

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: P459433

Luminaire Tested: **GALN-SA8D-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42723 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

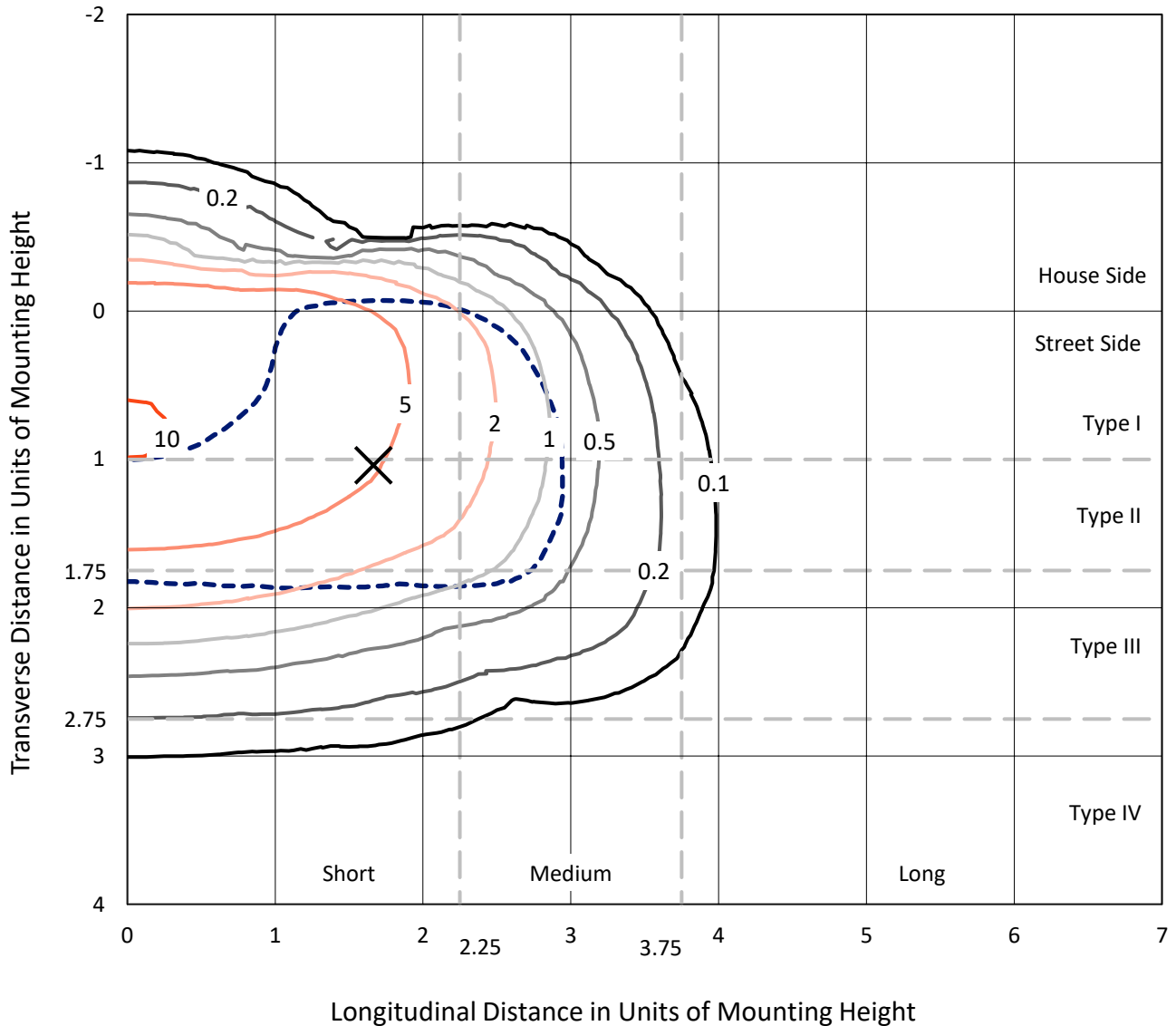
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459433  
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### Iso-Footcandle Lines of Horizontal Illumination

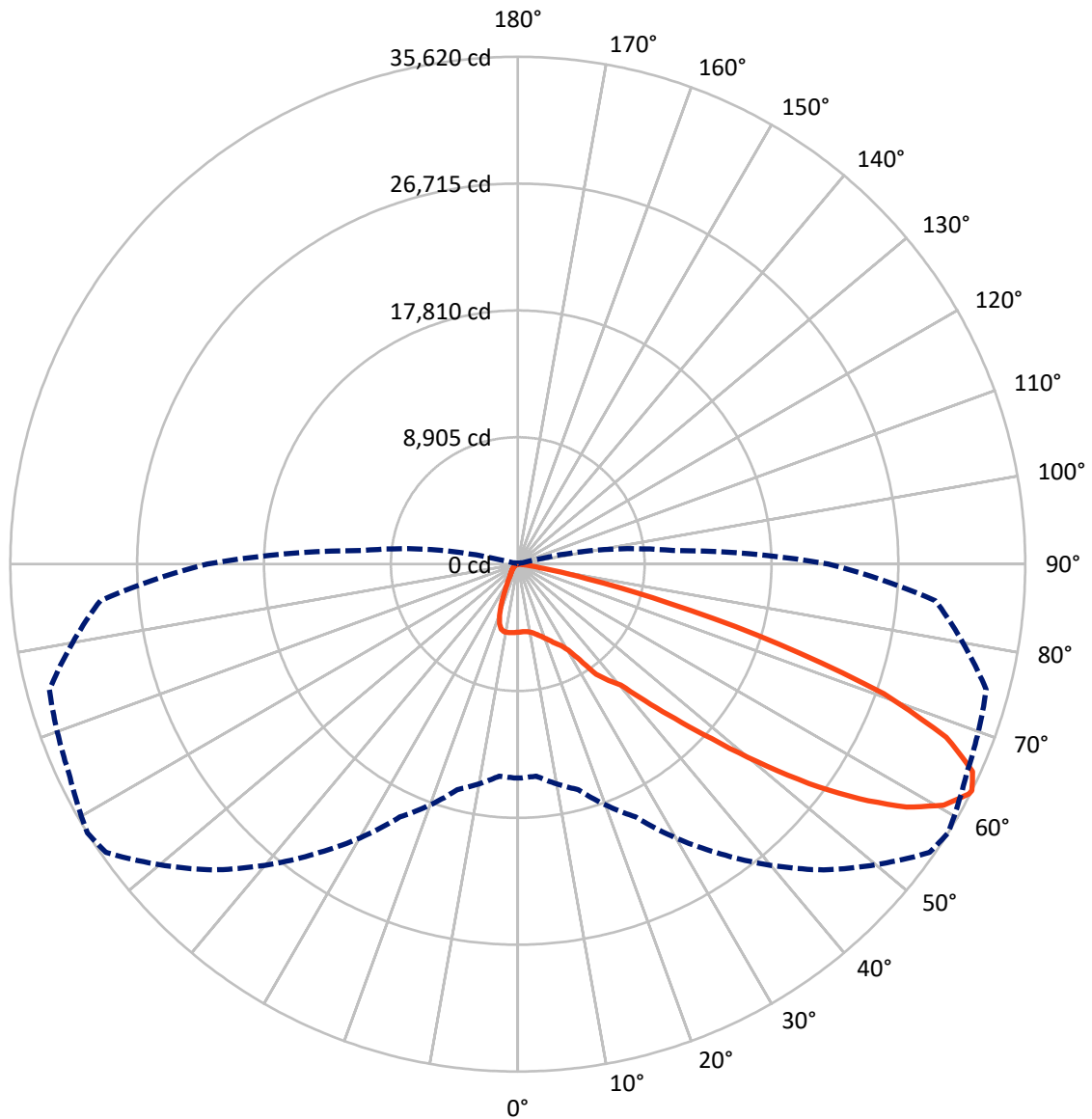
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P459433  
CATALOG NUMBER: GALN-SA8D-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: GALN-SA8D-735-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4423.7	0.0	4423.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	38299.3	0.0	38299.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	42723.0	0.0	42723.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.7	1.0
10°-20°	1219.5	2.9
20°-30°	2116.5	5.0
30°-40°	3889.4	9.1
40°-50°	7321.7	17.1
50°-60°	12523.1	29.3
60°-70°	11990.9	28.1
70°-80°	3057.7	7.2
80°-90°	156.3	0.4
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°	42723.0	100.0
0°-180°	42723.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459433

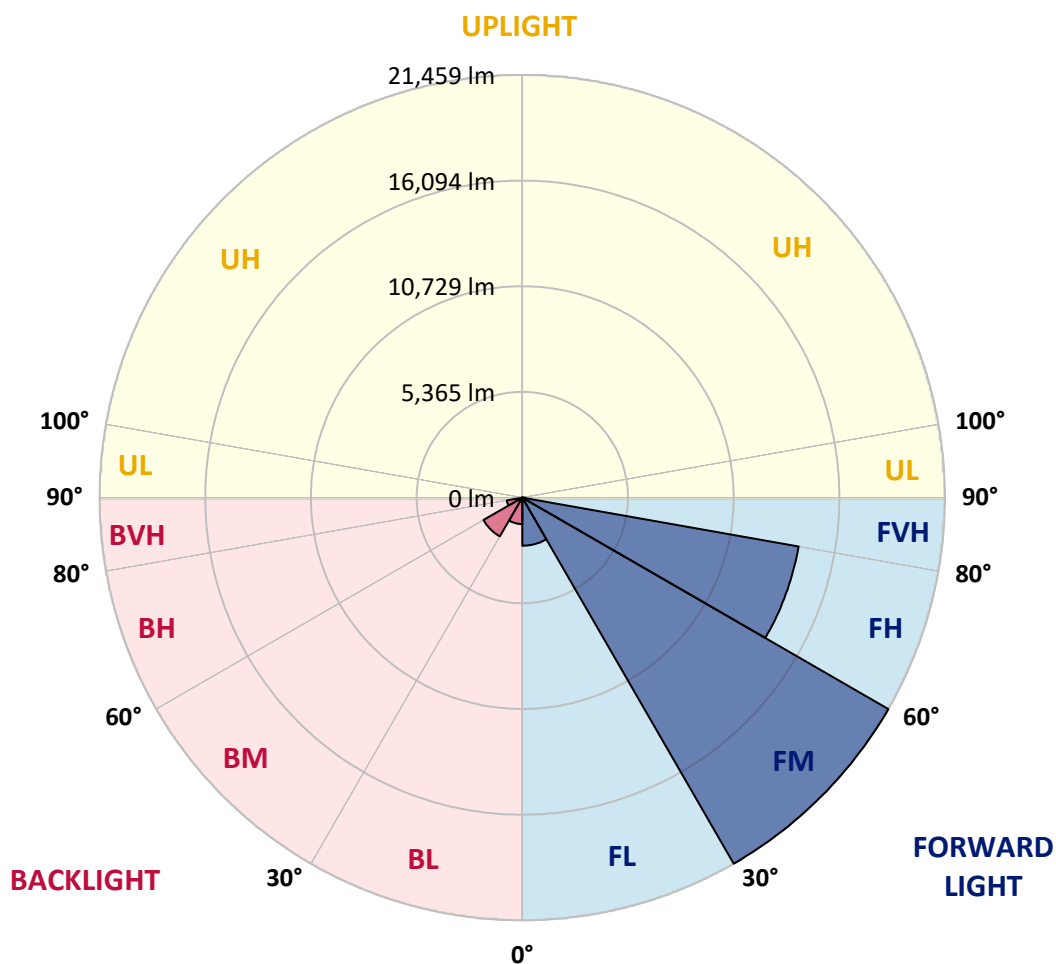
CATALOG NUMBER: GALN-SA8D-735-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.2	5.7			
FM (30°-60°)	21458.9	50.2			
FH (60°-80°)	14247.9	33.3			G5
FVH (80°-90°)	150.3	0.4			G2/225
BL (0°-30°)	1341.6	3.1	B3/2500		
BM (30°-60°)	2275.3	5.3	B2/2500		
BH (60°-80°)	800.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P459433

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0
2.5°	4664.0	4680.1	4696.2	4702.6	4725.1	4747.6	4763.7	4760.5	4786.2	4799.1	4799.1
5°	4477.4	4477.4	4519.2	4557.8	4622.2	4686.5	4747.6	4760.5	4808.7	4853.8	4869.9
7.5°	4319.8	4329.5	4361.6	4432.4	4519.2	4631.8	4754.1	4783.0	4866.6	4966.3	5008.2
10°	4245.8	4252.3	4294.1	4368.1	4477.4	4631.8	4802.3	4857.0	4985.6	5143.3	5201.2
12.5°	4229.8	4239.4	4281.2	4364.9	4490.3	4676.9	4908.5	4966.3	5152.9	5355.6	5442.4
15°	4258.7	4265.1	4307.0	4397.0	4535.3	4757.3	5050.0	5130.4	5352.3	5587.1	5699.7
17.5°	4361.6	4355.2	4384.2	4458.1	4612.5	4857.0	5220.5	5317.0	5577.5	5899.1	5973.1
20°	4799.1	4757.3	4731.5	4667.2	4728.3	4998.5	5426.3	5567.8	5889.5	6217.6	6269.0
22.5°	5741.5	5648.3	5464.9	5214.0	5021.0	5191.5	5674.0	5838.0	6253.0	6574.6	6574.6
25°	6941.3	6822.3	6639.0	6092.1	5619.3	5509.9	5953.8	6159.7	6648.6	6973.5	6867.3
27.5°	8443.4	8350.2	7993.1	7356.2	6632.5	6066.4	6278.7	6468.5	6999.2	7391.6	7169.7
30°	9665.7	9620.7	9328.0	8758.7	7961.0	7134.3	6883.4	7008.9	7465.6	7919.1	7690.8
32.5°	10698.2	10698.2	10399.1	9868.4	9122.1	8388.8	7909.5	7999.6	8437.0	8961.3	8536.7
35°	11833.7	11795.1	11553.8	11048.8	10212.5	9566.0	9369.8	9492.0	9887.7	10276.9	9231.5
37.5°	13027.0	13014.1	12763.3	12274.3	11592.4	10778.6	10318.7	10350.8	10553.5	10791.5	10045.3
40°	14323.3	14342.6	14014.5	13712.1	13068.8	12235.7	11354.4	11151.8	11341.5	12013.8	11547.4
42.5°	15854.4	15809.3	15667.8	15256.1	14738.2	14239.7	13181.4	13107.4	13274.7	13995.2	13490.2
45°	17633.1	17697.4	17453.0	17224.6	16877.2	16462.3	15577.7	15449.1	15632.4	16751.8	16034.5
47.5°	19415.1	19354.0	19511.6	19469.8	19656.3	19347.5	18565.9	18302.2	18742.8	19804.3	18749.3
50°	20772.5	20840.0	21168.1	21647.4	22448.3	22622.0	21872.5	21782.5	21978.7	22660.6	21177.7
52.5°	21653.8	21879.0	22393.6	23625.5	25069.8	26192.3	25623.0	25574.8	25494.3	25677.7	23500.1
55°	22229.6	22457.9	23130.2	24944.3	27430.7	29254.5	29283.4	29077.6	28546.9	28415.0	25671.3
57.5°	21875.7	21920.8	22879.3	25304.6	28739.8	31438.5	32384.2	32178.3	31197.3	30698.7	27588.3
60°	19662.8	19756.0	21090.9	23940.8	28170.5	32152.6	34439.6	34346.3	33272.0	32709.1	29080.8
62.5°	15741.8	16012.0	17385.4	20563.4	25523.3	30949.6	35272.7	35536.4	34700.1	33924.9	29550.4
63°	15021.3	14934.4	16385.1	19579.1	24822.1	30354.6	35285.5	35620.0	34764.4	34040.7	29421.8
65°	11119.6	11380.1	12322.6	15439.4	20656.7	27585.1	34491.0	35082.9	34526.4	33529.3	27996.8
67.5°	6243.3	6230.5	7272.6	10103.2	14458.4	21637.7	31187.6	32438.9	32323.1	30087.6	23207.4
70°	3055.7	3104.0	3531.8	5236.5	8385.5	14928.0	25915.7	27266.7	27308.5	23632.0	16047.4
72.5°	1383.1	1405.6	1711.2	2550.7	4310.2	7948.1	17858.3	19148.1	18910.1	15059.9	8861.6
75°	730.2	778.4	942.4	1283.4	2077.9	3277.7	9714.0	10962.0	10463.4	6880.2	3261.6
77.5°	540.4	556.5	640.1	817.0	1112.9	1277.0	4191.2	4985.6	4670.4	2489.6	1080.8
80°	395.6	408.5	476.0	579.0	701.2	649.7	1579.3	1810.9	1624.4	846.0	331.3
82.5°	241.2	244.5	347.4	431.0	440.7	363.5	521.1	559.7	585.4	476.0	180.1
85°	86.8	109.4	234.8	312.0	260.5	183.3	218.7	241.2	263.8	302.4	106.1
87.5°	9.6	12.9	112.6	151.2	74.0	67.5	80.4	90.1	96.5	112.6	51.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0	4783.0
2.5°	4812.0	4824.8	4815.2	4799.1	4795.9	4786.2	4766.9	4766.9	4766.9	4773.4	4766.9
5°	4882.7	4892.4	4869.9	4837.7	4802.3	4757.3	4709.0	4680.1	4676.9	4670.4	4654.3
7.5°	5017.8	5030.7	4979.2	4902.0	4805.5	4696.2	4593.2	4496.7	4451.7	4416.3	4416.3
10°	5214.0	5226.9	5124.0	4985.6	4792.7	4570.7	4326.3	4104.3	3930.6	3850.2	3830.9
12.5°	5448.8	5455.3	5284.8	5043.5	4725.1	4297.3	3776.2	3290.5	2952.8	2798.4	2782.3
15°	5706.2	5661.1	5436.0	5066.1	4532.1	3734.4	2833.8	2238.7	1888.1	1785.2	1823.8
17.5°	5966.7	5883.1	5551.8	5030.7	4097.9	2833.8	1904.2	1527.9	1418.5	1389.5	1389.5
20°	6211.2	6095.4	5635.4	4876.3	3345.2	1952.4	1412.1	1322.0	1302.7	1283.4	1286.6
22.5°	6455.6	6278.7	5709.4	4532.1	2492.8	1396.0	1264.1	1235.2	1209.4	1183.7	1180.5
25°	6693.6	6449.2	5738.3	3895.2	1698.3	1199.8	1154.7	1116.1	1064.7	1035.7	1029.3
27.5°	6941.3	6655.0	5719.0	3091.1	1238.4	1074.3	1029.3	974.6	913.5	862.0	862.0
30°	7417.4	7047.5	5651.5	2222.6	1042.2	945.7	887.8	800.9	733.4	681.9	678.7
32.5°	8067.1	7558.9	5419.9	1563.2	926.4	833.1	746.2	649.7	579.0	540.4	540.4
35°	8646.1	8073.5	4985.6	1151.5	833.1	723.7	617.6	524.3	469.6	443.9	434.2
37.5°	9527.4	8826.2	4387.4	936.0	743.0	627.2	517.9	431.0	386.0	366.7	366.7
40°	10849.4	9746.1	3654.0	820.2	656.2	533.9	431.0	363.5	328.1	305.6	305.6
42.5°	12489.9	10871.9	2911.0	736.6	575.8	460.0	360.3	308.8	276.6	260.5	257.3
45°	14554.9	12058.8	2241.9	659.4	511.4	392.4	305.6	260.5	228.4	218.7	221.9
47.5°	16710.0	13104.2	1736.9	591.8	443.9	331.3	260.5	225.2	202.6	189.8	189.8
50°	18549.8	13824.7	1318.8	514.6	392.4	279.8	228.4	202.6	183.3	176.9	173.7
52.5°	20087.3	14033.8	1010.0	447.1	344.2	241.2	202.6	183.3	167.3	157.6	157.6
55°	21396.5	13850.5	791.3	376.3	289.5	209.1	180.1	164.0	144.7	135.1	131.9
57.5°	22162.0	13261.8	604.7	312.0	234.8	173.7	157.6	138.3	115.8	99.7	99.7
60°	22548.0	12406.2	463.2	257.3	180.1	138.3	128.7	102.9	80.4	67.5	64.3
62.5°	22084.8	11270.8	350.6	202.6	135.1	102.9	86.8	74.0	51.5	38.6	38.6
63°	21798.5	10942.7	337.7	193.0	125.4	96.5	80.4	67.5	45.0	35.4	32.2
65°	19871.8	9511.3	276.6	154.4	99.7	67.5	54.7	48.2	32.2	16.1	12.9
67.5°	15780.4	7275.8	218.7	115.8	70.8	48.2	32.2	28.9	9.6	0.0	0.0
70°	10669.3	4699.4	170.5	83.6	48.2	28.9	16.1	12.9	3.2	0.0	0.0
72.5°	5564.6	2409.2	131.9	61.1	28.9	19.3	9.6	3.2	0.0	0.0	0.0
75°	1968.5	820.2	96.5	38.6	19.3	9.6	3.2	0.0	0.0	0.0	0.0
77.5°	595.1	305.6	61.1	28.9	12.9	6.4	0.0	0.0	0.0	0.0	0.0
80°	209.1	112.6	35.4	19.3	9.6	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	102.9	54.7	22.5	16.1	9.6	3.2	0.0	0.0	0.0	0.0	0.0
85°	57.9	35.4	19.3	16.1	9.6	6.4	0.0	0.0	0.0	0.0	0.0
87.5°	41.8	25.7	19.3	16.1	12.9	6.4	3.2	0.0	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)