

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: P459480

Luminaire Tested: **GALN-SA9B-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39527 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

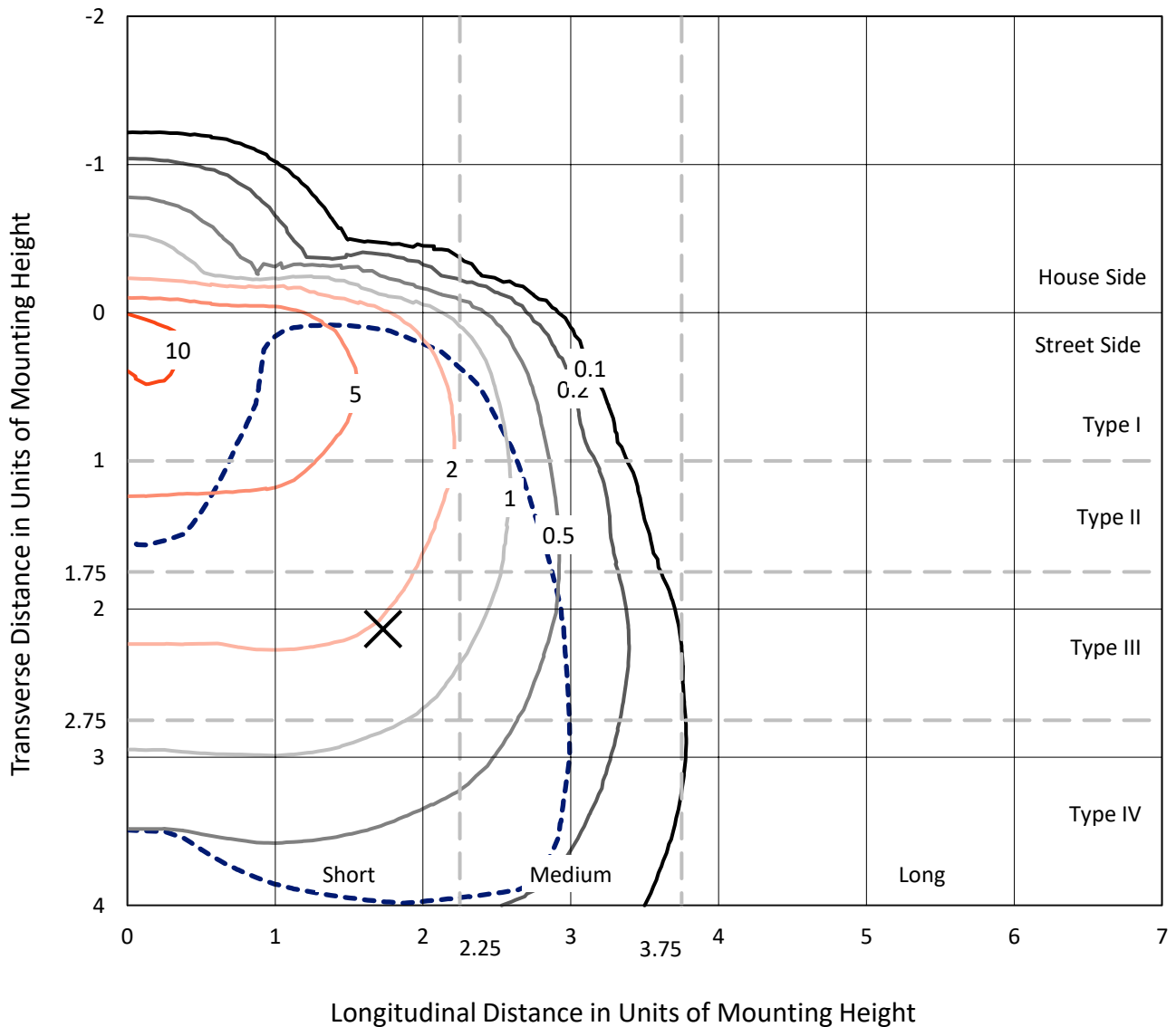
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459480
 CATALOG NUMBER: GALN-SA9B-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

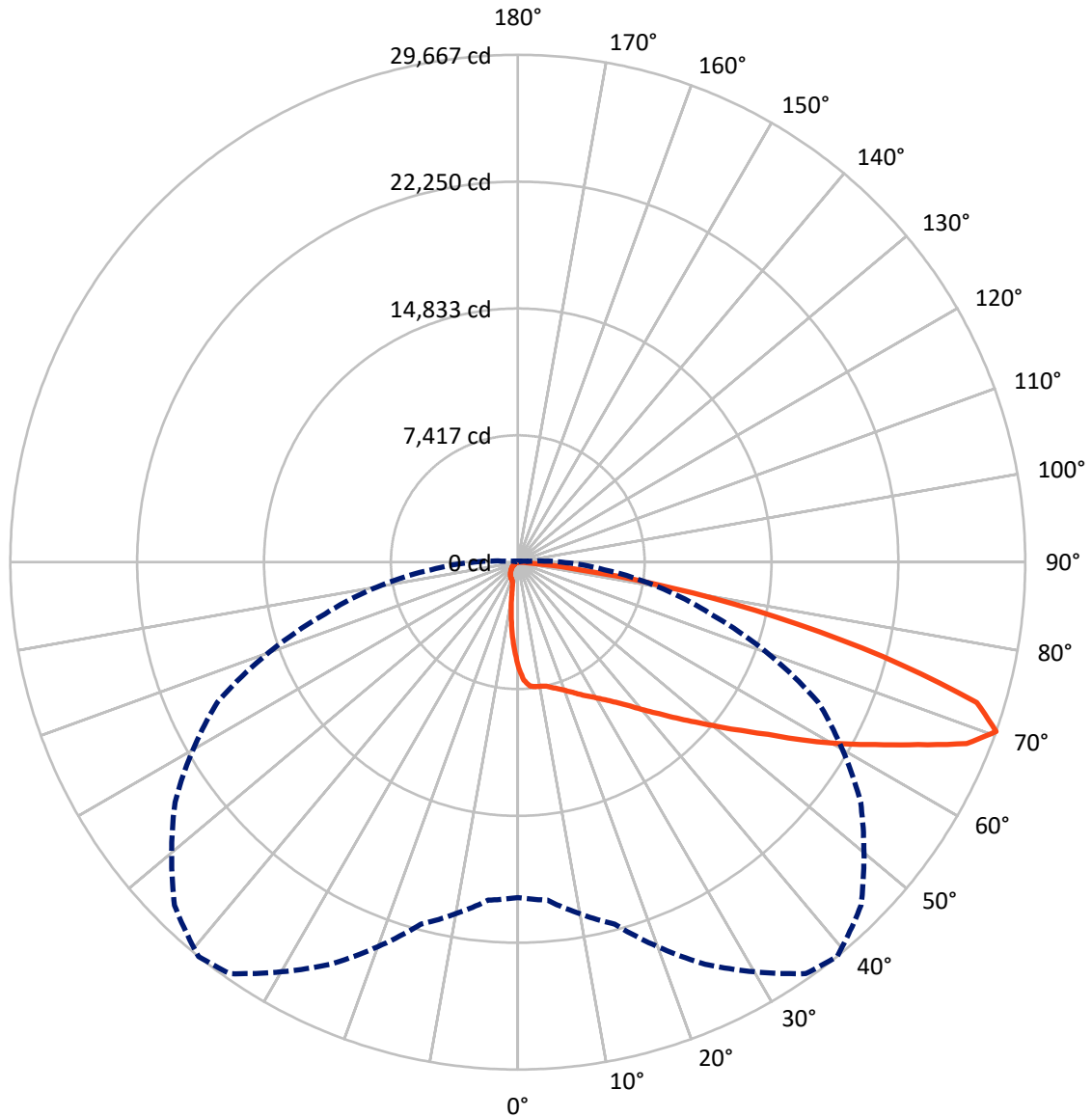
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P459480
CATALOG NUMBER: GALN-SA9B-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P459480

CATALOG NUMBER: GALN-SA9B-735-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2577.3	0.0	2577.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	36949.6	0.0	36949.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	39527.0	0.0	39527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.1	1.3
10°-20°	1367.0	3.5
20°-30°	2290.2	5.8
30°-40°	3551.8	9.0
40°-50°	5628.5	14.2
50°-60°	8250.6	20.9
60°-70°	10575.3	26.8
70°-80°	6645.2	16.8
80°-90°	692.3	1.8
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°	39527.0	100.0
0°-180°	39527.0	100.0

Coefficient of Utilization

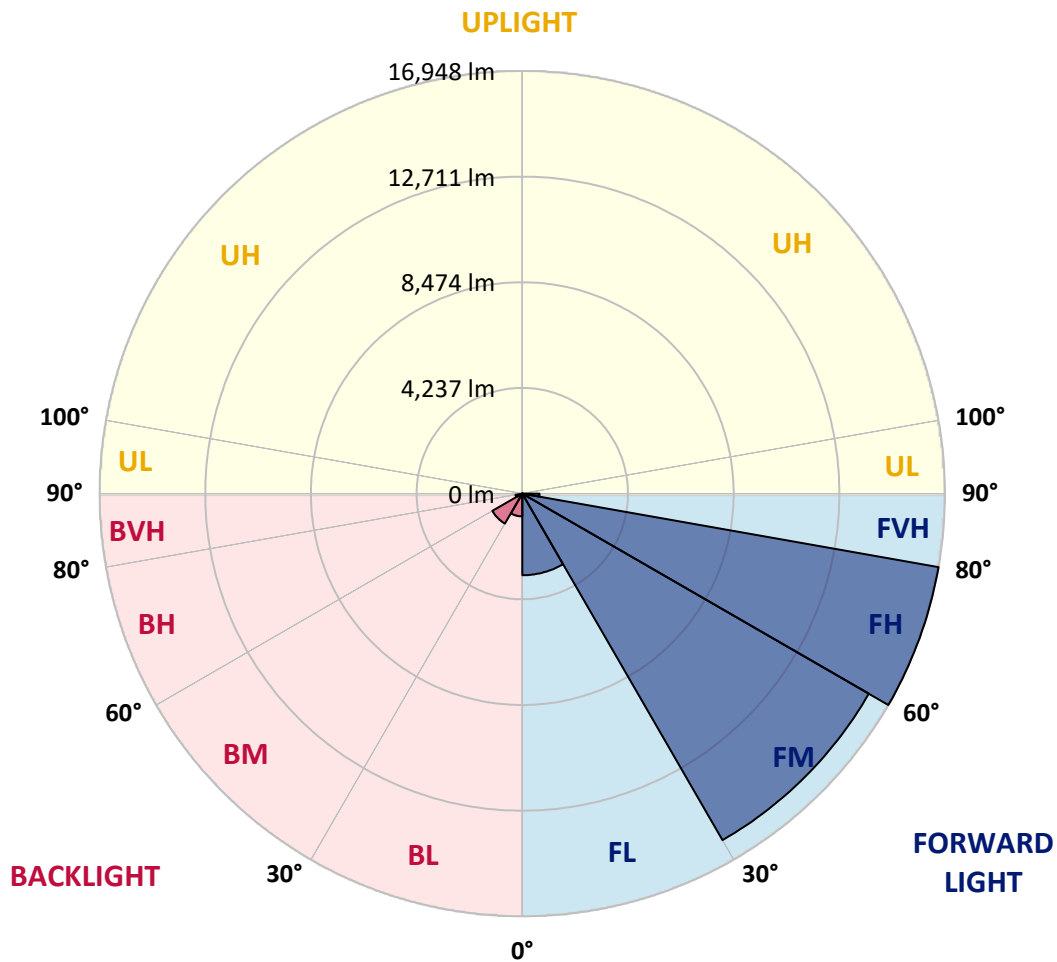


REPORT NUMBER: P459480
 CATALOG NUMBER: GALN-SA9B-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3270.7	8.3			
FM (30°-60°)	16043.9	40.6			
FH (60°-80°)	16947.9	42.9			G5
FVH (80°-90°)	687.2	1.7			G4/750
BL (0°-30°)	912.6	2.3	B2/1000		
BM (30°-60°)	1387.0	3.5	B2/2500		
BH (60°-80°)	272.6	0.7	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





REPORT NUMBER: P459480

CATALOG NUMBER: GALN-SA9B-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6
2.5°	7126.4	7102.5	7070.7	7033.5	6927.2	6908.6	6844.9	6709.4	6547.4	6414.6	6231.3
5°	7463.8	7477.0	7453.1	7386.7	7309.7	7264.6	7184.9	6975.0	6765.2	6496.9	6196.8
7.5°	7540.8	7567.4	7538.1	7474.4	7400.0	7352.2	7288.5	7107.8	6863.5	6558.0	6146.3
10°	7532.8	7564.7	7546.1	7487.7	7426.6	7381.4	7312.4	7168.9	6972.4	6651.0	6162.3
12.5°	7519.5	7562.0	7559.4	7530.2	7479.7	7445.2	7402.7	7275.2	7091.9	6786.4	6249.9
15°	7482.4	7535.5	7583.3	7607.2	7609.9	7609.9	7556.7	7421.3	7246.0	6964.4	6364.1
17.5°	7498.3	7559.4	7678.9	7748.0	7795.8	7790.5	7734.7	7588.6	7394.7	7147.7	6483.6
20°	7596.6	7678.9	7846.3	7984.4	8032.2	8016.2	7941.9	7771.9	7551.4	7304.4	6600.5
22.5°	7838.3	7912.7	8122.5	8284.5	8319.0	8276.5	8170.3	7939.2	7740.0	7474.4	6741.3
25°	8199.5	8287.2	8481.1	8603.3	8603.3	8579.3	8430.6	8159.7	7952.5	7710.8	6924.6
27.5°	8637.8	8712.2	8903.4	9012.3	8948.6	8879.5	8730.7	8404.0	8204.8	8008.3	7145.0
30°	9081.4	9129.2	9331.0	9378.8	9312.4	9224.8	9065.4	8738.7	8563.4	8412.0	7463.8
32.5°	9501.0	9604.6	9772.0	9761.3	9671.0	9628.5	9482.4	9134.5	9036.2	9020.3	7910.0
35°	9920.7	10000.4	10149.1	10186.3	10106.6	10098.7	9992.4	9734.8	9737.4	9841.0	8605.9
37.5°	10281.9	10353.7	10529.0	10611.3	10627.2	10667.1	10624.6	10454.6	10696.3	10980.5	9527.6
40°	10584.7	10685.7	10908.8	11052.2	11216.9	11363.0	11371.0	11408.1	11894.2	12382.9	10730.8
42.5°	10821.1	10961.9	11286.0	11551.6	11928.7	12114.7	12263.4	12467.9	13286.0	14016.5	12149.2
45°	11129.2	11291.3	11695.0	12112.0	12701.7	13007.1	13214.3	13761.5	14922.2	15918.3	13604.8
47.5°	11639.2	11724.2	12135.9	12744.2	13519.8	13955.4	14359.1	15187.8	16677.9	17570.4	14816.0
50°	12295.3	12351.1	12661.8	13506.5	14510.5	15084.2	15820.0	16794.8	18500.0	18941.0	15501.3
52.5°	13020.4	13039.0	13272.8	14345.8	15620.8	16343.3	17166.7	18369.9	19984.8	19918.4	15955.5
55°	13862.4	13835.9	14035.1	15256.9	16935.6	17761.6	18720.5	19982.2	21273.1	20611.7	16215.8
57.5°	14826.6	14754.9	14948.8	16465.4	18619.6	19607.7	20582.5	21374.0	22271.8	21193.4	16340.6
60°	15835.9	15692.5	15923.6	17822.7	20603.7	21541.3	22351.5	22563.9	23323.6	21655.5	16125.5
62.5°	16640.7	16643.4	17073.7	19267.7	22643.6	23464.4	23894.7	24085.9	24229.4	21554.6	14993.9
65°	17897.1	17939.6	18627.5	21273.1	25004.9	25716.8	26011.6	25390.1	24269.2	20300.9	13294.0
67.5°	19193.3	19328.8	20587.8	24035.5	27732.8	28306.5	27926.7	25642.4	23185.5	17440.2	10080.1
70°	19615.6	19838.7	21913.2	25937.3	29369.0	29666.5	28380.9	24465.7	19381.9	11660.5	5073.2
72.5°	17974.1	18335.4	21150.9	25244.0	28325.1	28067.5	25392.7	20518.7	12321.9	4427.8	1548.5
75°	12675.1	12834.5	17578.4	20941.0	22781.8	22051.3	19315.5	13227.6	5067.9	1243.1	531.2
77.5°	6544.7	6467.7	10454.6	13894.3	16247.6	15490.6	12648.6	6847.5	1920.4	517.9	329.4
80°	3383.9	3439.7	4523.4	7280.5	9918.0	9126.5	6744.0	3174.1	1022.6	286.9	252.3
82.5°	1896.5	1779.6	2600.4	3179.4	4637.6	3636.3	2587.1	2247.1	446.2	172.6	239.1
85°	345.3	361.2	1426.3	1718.5	1609.6	1022.6	834.0	1500.7	130.2	95.6	167.3
87.5°	5.3	5.3	276.2	494.0	313.4	143.4	263.0	215.1	26.6	37.2	29.2
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: P459480

CATALOG NUMBER: GALN-SA9B-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6
2.5°	6138.4	6037.4	5848.8	5662.9	5426.5	5232.6	5102.5	4967.0	4828.9	4839.5	4871.4
5°	6032.1	5856.8	5484.9	5091.8	4714.7	4374.7	4040.0	3739.9	3617.7	3506.1	3511.4
7.5°	5925.9	5678.8	5134.3	4518.1	3947.0	3368.0	2948.3	2603.0	2419.7	2281.6	2241.8
10°	5878.0	5551.3	4812.9	3965.6	3155.5	2523.3	1984.1	1702.6	1484.8	1415.7	1434.3
12.5°	5899.3	5487.6	4523.4	3466.3	2502.1	1758.4	1381.2	1237.8	1190.0	1182.0	1176.7
15°	5939.1	5442.4	4239.2	2913.8	1838.1	1306.8	1160.7	1134.2	1128.9	1123.5	1126.2
17.5°	5992.3	5402.6	3936.4	2395.8	1410.4	1142.1	1099.6	1086.4	1083.7	1083.7	1083.7
20°	6045.4	5357.4	3599.1	1933.7	1176.7	1078.4	1051.8	1043.9	1041.2	1041.2	1038.6
22.5°	6106.5	5317.6	3256.4	1519.3	1083.7	1033.2	1009.3	1004.0	1001.4	998.7	998.7
25°	6194.1	5267.1	2892.5	1243.1	1025.3	990.7	966.8	961.5	958.9	948.2	950.9
27.5°	6311.0	5229.9	2518.0	1073.1	972.1	937.6	921.7	913.7	908.4	900.4	903.1
30°	6470.4	5198.1	2119.6	980.1	911.1	881.8	865.9	860.6	855.3	847.3	847.3
32.5°	6746.6	5211.4	1699.9	905.7	855.3	820.7	804.8	799.5	794.2	786.2	786.2
35°	7161.0	5288.4	1359.9	842.0	788.9	754.3	738.4	738.4	730.4	719.8	717.2
37.5°	7838.3	5484.9	1091.7	780.9	725.1	693.3	674.7	669.3	661.4	645.4	642.8
40°	8637.8	5790.4	919.0	719.8	666.7	634.8	618.9	602.9	581.7	565.8	563.1
42.5°	9641.8	6103.8	796.8	658.7	610.9	581.7	563.1	536.5	504.7	483.4	480.8
45°	10688.3	6390.7	714.5	602.9	557.8	533.9	512.6	470.1	430.3	403.7	401.1
47.5°	11469.2	6443.8	648.1	549.8	512.6	488.7	459.5	406.4	353.3	329.4	321.4
50°	11838.4	6186.2	579.0	496.7	467.5	440.9	403.7	342.6	284.2	255.0	249.7
52.5°	11968.6	5739.9	523.3	448.9	422.3	390.5	345.3	276.2	223.1	193.9	191.2
55°	11915.5	5176.8	472.8	403.7	369.2	332.0	286.9	220.5	164.7	140.8	135.5
57.5°	11636.6	4459.7	422.3	358.6	316.1	278.9	228.4	164.7	111.6	90.3	87.7
60°	10884.9	3482.2	371.9	308.1	268.3	228.4	180.6	116.9	69.1	50.5	50.5
62.5°	9615.2	2584.4	324.0	257.6	225.8	183.3	127.5	74.4	37.2	26.6	23.9
65°	8034.8	1907.1	270.9	217.8	188.6	143.4	90.3	45.2	18.6	8.0	5.3
67.5°	5607.1	1176.7	225.8	178.0	154.1	103.6	55.8	18.6	8.0	0.0	0.0
70°	2547.2	560.4	172.6	135.5	116.9	74.4	29.2	10.6	5.3	0.0	0.0
72.5°	791.5	294.8	122.2	98.3	79.7	47.8	15.9	8.0	5.3	0.0	0.0
75°	366.5	188.6	77.0	53.1	45.2	23.9	10.6	5.3	2.7	0.0	0.0
77.5°	273.6	146.1	45.2	29.2	23.9	15.9	8.0	5.3	2.7	0.0	0.0
80°	239.1	74.4	26.6	18.6	13.3	10.6	5.3	2.7	0.0	0.0	0.0
82.5°	215.1	37.2	15.9	10.6	8.0	5.3	2.7	2.7	0.0	0.0	0.0
85°	116.9	21.2	10.6	8.0	5.3	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	21.2	10.6	8.0	5.3	5.3	2.7	2.7	2.7	0.0	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)