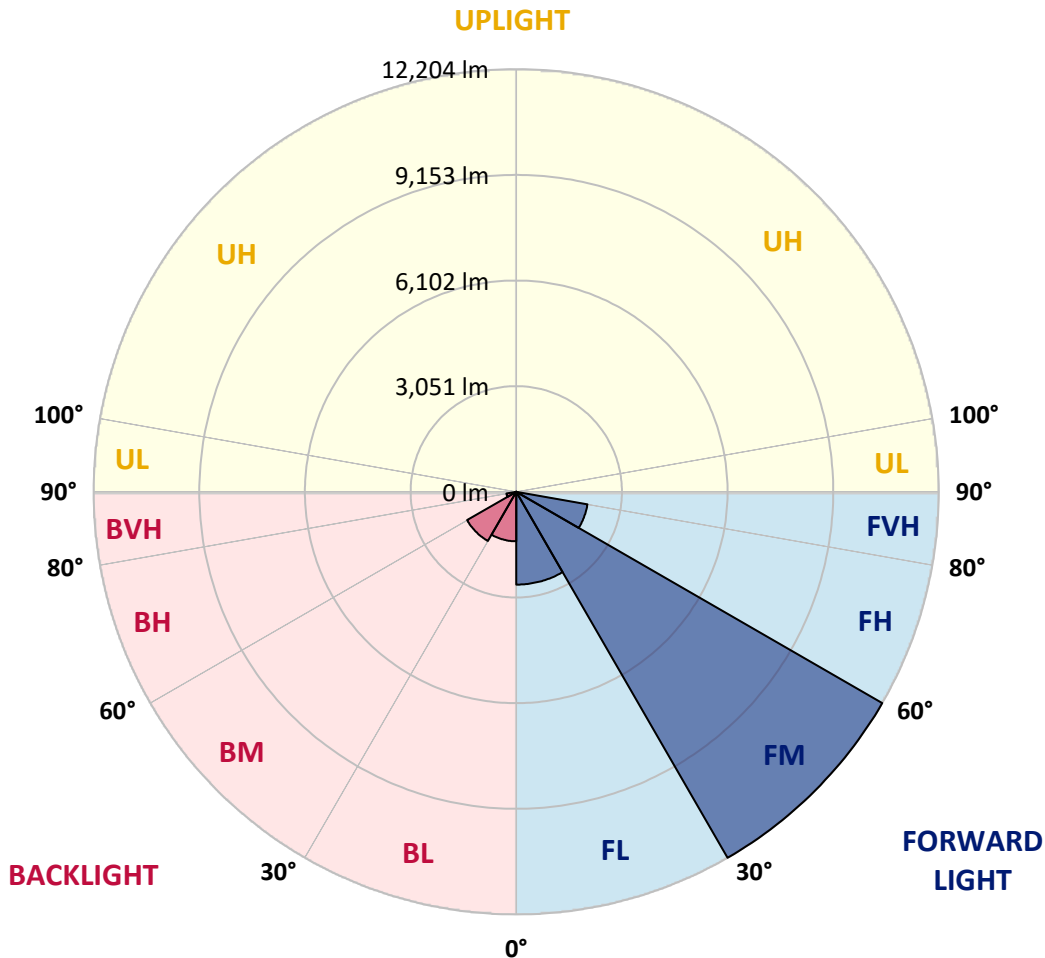
REPORT NUMBER: P652109
 CATALOG NUMBER: GALN-SA9A-840-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2679.7	13.2			
FM (30°-60°)	12204.1	60.0			
FH (60°-80°)	2088.4	10.3			G2/5000
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1428.9	7.0	B3/2500		
BM (30°-60°)	1638.6	8.1	B2/2500		
BH (60°-80°)	288.5	1.4	B1/500		G1/500
BVH (80°-90°)	11.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P652109

CATALOG NUMBER: GALN-SA9A-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9
2.5°	7272.0	7207.5	7272.0	7279.5	7325.0	7366.7	7340.2	7400.9	7366.7	7328.8	7317.5
5°	6684.3	6771.5	6775.3	6911.8	6881.4	7131.7	7241.6	7211.3	7397.1	7385.7	7359.2
7.5°	6157.3	6123.2	6168.7	6327.9	6528.9	6817.0	6976.2	6972.4	7237.8	7427.4	7408.5
10°	5668.2	5664.4	5759.2	5884.3	6054.9	6358.2	6578.1	6688.1	7101.3	7389.4	7431.2
12.5°	5338.3	5323.2	5425.5	5527.9	5797.1	6032.2	6312.7	6365.8	6839.8	7256.8	7325.0
15°	5122.2	5156.3	5163.9	5361.0	5531.7	5842.6	6062.5	6172.4	6718.4	7150.6	7412.2
17.5°	5084.3	5129.8	5133.5	5296.6	5478.6	5740.2	5933.6	6081.4	6616.1	7203.7	7416.0
20°	5160.1	5133.5	5156.3	5258.7	5436.9	5687.1	5967.7	6017.0	6581.9	7230.2	7457.7
22.5°	5376.3	5368.7	5311.8	5395.2	5520.3	5782.0	6047.3	6123.2	6680.5	7366.7	7491.9
25°	5615.1	5656.8	5603.8	5592.3	5679.5	5937.4	6290.0	6388.6	7010.3	7613.2	7598.0
27.5°	6062.5	6020.8	6020.8	5967.7	5944.9	6070.1	6551.6	6714.6	7378.1	7931.6	7719.4
30°	6490.9	6536.4	6502.3	6521.3	6369.6	6358.2	6923.1	7124.1	8030.2	8417.0	7977.1
32.5°	7169.6	7108.9	7165.8	7116.5	6915.5	6710.8	7427.4	7635.9	8818.8	8974.3	8363.9
35°	7734.5	7707.9	7950.6	7943.0	7616.9	7416.0	7962.0	8272.9	9368.6	9641.6	8818.8
37.5°	8538.3	8489.0	8765.7	8898.5	8606.5	8307.0	8727.9	9088.0	9880.5	10176.2	9285.2
40°	9364.8	9489.9	9861.5	10081.4	9770.5	9372.4	9664.4	9774.3	10221.7	10525.0	9603.7
42.5°	10411.2	10593.2	10972.4	11161.9	11135.4	10703.2	10616.0	10612.2	10468.1	10426.4	9838.8
45°	11416.0	11347.7	11931.6	12344.9	12678.5	12553.4	11533.5	11419.8	10858.7	10574.3	9899.4
47.5°	11855.7	11833.0	12231.2	12966.7	14104.1	14259.6	12868.1	12428.3	11518.3	11196.1	10229.3
50°	11287.1	11404.6	11798.9	12614.1	14358.1	15544.9	14506.0	13914.5	12288.0	11954.4	11010.3
52.5°	9429.3	9508.9	9884.3	10919.3	13493.7	16303.1	16075.6	15734.4	13702.2	13148.7	12371.4
54°	7753.4	7965.8	8170.5	9209.4	11954.4	15882.3	16936.3	16674.7	14623.6	14142.0	13228.3
55°	6752.6	6877.6	7025.5	8060.6	10888.9	15169.5	16837.7	16860.5	15241.5	14452.9	13804.6
57.5°	4932.6	5019.8	4868.2	5327.0	7476.7	12318.3	15400.7	16015.0	16075.6	14919.3	14157.1
60°	3768.7	3806.6	3636.0	3708.1	4648.3	8454.9	11912.7	12652.0	14502.2	13038.7	11992.2
62.5°	2923.1	2930.8	2927.0	3052.1	3203.8	4974.3	7450.2	8106.1	9998.0	9258.7	8144.0
65°	2153.5	2119.4	2180.0	2559.2	2733.6	3127.9	3924.1	4401.9	5433.1	4587.7	3279.6
67.5°	1395.2	1406.7	1467.3	1903.3	2343.1	2400.0	2415.1	2377.3	2381.0	1311.8	822.8
70°	837.9	856.9	837.9	1076.7	1675.8	1721.3	1573.4	1535.5	1198.1	310.9	307.1
72.5°	496.7	470.1	420.8	462.6	697.6	834.1	750.7	746.9	470.1	182.0	182.0
75°	208.6	189.6	155.4	140.3	185.8	178.2	178.2	159.2	125.1	121.4	113.7
77.5°	41.7	41.7	30.4	34.1	45.5	53.1	64.4	64.4	75.9	75.9	72.1
80°	0.0	3.8	11.4	22.7	34.1	49.3	56.9	56.9	64.4	64.4	53.1
82.5°	0.0	3.8	11.4	22.7	30.4	45.5	56.9	56.9	64.4	68.2	56.9
85°	0.0	3.8	11.4	18.9	30.4	37.9	37.9	34.1	26.6	22.7	15.1
87.5°	0.0	0.0	3.8	7.6	3.8	7.6	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652109

CATALOG NUMBER: GALN-SA9A-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9	7309.9
2.5°	7343.9	7340.2	7249.2	7101.3	7067.2	6942.1	6926.9	6851.1	6892.8	6752.6	6737.3
5°	7283.3	7237.8	7127.9	7033.1	6756.3	6559.1	6403.7	6214.1	6104.2	6123.2	6051.1
7.5°	7370.5	7253.0	7059.6	6729.8	6392.4	6047.3	5861.5	5474.8	5334.5	5126.0	5095.7
10°	7279.5	7192.3	6892.8	6346.9	5880.5	5383.8	4947.8	4519.4	4193.3	4053.0	4022.7
12.5°	7272.0	7120.3	6619.8	6013.2	5338.3	4625.5	3992.4	3457.8	3135.5	2953.5	2911.8
15°	7154.4	6972.4	6312.7	5497.5	4564.9	3677.7	2987.7	2472.0	2225.5	2119.4	2149.8
17.5°	7165.8	6892.8	6005.6	4951.6	3802.8	2699.5	2039.8	1774.4	1709.9	1736.5	1736.5
20°	7154.4	6714.6	5634.0	4322.2	2911.8	1873.0	1497.7	1402.8	1444.5	1527.9	1509.0
22.5°	7093.8	6631.2	5292.8	3658.7	2142.2	1387.6	1201.9	1205.7	1270.2	1372.5	1395.2
25°	7139.2	6445.4	4860.6	2987.7	1562.1	1107.1	1042.7	1069.2	1137.5	1213.2	1228.4
27.5°	7105.1	6312.7	4409.4	2320.3	1141.2	951.7	947.9	978.2	1008.5	1065.4	1065.4
30°	7143.0	6191.4	3965.8	1725.1	940.2	872.0	856.9	879.6	910.0	921.3	917.5
32.5°	7283.3	6100.4	3454.0	1289.1	830.3	796.2	796.2	796.2	792.4	807.6	811.4
35°	7590.4	6115.6	3002.8	997.2	758.2	731.8	720.4	705.2	697.6	705.2	709.0
37.5°	7924.1	6108.0	2536.5	849.2	705.2	682.5	655.9	633.2	629.4	637.0	625.6
40°	8071.9	6180.0	2104.3	762.1	655.9	629.4	587.7	568.7	572.5	580.1	572.5
42.5°	8272.9	6202.8	1823.7	693.8	610.4	568.7	542.2	519.4	515.6	527.0	523.2
45°	8269.1	6073.9	1527.9	655.9	568.7	523.2	489.1	470.1	470.1	477.7	481.5
47.5°	8511.8	6054.9	1311.8	621.8	538.4	492.9	451.2	436.0	432.2	432.2	424.6
50°	9076.7	6320.3	1145.0	583.9	500.5	458.8	424.6	405.7	390.5	382.9	379.1
52.5°	10180.0	7146.8	1016.1	538.4	458.8	424.6	394.3	379.1	360.2	341.2	337.4
54°	11249.1	7999.9	1008.5	500.5	424.6	401.9	375.3	367.8	345.0	318.5	310.9
55°	11730.7	8496.5	1035.0	470.1	401.9	386.7	364.0	356.4	333.6	303.3	299.6
57.5°	12128.7	8690.0	1019.9	390.5	364.0	360.2	341.2	329.8	303.3	261.6	254.1
60°	9762.9	6570.6	731.8	345.0	333.6	326.1	310.9	303.3	269.2	223.7	219.9
62.5°	6168.7	3780.0	466.3	303.3	291.9	280.6	261.6	254.1	223.7	178.2	166.9
65°	2627.5	1565.9	314.7	269.2	250.2	231.3	216.1	204.7	178.2	132.7	128.9
67.5°	682.5	557.3	261.6	235.1	208.6	182.0	170.6	151.6	121.4	91.0	87.2
70°	307.1	280.6	219.9	197.1	166.9	140.3	125.1	106.1	79.6	60.6	56.9
72.5°	182.0	178.2	166.9	147.8	125.1	106.1	91.0	72.1	53.1	34.1	34.1
75°	113.7	109.9	113.7	102.3	87.2	79.6	68.2	49.3	30.4	15.1	15.1
77.5°	68.2	68.2	68.2	64.4	60.6	60.6	49.3	30.4	15.1	3.8	3.8
80°	53.1	53.1	56.9	53.1	53.1	53.1	41.7	22.7	7.6	0.0	0.0
82.5°	53.1	56.9	64.4	60.6	53.1	45.5	37.9	22.7	7.6	0.0	0.0
85°	15.1	11.4	18.9	26.6	37.9	34.1	26.6	18.9	7.6	0.0	0.0
87.5°	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8	3.8	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)