

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: P459371

Luminaire Tested: **GALN-SA8B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31998 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

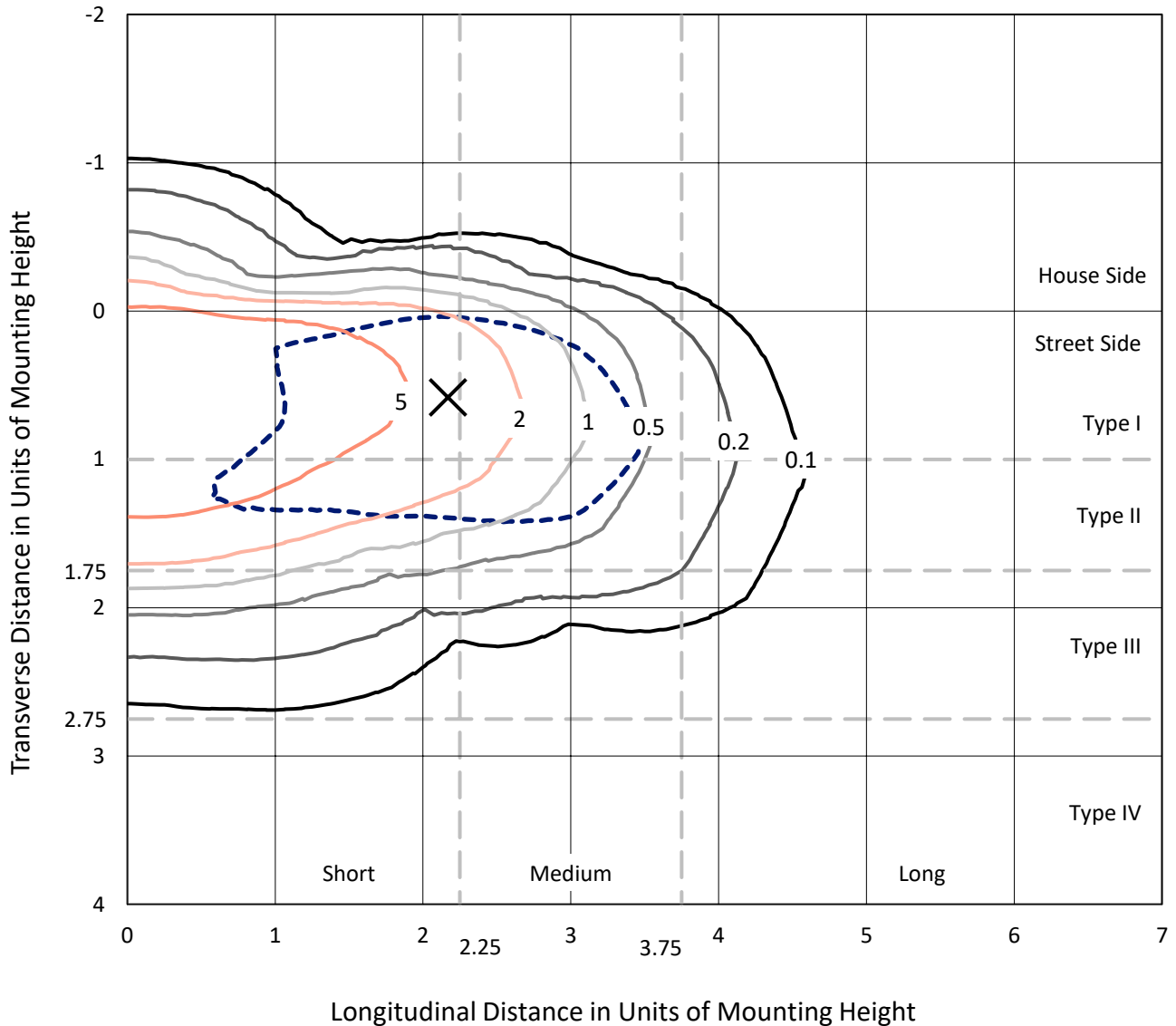
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459371
 CATALOG NUMBER: GALN-SA8B-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

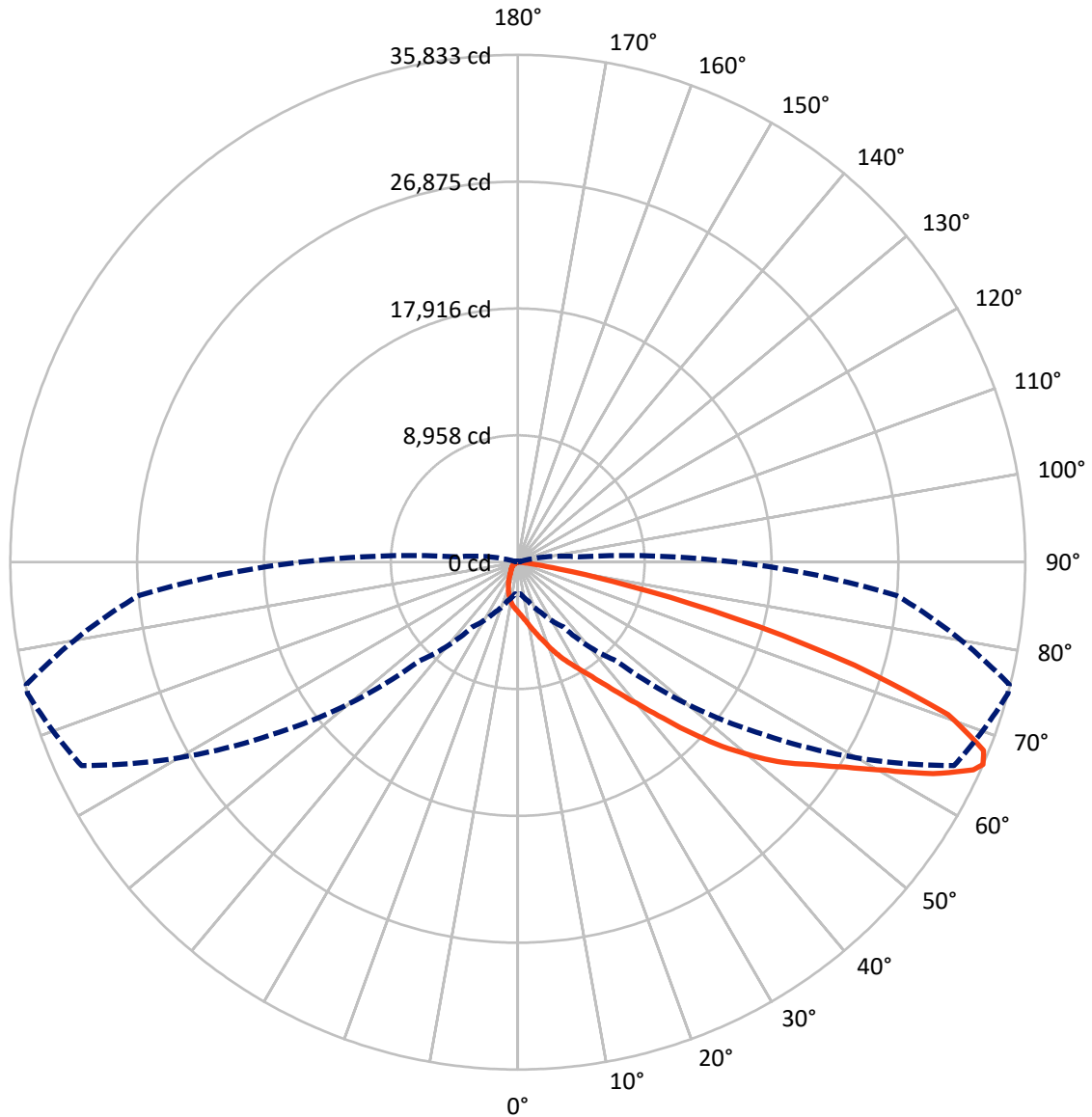
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

REPORT NUMBER: P459371
CATALOG NUMBER: GALN-SA8B-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P459371

CATALOG NUMBER: GALN-SA8B-735-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1975.4	0.0	1975.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	30022.6	0.0	30022.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	31998.0	0.0	31998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.5	1.1
10°-20°	993.3	3.1
20°-30°	1715.2	5.4
30°-40°	3093.9	9.7
40°-50°	5589.3	17.5
50°-60°	8713.7	27.2
60°-70°	8277.7	25.9
70°-80°	3102.3	9.7
80°-90°	175.0	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°	31998.0	100.0
0°-180°	31998.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459371

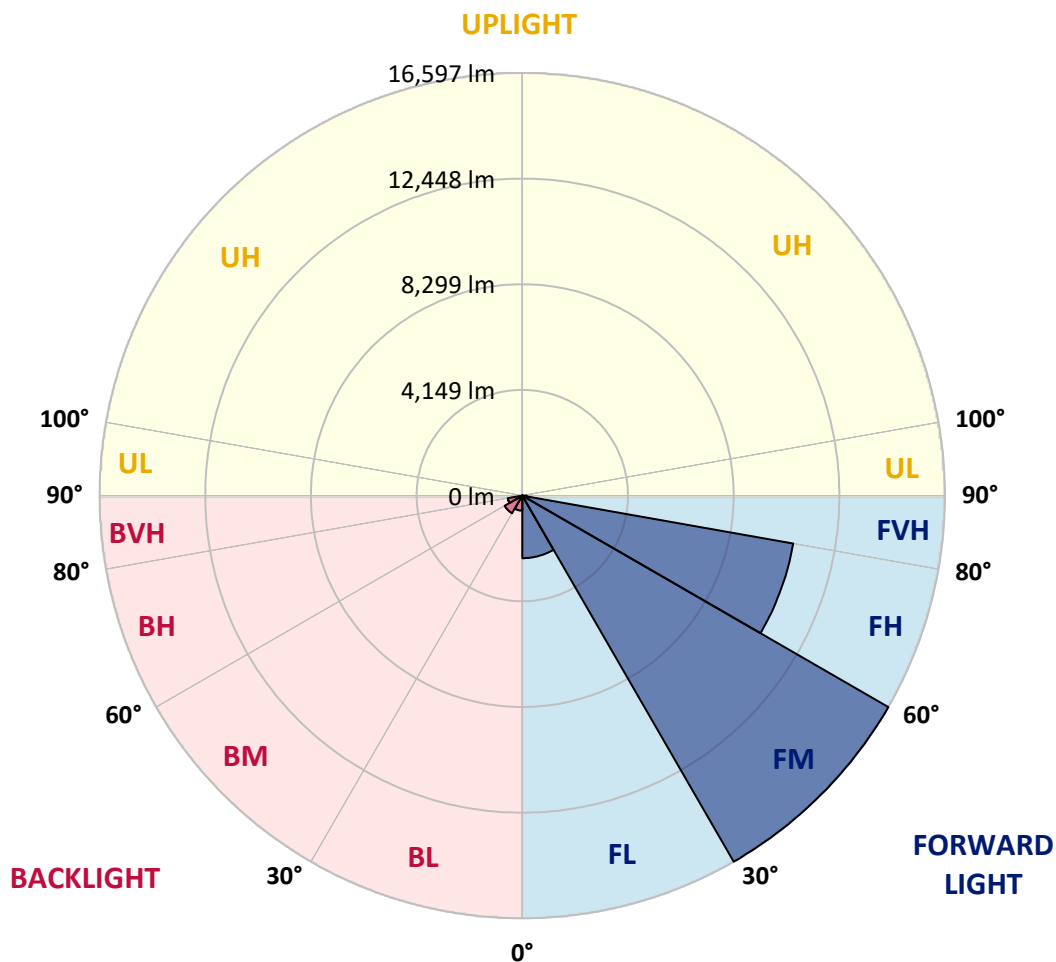
CATALOG NUMBER: GALN-SA8B-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2456.1	7.7			
FM (30°-60°)	16597.3	51.9			
FH (60°-80°)	10803.1	33.8			G4/12000
FVH (80°-90°)	166.0	0.5			G2/225
BL (0°-30°)	589.9	1.8	B2/1000		
BM (30°-60°)	799.6	2.5	B1/1000		
BH (60°-80°)	576.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.0	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 II Short





REPORT NUMBER: P459371

CATALOG NUMBER: GALN-SA8B-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3
2.5°	4180.7	4128.7	4145.2	4121.6	4067.1	3986.7	3915.7	3814.0	3712.2	3695.7	3582.1
5°	4732.0	4717.8	4698.9	4630.2	4592.4	4469.4	4322.7	4147.6	3937.0	3899.1	3693.3
7.5°	5108.2	5101.1	5110.5	5075.0	5041.9	4930.7	4774.6	4535.6	4209.1	4187.8	3844.7
10°	5231.2	5250.1	5285.6	5342.4	5394.5	5359.0	5240.7	4942.6	4561.6	4500.1	4017.4
12.5°	5160.2	5181.5	5266.7	5418.1	5586.1	5683.1	5635.8	5418.1	4935.5	4885.8	4211.5
15°	4978.0	5004.1	5124.7	5359.0	5659.4	5933.9	6052.2	5896.0	5370.8	5290.4	4445.7
17.5°	4708.3	4746.2	4918.9	5228.8	5640.5	6113.7	6447.3	6395.3	5834.5	5758.8	4701.2
20°	4504.8	4533.2	4679.9	5034.8	5560.1	6213.1	6823.5	6970.2	6407.1	6277.0	5001.7
22.5°	4639.7	4649.2	4698.9	4911.8	5415.7	6239.1	7154.8	7568.8	7015.2	6899.2	5314.0
25°	5299.8	5205.2	5155.5	5108.2	5385.0	6215.5	7455.2	8193.4	7620.9	7497.8	5624.0
27.5°	6340.9	6298.3	6047.5	5711.5	5647.6	6246.2	7654.0	8784.9	8191.1	8058.6	5926.8
30°	7474.2	7400.8	7247.0	6754.9	6260.4	6463.9	7798.3	9359.9	8865.4	8690.3	6203.6
32.5°	8515.2	8562.5	8333.0	7826.7	7254.1	6927.6	7985.2	9986.8	9639.0	9421.4	6525.4
35°	9728.9	9823.6	9471.1	8986.0	8316.5	7765.2	8349.6	10694.3	10620.9	10346.5	7022.3
37.5°	10961.6	11018.4	10803.1	10121.7	9518.4	8829.9	9035.7	11567.3	11829.9	11595.7	7616.1
40°	11997.9	12076.0	11917.5	11311.8	10668.2	10062.6	10031.8	12518.4	13268.5	13027.1	8501.0
42.5°	12790.5	12849.7	12854.4	12426.2	11846.5	11572.1	11302.3	13732.2	15071.3	14792.2	9527.8
45°	13791.3	13876.5	13826.8	13535.8	13102.8	13053.2	12913.6	15199.1	17229.1	16876.6	10859.9
47.5°	15338.7	15395.5	15272.5	14929.4	14489.3	14567.4	14484.6	16843.5	19429.5	19126.7	12239.3
50°	16412.9	16507.5	16682.6	16819.8	16500.4	16211.8	15965.7	18379.0	21518.7	21246.6	13649.4
52.5°	16401.0	16557.2	17110.8	17801.7	18499.7	18412.1	17704.7	20075.4	23513.2	23177.2	14974.3
55°	15296.1	15599.0	16412.9	17638.4	19571.5	20534.4	20212.6	22039.2	25235.6	25008.5	16509.9
57.5°	13015.3	13199.9	14330.8	16043.8	18972.9	21532.9	23118.1	24700.9	27301.1	27194.7	18894.8
60°	8754.2	8837.0	10292.1	12409.6	16152.6	20536.8	25247.5	27921.0	29844.6	29792.5	21679.6
62.5°	5015.9	5051.4	6106.6	7892.9	11494.0	17404.2	25427.3	31893.5	32894.3	32922.7	24902.0
65°	2699.6	2718.5	3570.3	4632.6	6993.9	12404.9	22864.9	34070.2	35359.7	35414.1	26898.9
66°	2330.5	2240.6	2841.6	3948.8	5564.8	9873.3	21244.2	33992.2	35832.9	35773.8	26827.9
67.5°	1772.1	1852.6	2269.0	3035.6	4123.9	7019.9	17539.1	32480.3	35473.3	35288.7	25737.2
70°	1268.2	1301.3	1616.0	2164.9	2808.4	3851.8	11207.7	26977.0	32241.3	31992.9	22422.5
72.5°	818.6	854.1	1145.1	1566.3	2030.0	2103.4	6274.6	19491.0	24857.1	24821.6	16886.1
75°	584.4	617.5	757.1	1121.5	1526.1	1301.3	3021.4	13136.0	15802.4	15696.0	10445.8
77.5°	423.5	440.1	506.3	733.5	1090.7	932.2	1400.7	7015.2	7866.9	8238.4	4616.0
80°	243.7	257.9	352.5	447.2	738.2	636.5	669.6	2815.5	2903.1	2763.5	1443.3
82.5°	120.7	137.2	210.6	305.2	461.4	428.2	307.6	847.0	894.3	870.7	364.4
85°	28.4	35.5	118.3	201.1	224.8	191.6	149.1	248.4	307.6	300.5	139.6
87.5°	2.4	4.7	42.6	35.5	37.9	63.9	52.1	63.9	99.4	92.3	49.7
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: P459371
 CATALOG NUMBER: GALN-SA8B-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3	3499.3
2.5°	3530.1	3485.1	3355.0	3227.2	3120.7	3009.5	2907.8	2848.7	2825.0	2799.0	2810.8
5°	3579.7	3470.9	3208.3	2981.1	2758.7	2569.5	2418.0	2321.0	2273.7	2266.6	2254.8
7.5°	3646.0	3459.1	3052.1	2697.2	2406.2	2195.6	2022.9	1883.3	1840.7	1802.9	1772.1
10°	3726.4	3437.8	2858.1	2399.1	2089.2	1824.2	1597.0	1431.4	1346.2	1322.6	1339.1
12.5°	3811.6	3397.6	2654.6	2124.7	1767.4	1429.1	1218.5	1135.7	1112.0	1102.6	1104.9
15°	3896.8	3347.9	2441.7	1859.7	1407.8	1140.4	1043.4	1022.1	1012.6	1007.9	1003.2
17.5°	3974.9	3267.4	2202.7	1601.8	1140.4	974.8	939.3	920.4	901.4	894.3	882.5
20°	4067.1	3175.2	1987.4	1313.1	965.3	882.5	839.9	804.4	776.0	757.1	754.8
22.5°	4154.7	3056.9	1762.7	1088.4	880.1	792.6	724.0	686.1	653.0	629.4	636.5
25°	4202.0	2912.5	1561.6	948.8	802.1	702.7	627.0	579.7	544.2	532.3	530.0
27.5°	4202.0	2735.1	1365.2	868.3	731.1	622.3	544.2	499.2	475.6	459.0	461.4
30°	4168.9	2538.7	1183.0	806.8	669.6	551.3	477.9	437.7	418.8	407.0	404.6
32.5°	4142.8	2351.8	1026.8	747.7	605.7	489.8	425.9	395.1	376.2	364.4	364.4
35°	4183.1	2190.9	906.2	688.5	546.5	442.4	385.7	357.3	338.3	328.9	326.5
37.5°	4289.5	2044.2	813.9	624.6	492.1	402.2	357.3	324.1	305.2	293.4	288.7
40°	4552.2	1961.4	745.3	565.5	440.1	369.1	324.1	293.4	269.7	257.9	255.5
42.5°	4973.3	1963.8	679.0	511.1	399.9	340.7	295.7	260.3	234.2	222.4	220.0
45°	5607.4	2053.7	627.0	459.0	364.4	309.9	265.0	227.1	203.5	191.6	191.6
47.5°	6366.9	2228.8	582.0	414.0	331.2	281.6	234.2	196.4	172.7	163.3	163.3
50°	7190.2	2455.9	537.1	366.7	302.8	250.8	201.1	170.4	151.4	144.3	144.3
52.5°	8030.2	2730.4	492.1	328.9	272.1	217.7	172.7	151.4	134.9	130.1	127.8
55°	9132.7	3080.5	444.8	288.7	239.0	186.9	153.8	132.5	113.6	106.5	104.1
57.5°	10829.1	3608.1	392.8	253.2	196.4	156.2	132.5	111.2	89.9	78.1	75.7
60°	12875.7	4251.7	338.3	222.4	158.5	127.8	106.5	85.2	66.2	52.1	49.7
62.5°	14792.2	4661.0	286.3	186.9	125.4	97.0	75.7	63.9	47.3	33.1	30.8
65°	15639.2	4523.8	236.6	151.4	99.4	68.6	49.7	45.0	28.4	14.2	11.8
66°	15357.6	4320.3	217.7	137.2	89.9	59.1	42.6	37.9	21.3	7.1	7.1
67.5°	14527.2	3840.0	189.3	118.3	78.1	47.3	33.1	28.4	11.8	2.4	0.0
70°	12447.5	3106.5	149.1	87.5	56.8	33.1	18.9	14.2	7.1	0.0	0.0
72.5°	9561.0	2313.9	118.3	66.2	40.2	18.9	9.5	4.7	7.1	0.0	0.0
75°	5858.2	1322.6	92.3	49.7	26.0	11.8	7.1	0.0	7.1	2.4	0.0
77.5°	2600.2	593.9	61.5	33.1	18.9	9.5	4.7	0.0	4.7	2.4	0.0
80°	657.7	194.0	35.5	23.7	14.2	7.1	2.4	0.0	4.7	4.7	2.4
82.5°	179.8	71.0	26.0	18.9	11.8	7.1	2.4	0.0	4.7	4.7	4.7
85°	71.0	33.1	23.7	18.9	14.2	7.1	2.4	0.0	4.7	4.7	4.7
87.5°	33.1	23.7	23.7	21.3	16.6	7.1	2.4	0.0	4.7	2.4	4.7
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)