

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: P458128

Luminaire Tested: **GALN-SA9C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458128
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-SA9C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 42615 lumens
Efficiency: N/A
Efficacy: 88.6 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): 481
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

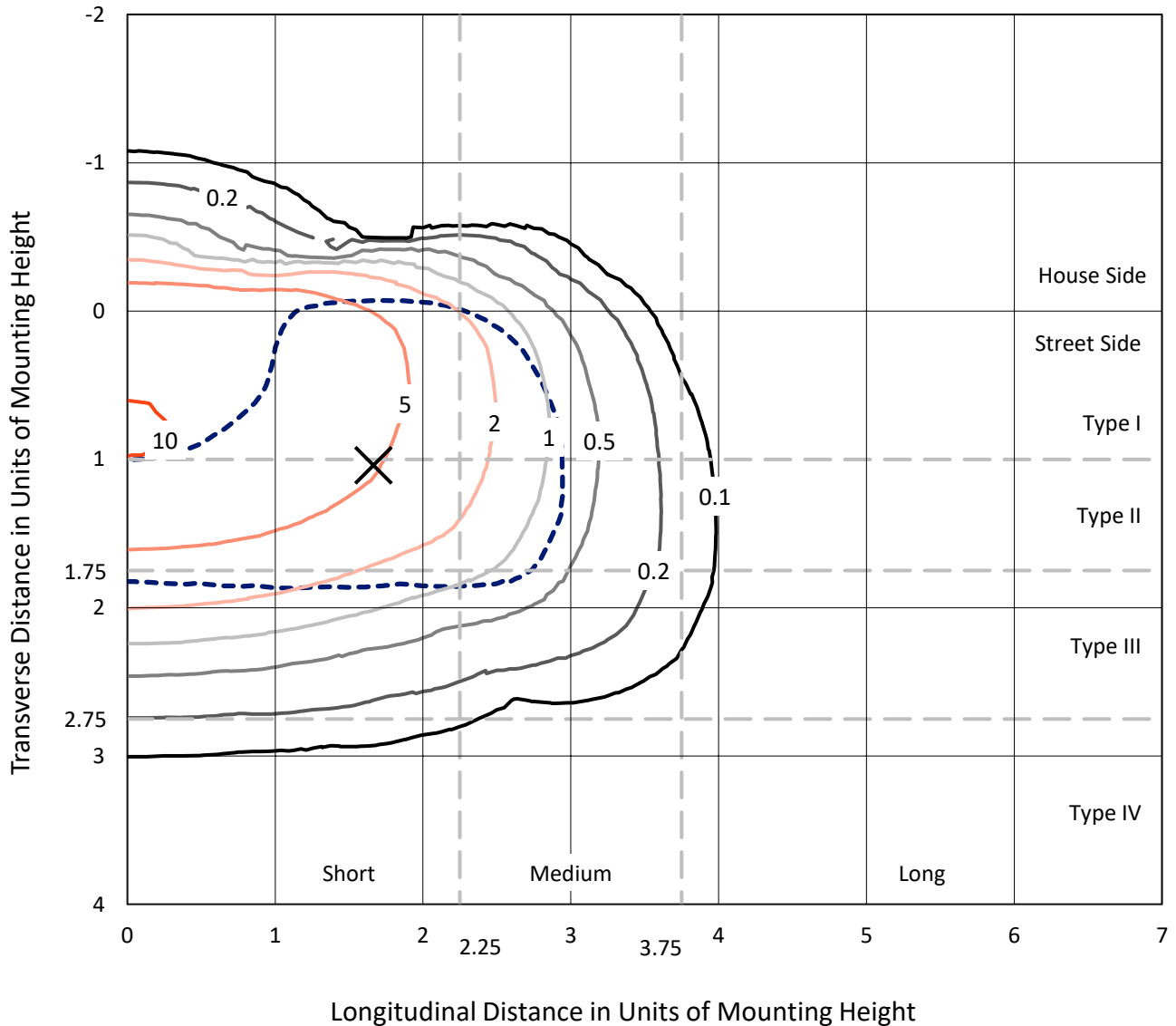




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Iso-Footcandle Lines of Horizontal Illumination

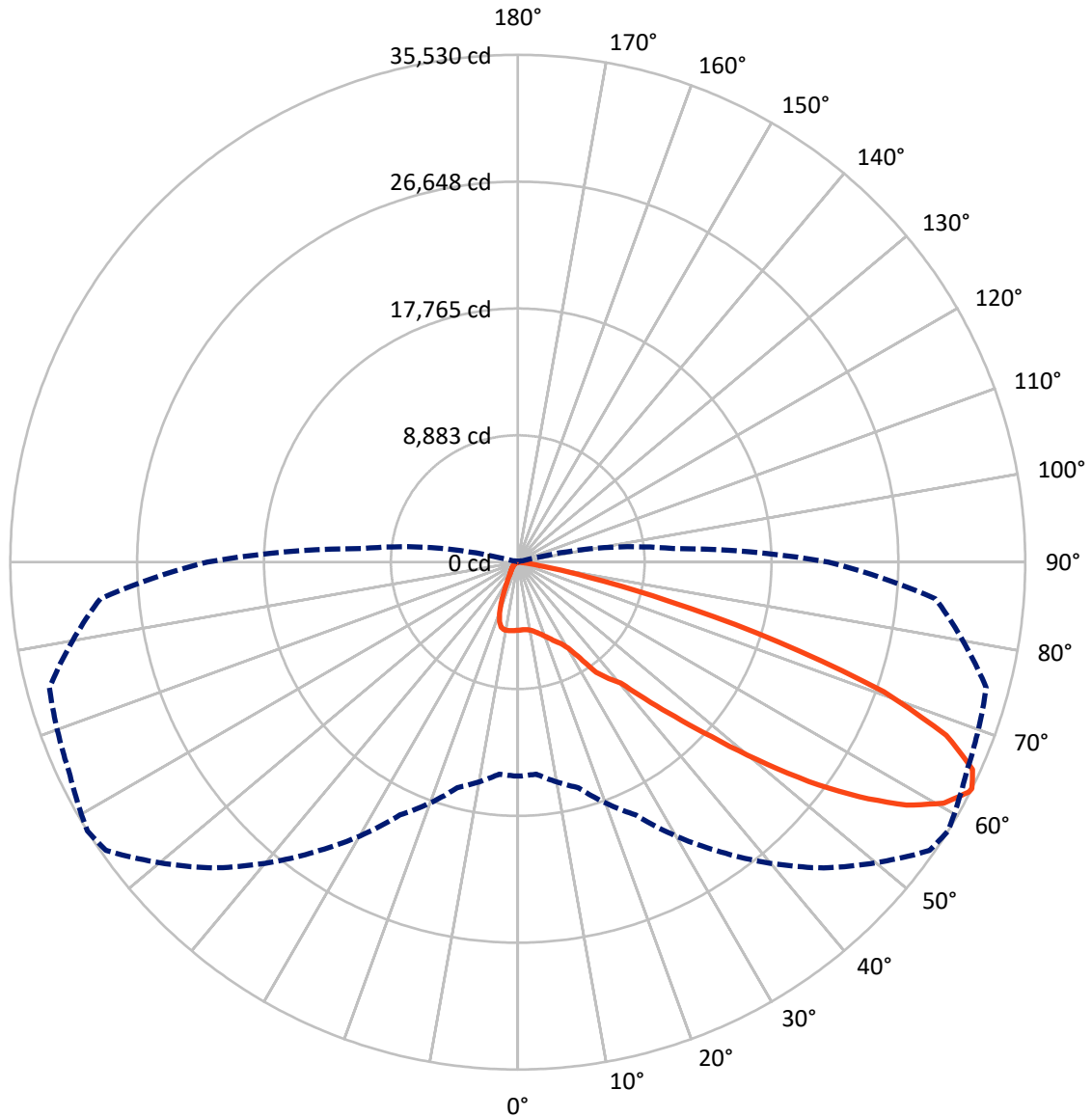
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4412.5	0.0	4412.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	38202.5	0.0	38202.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	42615.0	0.0	42615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	1.0
10°-20°	1216.4	2.9
20°-30°	2111.2	5.0
30°-40°	3879.5	9.1
40°-50°	7303.2	17.1
50°-60°	12491.5	29.3
60°-70°	11960.6	28.1
70°-80°	3050.0	7.2
80°-90°	155.9	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°	42615.0	100.0
0°-180°	42615.0	100.0

Coefficient of Utilization



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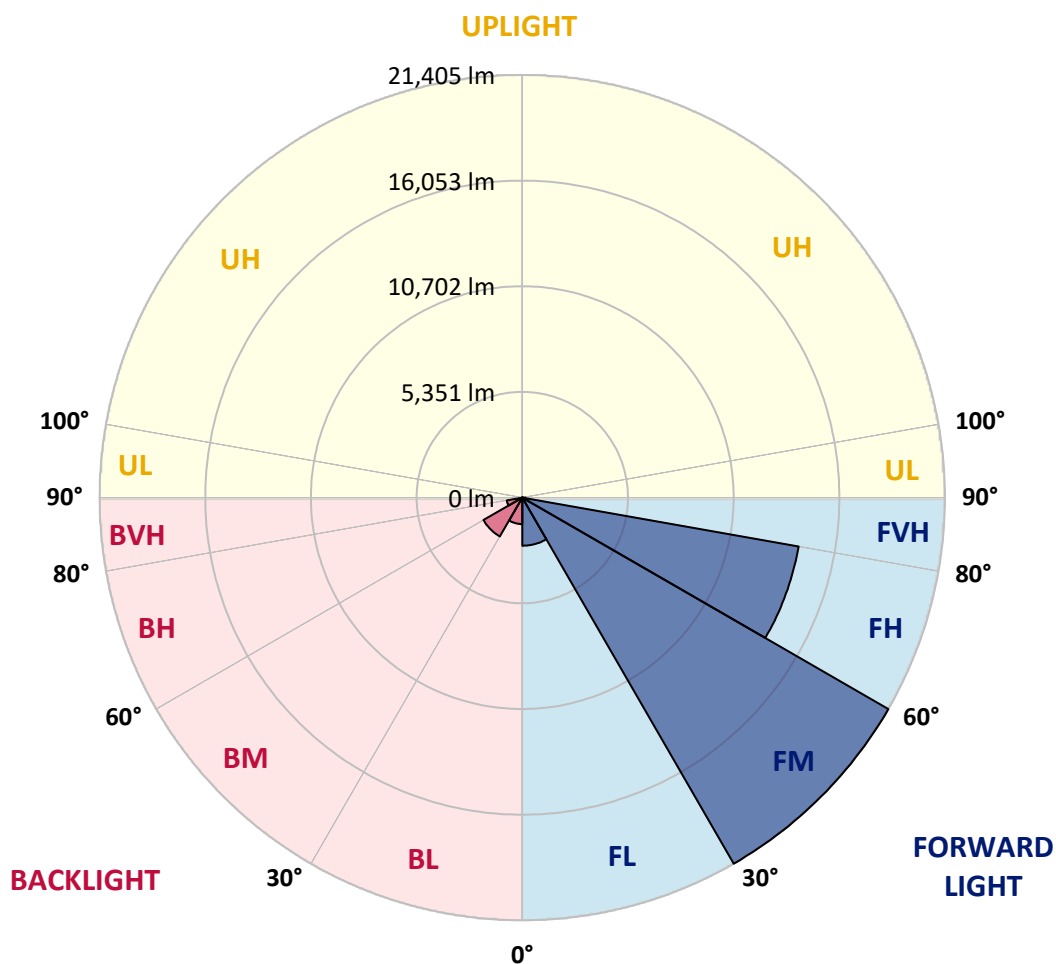
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2436.0	5.7			
FM	(30°-60°)	21404.7	50.2			
FH	(60°-80°)	14211.9	33.3			G5
FVH	(80°-90°)	149.9	0.4			G2/225
BL	(0°-30°)	1338.2	3.1	B3/2500		
BM	(30°-60°)	2269.5	5.3	B2/2500		
BH	(60°-80°)	798.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9
2.5°	4652.2	4668.2	4684.3	4690.7	4713.2	4735.6	4751.7	4748.5	4774.1	4787.0	4787.0
5°	4466.1	4466.1	4507.8	4546.3	4610.5	4674.7	4735.6	4748.5	4796.6	4841.5	4857.5
7.5°	4308.9	4318.5	4350.6	4421.2	4507.8	4620.1	4742.0	4770.9	4854.3	4953.8	4995.5
10°	4235.1	4241.5	4283.2	4357.0	4466.1	4620.1	4790.2	4844.7	4973.0	5130.3	5188.0
12.5°	4219.1	4228.7	4270.4	4353.8	4478.9	4665.0	4896.0	4953.8	5139.9	5342.0	5428.6
15°	4247.9	4254.4	4296.1	4385.9	4523.9	4745.2	5037.2	5117.4	5338.8	5573.0	5685.3
17.5°	4350.6	4344.2	4373.1	4446.9	4600.9	4844.7	5207.3	5303.5	5563.4	5884.2	5958.0
20°	4787.0	4745.2	4719.6	4655.4	4716.4	4985.9	5412.6	5553.8	5874.6	6201.9	6253.2
22.5°	5727.0	5634.0	5451.1	5200.8	5008.3	5178.4	5659.6	5823.3	6237.2	6558.0	6558.0
25°	6923.8	6805.0	6622.2	6076.7	5605.1	5496.0	5938.8	6144.1	6631.8	6955.8	6850.0
27.5°	8422.1	8329.0	7972.9	7337.6	6615.8	6051.1	6262.8	6452.1	6981.5	7372.9	7151.6
30°	9641.3	9596.4	9304.4	8736.5	7940.8	7116.3	6866.0	6991.1	7446.7	7899.1	7671.3
32.5°	10671.2	10671.2	10372.8	9843.4	9099.1	8367.5	7889.5	7979.3	8415.7	8938.6	8515.1
35°	11803.8	11765.3	11524.6	11020.9	10186.7	9541.8	9346.1	9468.0	9862.7	10250.9	9208.2
37.5°	12994.1	12981.2	12731.0	12243.3	11563.1	10751.4	10292.6	10324.7	10526.8	10764.2	10019.9
40°	14287.1	14306.3	13979.1	13677.5	13035.8	12204.8	11325.7	11123.6	11312.9	11983.4	11518.2
42.5°	15814.3	15769.4	15628.2	15217.5	14701.0	14203.7	13148.1	13074.3	13241.1	13959.8	13456.1
45°	17588.5	17652.7	17408.9	17181.1	16834.6	16420.7	15538.4	15410.0	15592.9	16709.4	15994.0
47.5°	19366.0	19305.0	19462.2	19420.5	19606.6	19298.6	18519.0	18255.9	18695.4	19754.2	18701.9
50°	20719.9	20787.3	21114.6	21592.6	22391.5	22564.8	21817.2	21727.4	21923.1	22603.3	21124.2
52.5°	21599.1	21823.6	22337.0	23565.8	25006.4	26126.1	25558.2	25510.1	25429.9	25612.8	23440.7
55°	22173.4	22401.2	23071.7	24881.3	27361.4	29180.5	29209.4	29004.1	28474.7	28343.1	25606.4
57.5°	21820.4	21865.4	22821.5	25240.6	28667.2	31359.1	32302.3	32097.0	31118.4	30621.1	27518.6
60°	19613.0	19706.1	21037.6	23880.2	28099.3	32071.3	34352.5	34259.5	33187.9	32626.4	29007.3
62.5°	15702.0	15971.5	17341.5	20511.4	25458.8	30871.4	35183.5	35446.6	34612.4	33839.2	29475.7
63°	14983.3	14896.7	16343.7	19529.6	24759.3	30277.8	35196.3	35530.0	34676.6	33954.7	29347.4
65°	11091.5	11351.4	12291.4	15400.4	20604.4	27515.4	34403.8	34994.2	34439.1	33444.5	27926.0
67.5°	6227.5	6214.7	7254.2	10077.6	14421.8	21583.0	31108.8	32356.9	32241.4	30011.5	23148.7
70°	3048.0	3096.1	3522.8	5223.3	8364.3	14890.3	25850.2	27197.7	27239.4	23572.2	16006.8
72.5°	1379.6	1402.1	1706.9	2544.3	4299.3	7928.0	17813.1	19099.7	18862.3	15021.8	8839.2
75°	728.3	776.4	940.1	1280.2	2072.6	3269.4	9689.4	10934.3	10437.0	6862.8	3253.3
77.5°	539.0	555.1	638.5	814.9	1110.1	1273.7	4180.6	4973.0	4658.6	2483.3	1078.0
80°	394.6	407.5	474.8	577.5	699.4	648.1	1575.3	1806.3	1620.2	843.8	330.5
82.5°	240.6	243.8	346.5	429.9	439.6	362.6	519.8	558.3	583.9	474.8	179.7
85°	86.6	109.1	234.2	311.2	259.9	182.9	218.2	240.6	263.1	301.6	105.9
87.5°	9.6	12.8	112.3	150.8	73.8	67.4	80.2	89.8	96.3	112.3	51.3
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°	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9	4770.9
2.5°	4799.8	4812.6	4803.0	4787.0	4783.7	4774.1	4754.9	4754.9	4754.9	4761.3	4754.9
5°	4870.4	4880.0	4857.5	4825.5	4790.2	4745.2	4697.1	4668.2	4665.0	4658.6	4642.6
7.5°	5005.1	5018.0	4966.6	4889.6	4793.4	4684.3	4581.6	4485.4	4440.4	4405.2	4405.2
10°	5200.8	5213.7	5111.0	4973.0	4780.5	4559.2	4315.3	4093.9	3920.7	3840.5	3821.2
12.5°	5435.1	5441.5	5271.4	5030.8	4713.2	4286.4	3766.7	3282.2	2945.3	2791.3	2775.3
15°	5691.7	5646.8	5422.2	5053.3	4520.7	3725.0	2826.6	2233.1	1883.3	1780.7	1819.2
17.5°	5951.6	5868.2	5537.7	5018.0	4087.5	2826.6	1899.4	1524.0	1414.9	1386.0	1386.0
20°	6195.5	6079.9	5621.1	4864.0	3336.8	1947.5	1408.5	1318.7	1299.4	1280.2	1283.4
22.5°	6439.3	6262.8	5694.9	4520.7	2486.5	1392.5	1260.9	1232.0	1206.4	1180.7	1177.5
25°	6676.7	6432.9	5723.8	3885.4	1694.0	1196.7	1151.8	1113.3	1062.0	1033.1	1026.7
27.5°	6923.8	6638.2	5704.6	3083.3	1235.2	1071.6	1026.7	972.1	911.2	859.9	859.9
30°	7398.6	7029.6	5637.2	2217.0	1039.5	943.3	885.5	798.9	731.5	680.2	677.0
32.5°	8046.7	7539.8	5406.2	1559.3	924.0	831.0	744.4	648.1	577.5	539.0	539.0
35°	8624.2	8053.1	4973.0	1148.6	831.0	721.9	616.0	523.0	468.4	442.8	433.1
37.5°	9503.3	8803.9	4376.3	933.6	741.1	625.6	516.6	429.9	385.0	365.8	365.8
40°	10822.0	9721.5	3644.8	818.1	654.5	532.6	429.9	362.6	327.3	304.8	304.8
42.5°	12458.3	10844.4	2903.6	734.7	574.3	458.8	359.3	308.0	275.9	259.9	256.7
45°	14518.1	12028.4	2236.3	657.7	510.1	391.4	304.8	259.9	227.8	218.2	221.4
47.5°	16667.7	13071.1	1732.5	590.3	442.8	330.5	259.9	224.6	202.1	189.3	189.3
50°	18502.9	13789.8	1315.5	513.3	391.4	279.1	227.8	202.1	182.9	176.5	173.3
52.5°	20036.6	13998.3	1007.4	446.0	343.3	240.6	202.1	182.9	166.8	157.2	157.2
55°	21342.4	13815.4	789.3	375.4	288.8	208.5	179.7	163.6	144.4	134.8	131.5
57.5°	22106.0	13228.3	603.2	311.2	234.2	173.3	157.2	138.0	115.5	99.5	99.5
60°	22491.0	12374.9	462.0	256.7	179.7	138.0	128.3	102.7	80.2	67.4	64.2
62.5°	22029.0	11242.3	349.7	202.1	134.8	102.7	86.6	73.8	51.3	38.5	38.5
63°	21743.4	10915.0	336.9	192.5	125.1	96.3	80.2	67.4	44.9	35.3	32.1
65°	19821.6	9487.3	275.9	154.0	99.5	67.4	54.5	48.1	32.1	16.0	12.8
67.5°	15740.5	7257.4	218.2	115.5	70.6	48.1	32.1	28.9	9.6	0.0	0.0
70°	10642.3	4687.5	170.0	83.4	48.1	28.9	16.0	12.8	3.2	0.0	0.0
72.5°	5550.6	2403.1	131.5	61.0	28.9	19.3	9.6	3.2	0.0	0.0	0.0
75°	1963.6	818.1	96.3	38.5	19.3	9.6	3.2	0.0	0.0	0.0	0.0
77.5°	593.6	304.8	61.0	28.9	12.8	6.4	0.0	0.0	0.0	0.0	0.0
80°	208.5	112.3	35.3	19.3	9.6	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	102.7	54.5	22.5	16.0	9.6	3.2	0.0	0.0	0.0	0.0	0.0
85°	57.8	35.3	19.3	16.0	9.6	6.4	0.0	0.0	0.0	0.0	0.0
87.5°	41.7	25.7	19.3	16.0	12.8	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)