

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: P457073

Luminaire Tested: **GALN-SA8B-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457073
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-SA8B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 27784 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

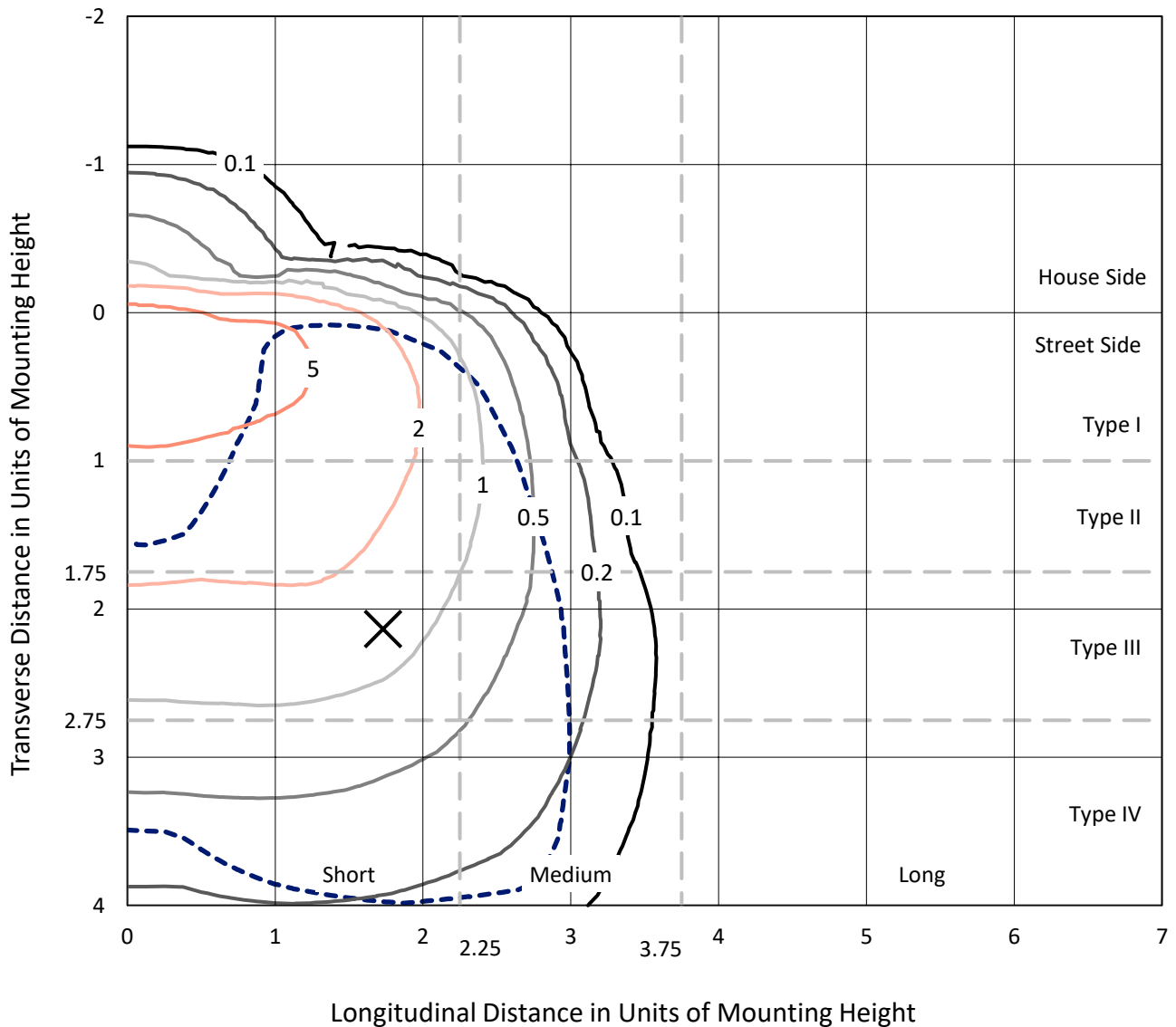
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457073
 CATALOG NUMBER: GALN-SA8B-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

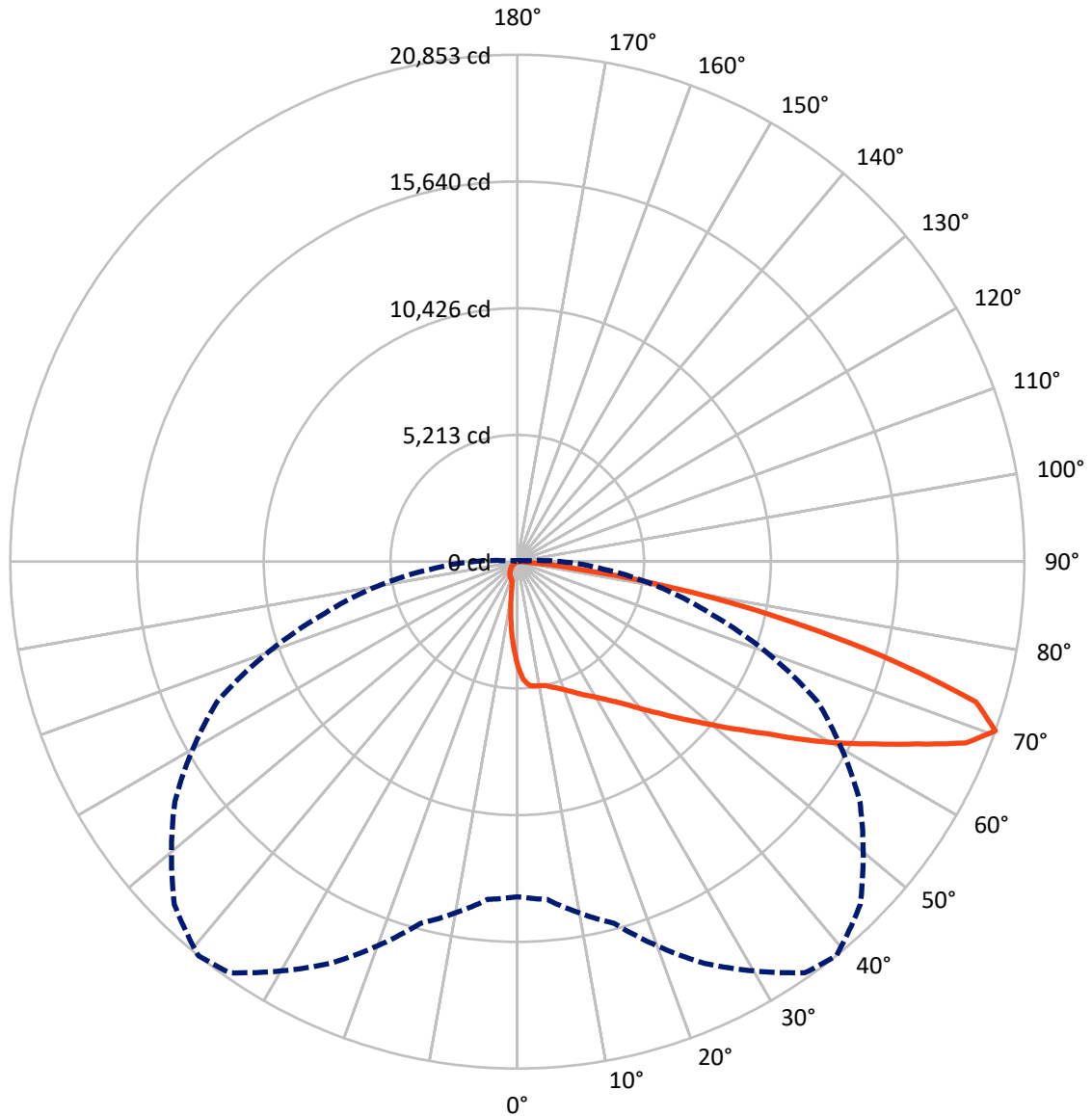
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P457073
CATALOG NUMBER: GALN-SA8B-827-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457073

CATALOG NUMBER: GALN-SA8B-827-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1811.6	0.0	1811.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25972.4	0.0	25972.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	27784.0	0.0	27784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	1.3
10°-20°	960.9	3.5
20°-30°	1609.8	5.8
30°-40°	2496.6	9.0
40°-50°	3956.4	14.2
50°-60°	5799.5	20.9
60°-70°	7433.5	26.8
70°-80°	4671.0	16.8
80°-90°	486.6	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°	27784.0	100.0
0°-180°	27784.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457073

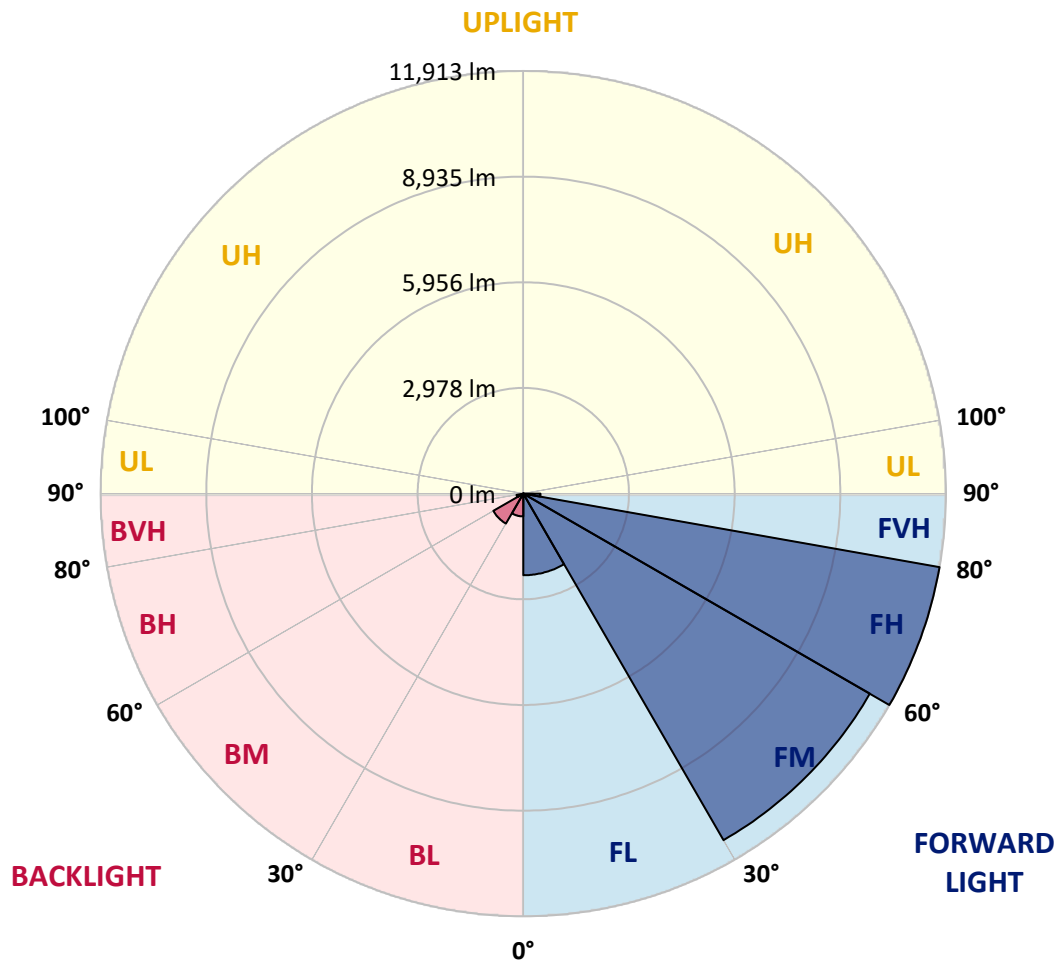
CATALOG NUMBER: GALN-SA8B-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2299.0	8.3			
FM	(30°-60°)	11277.5	40.6			
FH	(60°-80°)	11912.9	42.9			G4/12000
FVH	(80°-90°)	483.0	1.7			G3/500
BL	(0°-30°)	641.5	2.3	B2/1000		
BM	(30°-60°)	975.0	3.5	B1/1000		
BH	(60°-80°)	191.6	0.7	B1/500		G1/500
BVH	(80°-90°)	3.6	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-G4

Type IV Short





REPORT NUMBER: P457073

CATALOG NUMBER: GALN-SA8B-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	5009.3	4992.5	4970.0	4943.9	4869.2	4856.2	4811.4	4716.1	4602.2	4508.9	4380.1
5°	5246.4	5255.7	5238.9	5192.2	5138.1	5106.3	5050.3	4902.8	4755.3	4566.8	4355.8
7.5°	5300.5	5319.2	5298.6	5253.8	5201.6	5168.0	5123.1	4996.2	4824.4	4609.7	4320.3
10°	5294.9	5317.3	5304.2	5263.2	5220.2	5188.5	5139.9	5039.1	4901.0	4675.1	4331.5
12.5°	5285.6	5315.5	5313.6	5293.0	5257.6	5233.3	5203.4	5113.8	4985.0	4770.3	4393.1
15°	5259.4	5296.8	5330.4	5347.2	5349.1	5349.1	5311.7	5216.5	5093.3	4895.4	4473.4
17.5°	5270.6	5313.6	5397.6	5446.1	5479.7	5476.0	5436.8	5334.1	5197.8	5024.2	4557.4
20°	5339.7	5397.6	5515.2	5612.3	5645.9	5634.7	5582.4	5462.9	5308.0	5134.3	4639.6
22.5°	5509.6	5561.9	5709.4	5823.3	5847.6	5817.7	5743.0	5580.6	5440.5	5253.8	4738.5
25°	5763.5	5825.2	5961.4	6047.3	6047.3	6030.5	5926.0	5735.5	5589.9	5420.0	4867.4
27.5°	6071.6	6123.9	6258.3	6334.9	6290.0	6241.5	6136.9	5907.3	5767.3	5629.1	5022.3
30°	6383.4	6417.0	6558.9	6592.5	6545.8	6484.2	6372.2	6142.5	6019.3	5912.9	5246.4
32.5°	6678.4	6751.2	6868.8	6861.4	6797.9	6768.0	6665.3	6420.7	6351.7	6340.5	5560.0
35°	6973.4	7029.4	7133.9	7160.1	7104.1	7098.5	7023.8	6842.7	6844.6	6917.4	6049.2
37.5°	7227.3	7277.7	7400.9	7458.8	7470.0	7498.0	7468.1	7348.7	7518.6	7718.3	6697.1
40°	7440.1	7511.1	7667.9	7768.7	7884.5	7987.2	7992.8	8018.9	8360.6	8704.1	7542.8
42.5°	7606.3	7705.3	7933.0	8119.7	8384.9	8515.6	8620.1	8763.9	9338.9	9852.3	8539.8
45°	7822.9	7936.8	8220.6	8513.7	8928.2	9142.9	9288.5	9673.1	10489.0	11189.1	9563.0
47.5°	8181.4	8241.1	8530.5	8958.0	9503.2	9809.4	10093.2	10675.7	11723.1	12350.4	10414.3
50°	8642.5	8681.7	8900.2	9493.9	10199.6	10602.9	11120.1	11805.3	13003.9	13313.8	10896.0
52.5°	9152.2	9165.3	9329.6	10083.9	10980.0	11487.9	12066.7	12912.4	14047.6	14000.9	11215.3
55°	9744.1	9725.4	9865.4	10724.3	11904.2	12484.9	13158.9	14045.7	14953.1	14488.2	11398.3
57.5°	10421.8	10371.4	10507.7	11573.8	13087.9	13782.5	14467.7	15024.0	15655.1	14897.1	11486.0
60°	11131.3	11030.4	11192.9	12527.8	14482.6	15141.7	15711.1	15860.5	16394.4	15221.9	11334.8
62.5°	11697.0	11698.8	12001.3	13543.5	15916.5	16493.4	16795.9	16930.3	17031.1	15151.0	10539.4
65°	12580.1	12610.0	13093.5	14953.1	17576.3	18076.6	18283.9	17847.0	17059.1	14269.8	9344.5
67.5°	13491.2	13586.4	14471.4	16894.8	19493.7	19897.0	19630.0	18024.4	16297.4	12259.0	7085.4
70°	13788.1	13944.9	15403.0	18231.6	20643.8	20852.9	19949.3	17197.3	13623.8	8196.3	3566.0
72.5°	12634.2	12888.1	14867.2	17744.3	19910.1	19729.0	17848.9	14422.9	8661.2	3112.3	1088.5
75°	8909.5	9021.5	12356.0	14719.7	16013.6	15500.1	13577.1	9297.8	3562.3	873.8	373.4
77.5°	4600.4	4546.2	7348.7	9766.5	11420.7	10888.6	8890.8	4813.2	1349.9	364.1	231.5
80°	2378.6	2417.8	3179.6	5117.5	6971.5	6415.1	4740.4	2231.1	718.8	201.6	177.4
82.5°	1333.1	1250.9	1827.8	2234.8	3259.8	2556.0	1818.5	1579.5	313.7	121.4	168.0
85°	242.7	253.9	1002.6	1208.0	1131.4	718.8	586.2	1054.9	91.5	67.2	117.6
87.5°	3.7	3.7	194.2	347.3	220.3	100.8	184.8	151.2	18.7	26.1	20.5
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: P457073
 CATALOG NUMBER: GALN-SA8B-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	4314.7	4243.8	4111.2	3980.5	3814.4	3678.1	3586.6	3491.4	3394.3	3401.7	3424.1
5°	4240.0	4116.8	3855.4	3579.1	3314.0	3075.0	2839.8	2628.8	2542.9	2464.5	2468.2
7.5°	4165.4	3991.7	3609.0	3175.8	2774.4	2367.4	2072.4	1829.7	1700.9	1603.8	1575.8
10°	4131.8	3902.1	3383.1	2787.5	2218.0	1773.7	1394.7	1196.8	1043.7	995.1	1008.2
12.5°	4146.7	3857.3	3179.6	2436.5	1758.7	1236.0	970.9	870.0	836.4	830.8	827.1
15°	4174.7	3825.6	2979.8	2048.1	1292.0	918.6	815.9	797.2	793.5	789.8	791.6
17.5°	4212.0	3797.6	2766.9	1684.1	991.4	802.8	773.0	763.6	761.8	761.8	761.8
20°	4249.4	3765.8	2529.8	1359.2	827.1	758.0	739.3	733.7	731.9	731.9	730.0
22.5°	4292.3	3737.8	2289.0	1067.9	761.8	726.3	709.5	705.7	703.9	702.0	702.0
25°	4353.9	3702.3	2033.2	873.8	720.7	696.4	679.6	675.9	674.0	666.5	668.4
27.5°	4436.1	3676.2	1769.9	754.3	683.3	659.1	647.9	642.3	638.5	632.9	634.8
30°	4548.1	3653.8	1489.9	688.9	640.4	619.9	608.7	604.9	601.2	595.6	595.6
32.5°	4742.3	3663.1	1194.9	636.7	601.2	576.9	565.7	562.0	558.2	552.6	552.6
35°	5033.5	3717.3	955.9	591.9	554.5	530.2	519.0	519.0	513.4	506.0	504.1
37.5°	5509.6	3855.4	767.4	548.9	509.7	487.3	474.2	470.5	464.9	453.7	451.8
40°	6071.6	4070.1	646.0	506.0	468.6	446.2	435.0	423.8	408.9	397.7	395.8
42.5°	6777.3	4290.4	560.1	463.0	429.4	408.9	395.8	377.1	354.7	339.8	337.9
45°	7513.0	4492.1	502.2	423.8	392.1	375.3	360.3	330.5	302.5	283.8	281.9
47.5°	8061.9	4529.4	455.6	386.5	360.3	343.5	323.0	285.7	248.3	231.5	225.9
50°	8321.4	4348.3	407.0	349.1	328.6	309.9	283.8	240.8	199.8	179.2	175.5
52.5°	8412.9	4034.7	367.8	315.5	296.9	274.5	242.7	194.2	156.8	136.3	134.4
55°	8375.5	3638.9	332.3	283.8	259.5	233.4	201.6	155.0	115.8	99.0	95.2
57.5°	8179.5	3134.8	296.9	252.0	222.2	196.0	160.6	115.8	78.4	63.5	61.6
60°	7651.1	2447.7	261.4	216.6	188.6	160.6	127.0	82.1	48.5	35.5	35.5
62.5°	6758.7	1816.6	227.8	181.1	158.7	128.8	89.6	52.3	26.1	18.7	16.8
65°	5647.8	1340.5	190.4	153.1	132.6	100.8	63.5	31.7	13.1	5.6	3.7
67.5°	3941.3	827.1	158.7	125.1	108.3	72.8	39.2	13.1	5.6	0.0	0.0
70°	1790.5	393.9	121.4	95.2	82.1	52.3	20.5	7.5	3.7	0.0	0.0
72.5°	556.4	207.2	85.9	69.1	56.0	33.6	11.2	5.6	3.7	0.0	0.0
75°	257.7	132.6	54.1	37.3	31.7	16.8	7.5	3.7	1.9	0.0	0.0
77.5°	192.3	102.7	31.7	20.5	16.8	11.2	5.6	3.7	1.9	0.0	0.0
80°	168.0	52.3	18.7	13.1	9.3	7.5	3.7	1.9	0.0	0.0	0.0
82.5°	151.2	26.1	11.2	7.5	5.6	3.7	1.9	1.9	0.0	0.0	0.0
85°	82.1	14.9	7.5	5.6	3.7	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	14.9	7.5	5.6	3.7	3.7	1.9	1.9	1.9	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)