

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: P459373

Luminaire Tested: **GALN-SA8B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34269 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

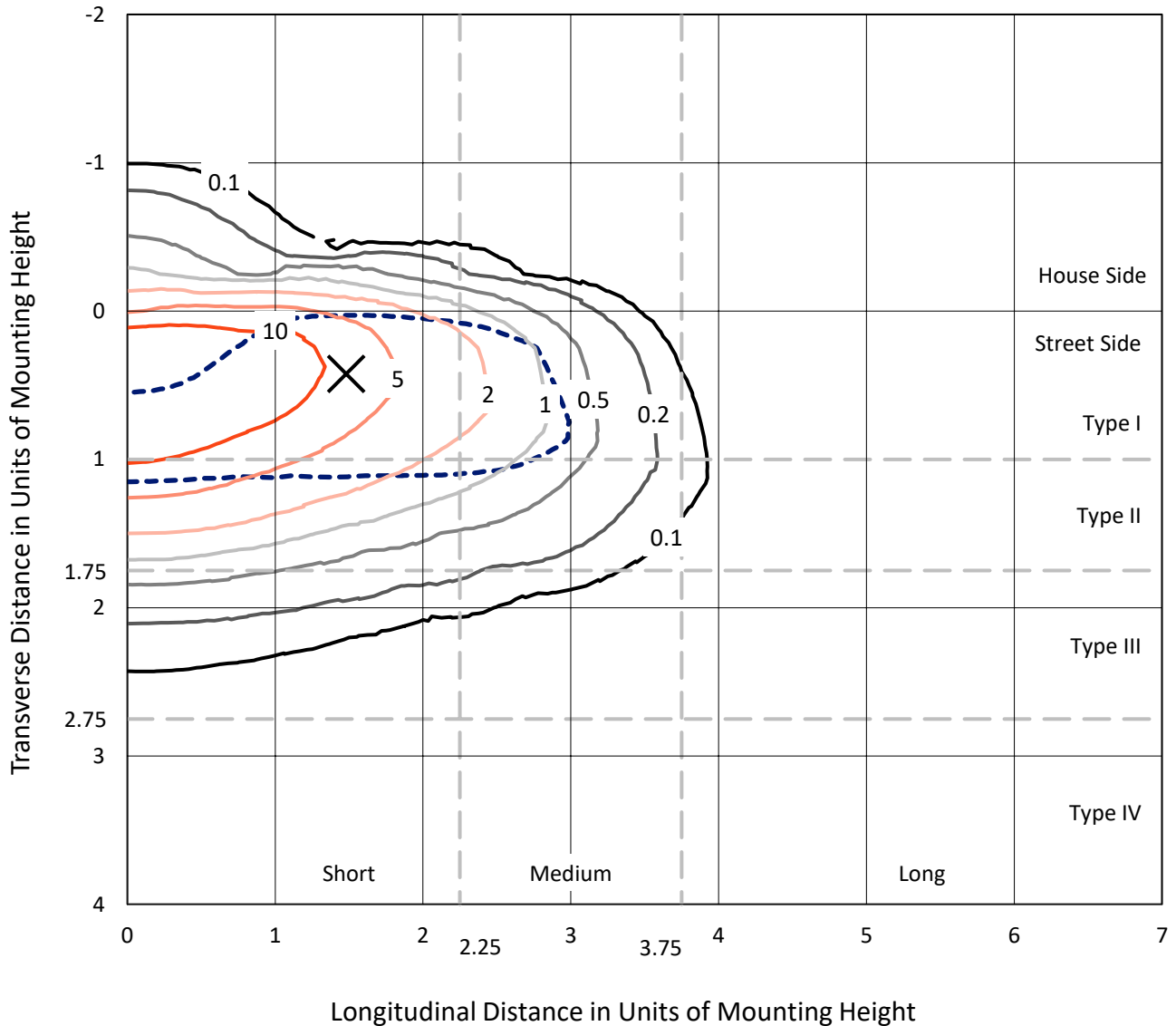
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459373
 CATALOG NUMBER: GALN-SA8B-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

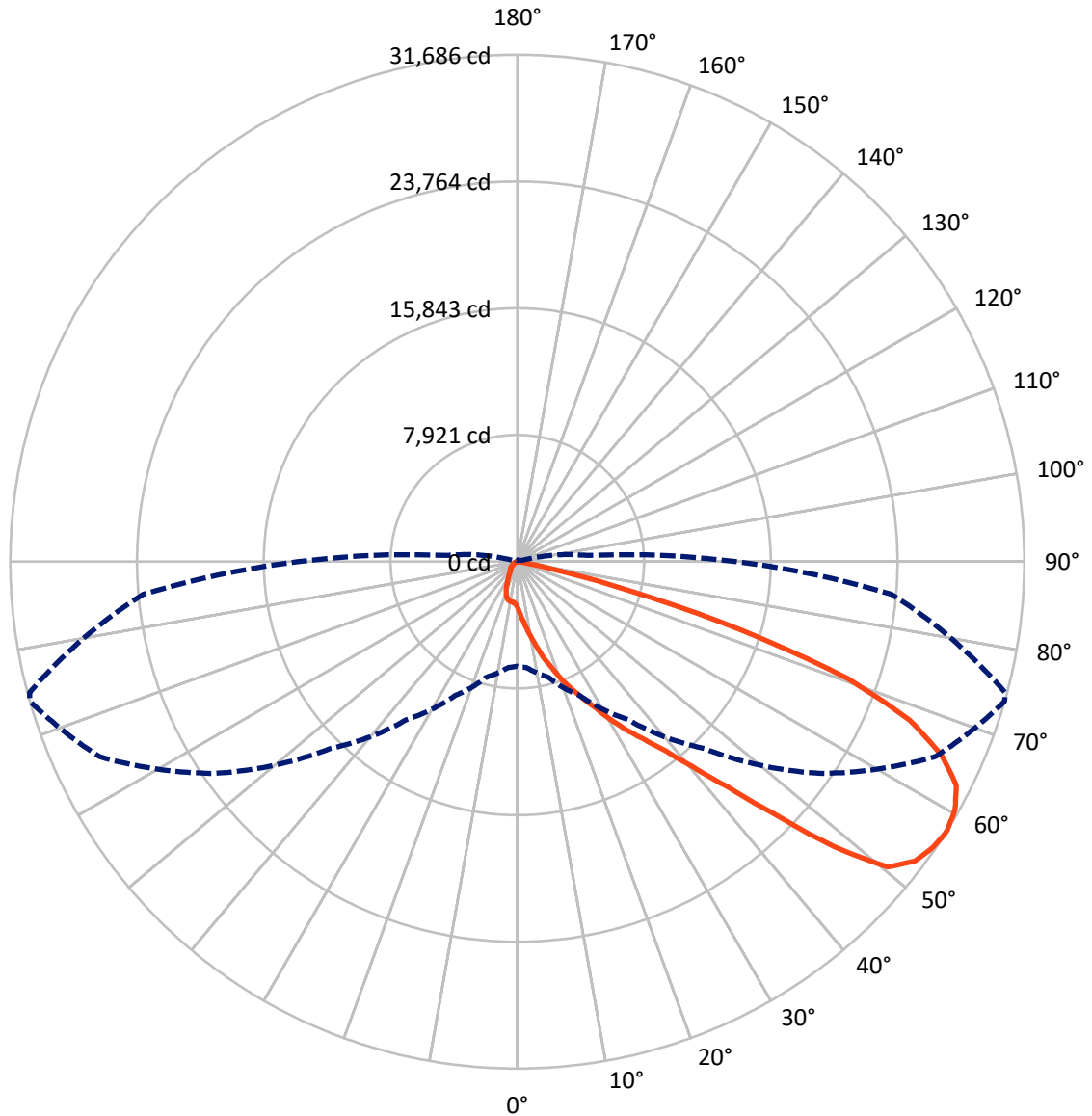
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

REPORT NUMBER: P459373
CATALOG NUMBER: GALN-SA8B-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P459373

CATALOG NUMBER: GALN-SA8B-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1976.5	0.0	1976.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	32292.5	0.0	32292.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	34269.0	0.0	34269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	1.0
10°-20°	1365.4	4.0
20°-30°	2921.7	8.5
30°-40°	5370.0	15.7
40°-50°	8232.3	24.0
50°-60°	8708.7	25.4
60°-70°	5687.0	16.6
70°-80°	1553.9	4.5
80°-90°	83.7	0.2
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°	34269.0	100.0
0°-180°	34269.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459373

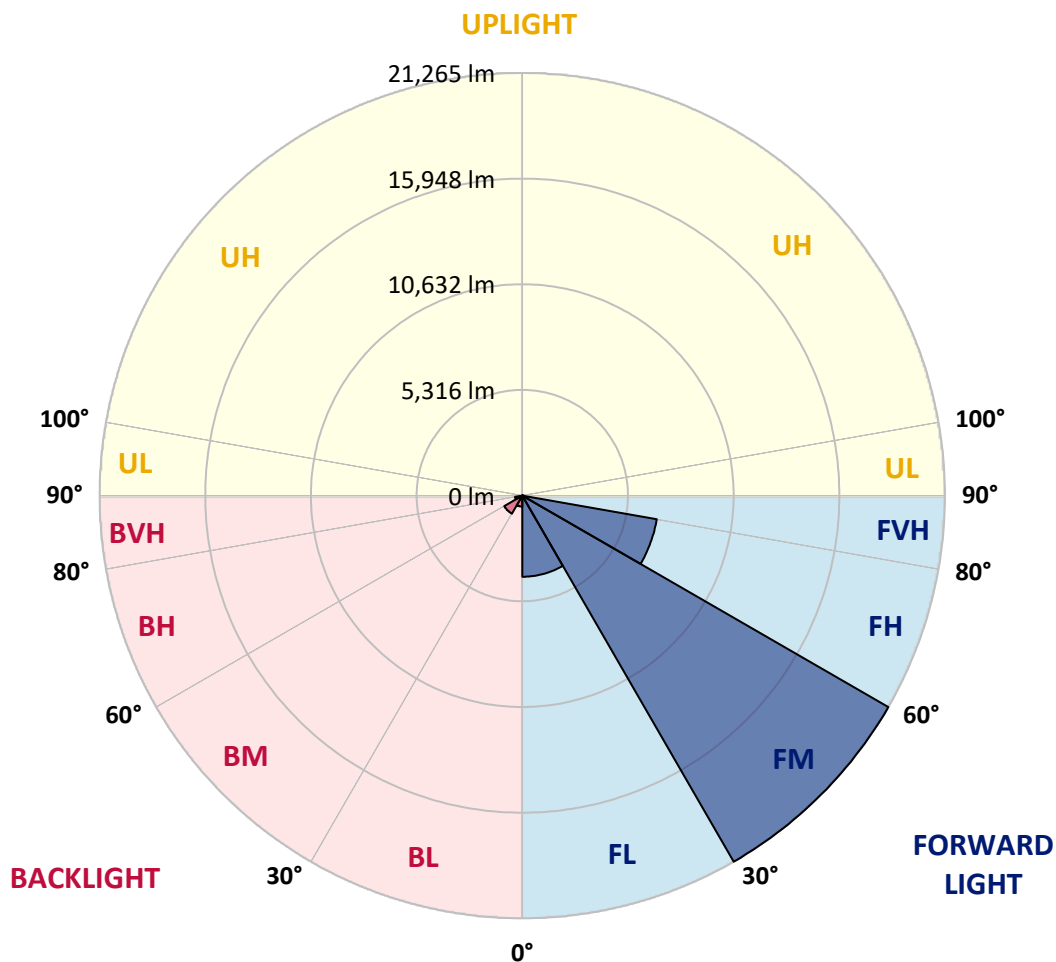
CATALOG NUMBER: GALN-SA8B-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4081.4	11.9			
FM	(30°-60°)	21264.5	62.1			
FH	(60°-80°)	6869.8	20.0			G3/7500
FVH	(80°-90°)	76.7	0.2			G1/100
BL	(0°-30°)	552.1	1.6	B2/1000		
BM	(30°-60°)	1046.4	3.1	B2/2500		
BH	(60°-80°)	371.1	1.1	B1/500		G1/500
BVH	(80°-90°)	6.9	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-G3

Type II Short





REPORT NUMBER: P459373

CATALOG NUMBER: GALN-SA8B-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0
2.5°	4199.7	4161.8	4086.1	4060.1	3948.9	3776.2	3624.7	3421.3	3260.4	3243.8	3049.8
5°	5624.0	5538.9	5503.4	5333.0	5065.7	4814.9	4384.2	4057.7	3681.5	3653.1	3262.7
7.5°	6996.3	6878.0	6842.5	6681.6	6369.3	5974.2	5415.8	4822.0	4225.7	4171.3	3549.0
10°	7990.1	8006.6	7942.7	7836.3	7583.1	7180.9	6492.4	5680.8	4831.4	4762.8	3870.8
12.5°	8702.2	8699.9	8711.7	8709.3	8574.5	8269.2	7545.2	6610.7	5498.6	5363.8	4239.9
15°	9166.0	9173.1	9208.6	9331.6	9345.8	9156.5	8553.2	7500.3	6272.3	6104.3	4639.8
17.5°	9634.4	9684.1	9740.9	9856.8	9961.0	9885.2	9459.4	8427.8	6972.7	6847.3	5068.0
20°	10408.1	10476.7	10443.6	10514.6	10569.0	10576.1	10247.2	9284.3	7822.1	7611.5	5557.8
22.5°	11645.6	11643.2	11558.0	11430.3	11323.8	11319.0	11020.9	10164.4	8593.4	8389.9	6049.9
25°	13209.5	13216.6	13051.0	12686.6	12421.6	12097.5	11754.4	10935.8	9419.1	9168.3	6568.1
27.5°	15002.9	14958.0	14707.2	14205.6	13680.3	13126.7	12632.2	11832.5	10294.6	10086.3	7161.9
30°	16614.2	16597.6	16304.3	15691.5	15000.6	14444.6	13727.7	12956.3	11427.9	11172.4	7826.8
32.5°	18114.3	18137.9	17731.0	17096.9	16429.7	15788.5	15031.3	14030.5	12539.9	12177.9	8550.8
35°	19285.4	19309.1	18887.9	18360.3	17674.2	17141.8	16420.2	15175.7	13637.7	13332.5	9383.6
37.5°	19910.1	19940.8	19697.1	19299.6	18871.4	18604.0	17932.1	16649.7	14972.2	14787.6	10367.9
40°	20028.4	20063.9	19957.4	19850.9	19827.3	20018.9	19822.5	18386.4	16822.4	16533.8	11834.8
42.5°	19673.5	19720.8	19768.1	20004.7	20487.4	21190.1	21873.9	20742.9	19205.0	18817.0	13628.3
45°	18741.3	18736.5	18923.4	19536.2	20617.5	22117.6	24017.5	23693.3	22451.2	21989.8	16162.3
47.5°	17146.6	17122.9	17527.5	18400.5	20085.2	22287.9	25766.0	27275.5	26594.1	26168.2	18885.6
50°	14716.7	14832.6	15469.0	16687.5	18762.6	21772.1	26305.4	29625.0	29994.1	29542.1	21086.0
52.5°	11870.3	11865.6	12864.1	14517.9	16803.5	20636.4	25929.2	30050.8	31099.0	30753.5	22169.6
55°	8785.0	8846.6	9885.2	11553.3	14260.0	18563.8	24701.3	29613.1	31520.1	31276.4	22884.2
57°	6535.0	6643.8	7476.6	9241.7	12045.4	16512.5	23066.3	28830.0	31685.8	31553.3	23478.0
57.5°	6099.6	6104.3	6915.9	8520.0	11397.1	15724.6	22597.9	28503.5	31681.0	31607.7	23575.0
60°	3754.9	3873.2	4433.9	5758.9	8342.6	12272.6	19458.2	26627.2	31435.0	31541.4	23989.1
62.5°	2247.7	2297.4	2661.8	3471.0	5378.0	8957.8	15923.3	24225.7	30793.8	31117.9	23960.7
65°	1445.6	1457.5	1623.1	2101.0	3362.1	6054.6	12270.2	21052.9	29135.2	29731.4	23023.8
67.5°	1116.8	1135.7	1201.9	1379.4	1949.6	3771.4	8678.6	17667.1	26452.1	27221.1	20752.4
70°	991.4	1000.8	1024.5	1081.3	1289.5	2129.4	5399.3	13801.0	21935.4	22153.1	16240.4
72.5°	809.2	835.2	908.6	927.5	1022.1	1329.7	3004.8	9263.0	14737.9	14792.4	9085.5
75°	627.0	631.7	740.6	795.0	861.2	915.7	1341.5	4670.5	7079.1	6700.6	3501.7
77.5°	468.5	489.8	539.5	608.1	702.7	655.4	601.0	1760.3	2198.0	2157.8	1017.4
80°	300.5	312.3	376.2	456.6	546.6	428.2	338.3	515.8	482.7	496.9	243.7
82.5°	151.4	153.8	241.3	371.5	347.8	215.3	212.9	210.6	179.8	177.5	113.6
85°	16.6	35.5	156.2	212.9	156.2	71.0	99.4	97.0	94.6	97.0	66.2
87.5°	2.4	2.4	26.0	30.8	21.3	23.7	28.4	30.8	37.9	35.5	28.4
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: P459373

CATALOG NUMBER: GALN-SA8B-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0	2870.0
2.5°	2955.2	2860.5	2685.4	2517.4	2392.0	2311.6	2207.5	2169.6	2115.2	2108.1	2082.1
5°	3082.9	2903.1	2597.9	2356.6	2162.5	2015.9	1888.1	1781.6	1696.4	1677.5	1687.0
7.5°	3265.1	2997.7	2571.9	2243.0	1973.3	1722.5	1519.0	1393.6	1303.7	1270.6	1275.3
10°	3471.0	3123.1	2567.1	2122.3	1710.6	1403.1	1180.6	1069.4	1017.4	998.5	977.2
12.5°	3714.7	3267.5	2555.3	1935.4	1422.0	1119.1	960.6	894.4	844.7	830.5	830.5
15°	3989.1	3421.3	2498.5	1703.5	1154.6	925.1	818.6	766.6	750.0	735.8	735.8
17.5°	4275.4	3572.7	2380.2	1417.2	958.2	792.6	726.4	695.6	672.0	655.4	655.4
20°	4601.9	3721.8	2190.9	1164.1	809.2	707.4	655.4	619.9	601.0	586.8	582.0
22.5°	4911.9	3842.4	1949.6	955.9	705.1	636.5	589.1	551.3	532.4	525.3	525.3
25°	5233.6	3915.8	1658.6	790.3	643.6	577.3	525.3	494.5	477.9	473.2	470.8
27.5°	5546.0	3958.4	1403.1	690.9	586.8	522.9	473.2	449.5	433.0	428.2	430.6
30°	5924.5	3965.5	1154.6	619.9	537.1	470.8	425.9	404.6	395.1	390.4	388.0
32.5°	6307.8	3956.0	970.1	577.3	489.8	425.9	388.0	371.5	364.4	357.3	357.3
35°	6738.4	3906.3	825.7	534.7	444.8	388.0	354.9	340.7	331.2	324.1	321.8
37.5°	7273.2	3880.3	742.9	487.4	404.6	352.5	321.8	307.6	300.5	291.0	288.7
40°	8115.5	3996.2	716.9	444.8	364.4	319.4	291.0	274.5	265.0	255.5	253.2
42.5°	9166.0	4199.7	674.3	402.2	328.9	288.7	260.3	241.3	224.8	212.9	208.2
45°	10526.4	4467.0	608.1	357.3	298.1	255.5	229.5	205.8	184.5	175.1	172.7
47.5°	11953.1	4724.9	548.9	321.8	265.0	227.1	198.7	172.7	153.8	146.7	144.3
50°	12828.6	4777.0	511.1	281.6	231.9	196.4	168.0	144.3	132.5	125.4	125.4
52.5°	13228.4	4694.2	459.0	246.1	201.1	172.7	144.3	125.4	118.3	113.6	111.2
55°	13507.6	4566.4	390.4	212.9	172.7	146.7	127.8	113.6	104.1	99.4	97.0
57°	13670.9	4393.7	338.3	186.9	149.1	127.8	113.6	101.7	92.3	82.8	82.8
57.5°	13678.0	4327.5	324.1	184.5	142.0	123.0	111.2	99.4	87.5	78.1	75.7
60°	13467.4	3873.2	260.3	156.2	113.6	104.1	92.3	78.1	61.5	52.1	49.7
62.5°	12790.7	3295.9	215.3	132.5	92.3	80.4	66.2	59.2	42.6	30.8	30.8
65°	11766.2	2673.6	184.5	106.5	75.7	59.2	45.0	42.6	26.0	14.2	11.8
67.5°	10285.1	2082.1	156.2	87.5	63.9	42.6	30.8	28.4	14.2	4.7	0.0
70°	7836.3	1419.6	130.1	71.0	47.3	30.8	21.3	16.6	9.5	2.4	0.0
72.5°	4516.7	780.8	108.8	54.4	35.5	23.7	16.6	9.5	9.5	0.0	0.0
75°	1613.6	336.0	82.8	40.2	28.4	18.9	11.8	4.7	7.1	2.4	0.0
77.5°	513.4	179.8	54.4	30.8	23.7	14.2	9.5	4.7	4.7	2.4	0.0
80°	151.4	94.6	33.1	26.0	16.6	11.8	7.1	2.4	4.7	2.4	0.0
82.5°	82.8	47.3	26.0	18.9	16.6	9.5	7.1	2.4	2.4	2.4	0.0
85°	42.6	28.4	21.3	18.9	16.6	9.5	7.1	2.4	0.0	2.4	2.4
87.5°	23.7	21.3	21.3	18.9	16.6	11.8	7.1	2.4	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)