

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: P457432

Luminaire Tested: **GALN-SA8D-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457432
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-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 41768 lumens
Efficiency: N/A
Efficacy: 84.7 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

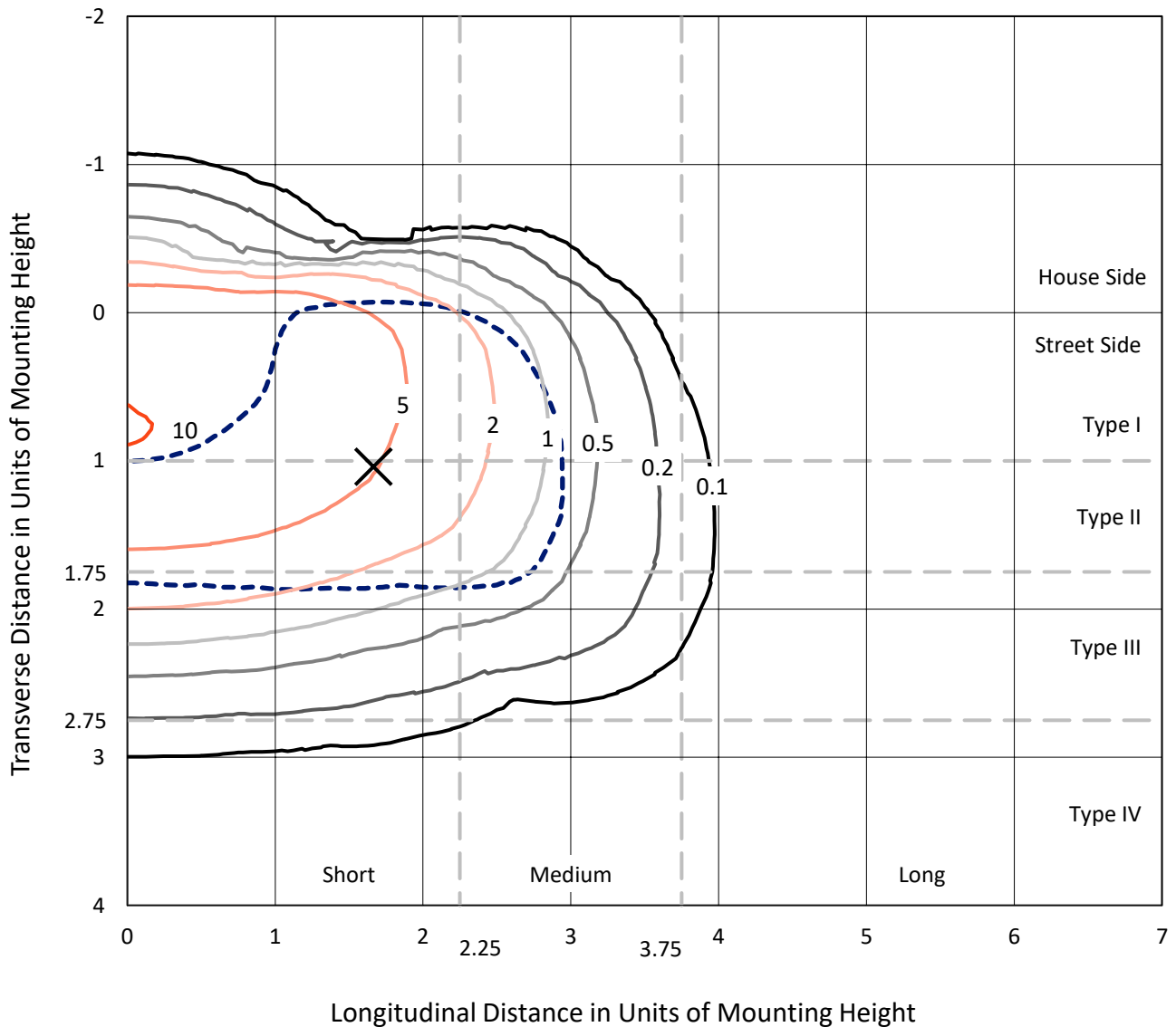
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457432
 CATALOG NUMBER: GALN-SA8D-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

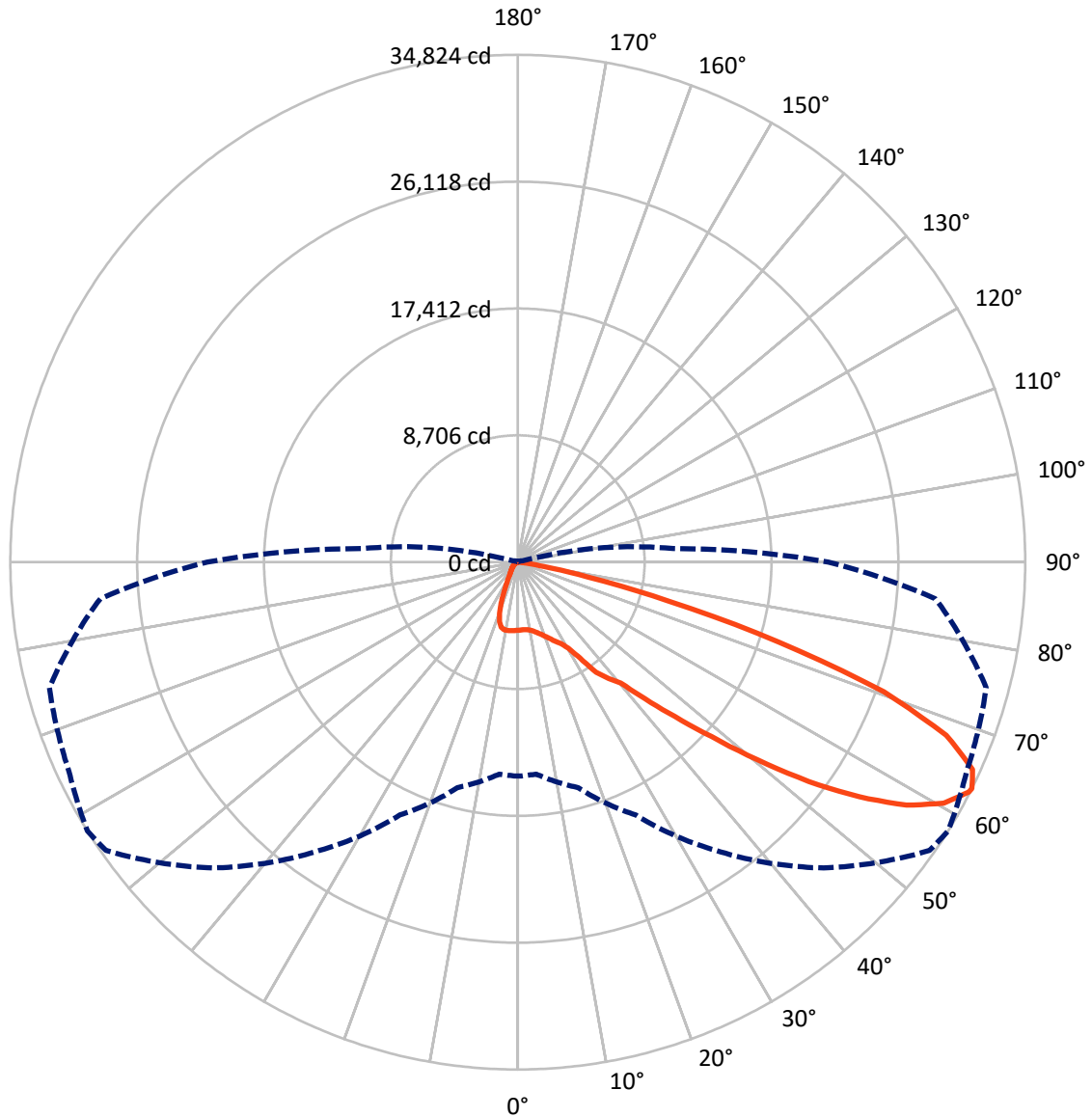
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

REPORT NUMBER: P457432
CATALOG NUMBER: GALN-SA8D-730-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457432

CATALOG NUMBER: GALN-SA8D-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4324.8	0.0	4324.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	37443.2	0.0	37443.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	41768.0	0.0	41768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	1.0
10°-20°	1192.3	2.9
20°-30°	2069.2	5.0
30°-40°	3802.4	9.1
40°-50°	7158.0	17.1
50°-60°	12243.2	29.3
60°-70°	11722.9	28.1
70°-80°	2989.4	7.2
80°-90°	152.8	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°	41768.0	100.0
0°-180°	41768.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457432

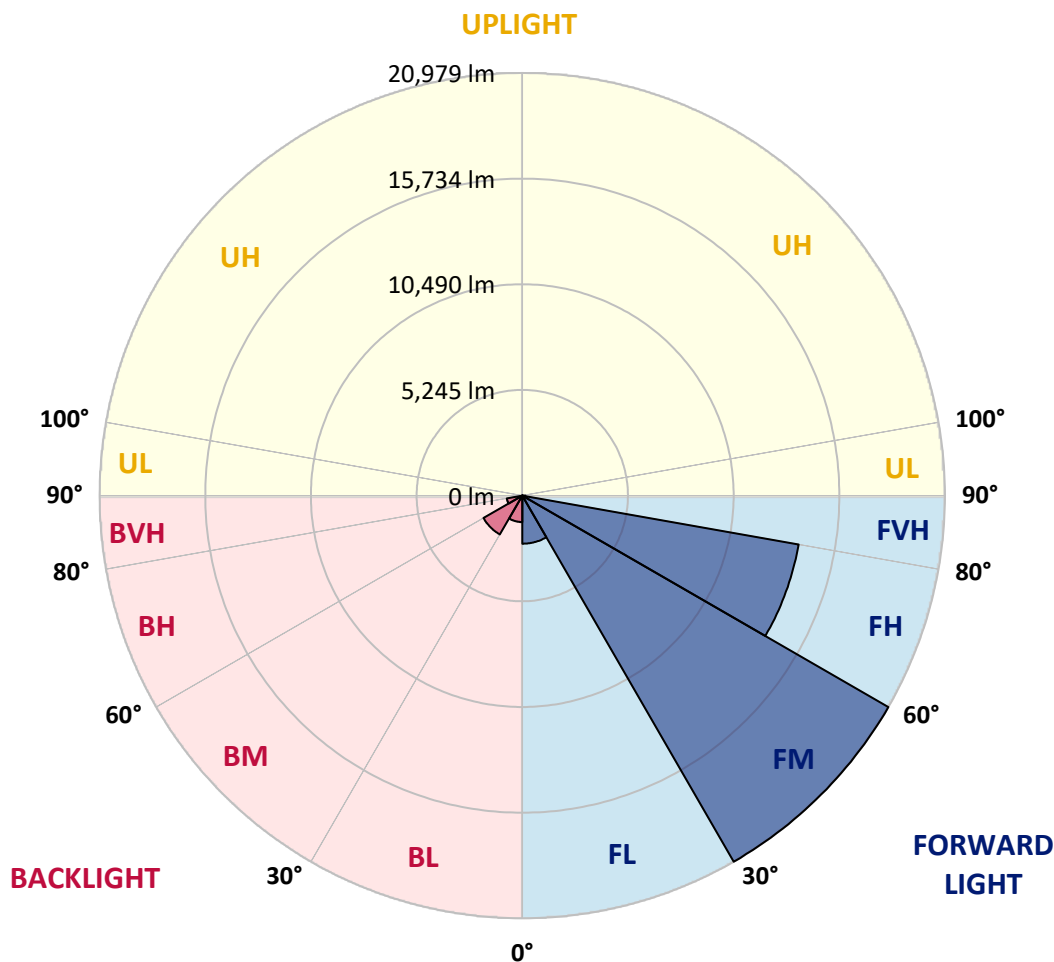
CATALOG NUMBER: GALN-SA8D-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2387.6	5.7			
FM	(30°-60°)	20979.2	50.2			
FH	(60°-80°)	13929.4	33.3			G5
FVH	(80°-90°)	146.9	0.4			G2/225
BL	(0°-30°)	1311.6	3.1	B3/2500		
BM	(30°-60°)	2224.4	5.3	B2/2500		
BH	(60°-80°)	782.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P457432

CATALOG NUMBER: GALN-SA8D-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1
2.5°	4559.7	4575.5	4591.2	4597.5	4619.5	4641.5	4657.2	4654.1	4679.2	4691.8	4691.8
5°	4377.3	4377.3	4418.2	4456.0	4518.9	4581.7	4641.5	4654.1	4701.2	4745.3	4761.0
7.5°	4223.3	4232.7	4264.1	4333.3	4418.2	4528.3	4647.8	4676.1	4757.8	4855.3	4896.2
10°	4150.9	4157.2	4198.1	4270.4	4377.3	4528.3	4695.0	4748.4	4874.2	5028.3	5084.9
12.5°	4135.2	4144.6	4185.5	4267.3	4389.9	4572.3	4798.7	4855.3	5037.7	5235.8	5320.7
15°	4163.5	4169.8	4210.7	4298.7	4434.0	4650.9	4937.1	5015.7	5232.7	5462.3	5572.3
17.5°	4264.1	4257.9	4286.2	4358.5	4509.4	4748.4	5103.8	5198.1	5452.8	5767.3	5839.6
20°	4691.8	4650.9	4625.8	4562.9	4622.6	4886.8	5305.0	5443.4	5757.8	6078.6	6128.9
22.5°	5613.2	5522.0	5342.8	5097.5	4908.8	5075.5	5547.2	5707.5	6113.2	6427.7	6427.7
25°	6786.1	6669.8	6490.6	5956.0	5493.7	5386.8	5820.7	6022.0	6500.0	6817.6	6713.8
27.5°	8254.7	8163.5	7814.4	7191.8	6484.3	5930.8	6138.3	6323.9	6842.8	7226.4	7009.4
30°	9449.7	9405.6	9119.5	8562.9	7783.0	6974.8	6729.5	6852.2	7298.7	7742.1	7518.8
32.5°	10459.1	10459.1	10166.6	9647.8	8918.2	8201.2	7732.7	7820.7	8248.4	8761.0	8345.9
35°	11569.2	11531.4	11295.6	10801.9	9984.3	9352.2	9160.4	9279.9	9666.6	10047.1	9025.1
37.5°	12735.8	12723.2	12478.0	12000.0	11333.3	10537.7	10088.0	10119.5	10317.6	10550.3	9820.7
40°	14003.1	14022.0	13701.2	13405.6	12776.7	11962.2	11100.6	10902.5	11088.0	11745.3	11289.3
42.5°	15500.0	15455.9	15317.6	14915.1	14408.8	13921.3	12886.8	12814.4	12978.0	13682.4	13188.6
45°	17239.0	17301.8	17062.9	16839.6	16500.0	16094.3	15229.5	15103.7	15283.0	16377.3	15676.1
47.5°	18981.1	18921.3	19075.4	19034.5	19216.9	18915.0	18150.9	17893.0	18323.9	19361.6	18330.1
50°	20308.1	20374.2	20694.9	21163.5	21946.5	22116.3	21383.6	21295.5	21487.4	22154.0	20704.4
52.5°	21169.8	21389.9	21893.0	23097.4	24509.4	25606.9	25050.3	25003.1	24924.5	25103.7	22974.8
55°	21732.7	21955.9	22613.2	24386.7	26817.5	28600.6	28628.9	28427.6	27908.7	27779.8	25097.4
57.5°	21386.7	21430.8	22367.9	24738.9	28097.4	30735.8	31660.3	31459.0	30499.9	30012.5	26971.6
60°	19223.2	19314.4	20619.4	23405.6	27540.8	31433.9	33669.7	33578.5	32528.2	31977.9	28430.7
62.5°	15389.9	15654.0	16996.8	20103.7	24952.8	30257.8	34484.2	34742.1	33924.4	33166.6	28889.9
63°	14685.5	14600.6	16018.8	19141.5	24267.2	29676.0	34496.8	34823.8	33987.3	33279.8	28764.1
65°	10871.0	11125.8	12047.1	15094.3	20194.9	26968.5	33720.0	34298.7	33754.6	32779.8	27371.0
67.5°	6103.8	6091.2	7110.0	9877.3	14135.2	21154.0	30490.5	31713.8	31600.6	29415.0	22688.6
70°	2987.4	3034.6	3452.8	5119.5	8198.1	14594.3	25336.4	26657.2	26698.0	23103.7	15688.6
72.5°	1352.2	1374.2	1673.0	2493.7	4213.8	7770.4	17459.1	18720.1	18487.4	14723.2	8663.5
75°	713.8	761.0	921.4	1254.7	2031.4	3204.4	9496.8	10717.0	10229.5	6726.4	3188.7
77.5°	528.3	544.0	625.8	798.7	1088.0	1248.4	4097.5	4874.2	4566.0	2434.0	1056.6
80°	386.8	399.4	465.4	566.0	685.5	635.2	1544.0	1770.4	1588.0	827.0	323.9
82.5°	235.8	239.0	339.6	421.4	430.8	355.3	509.4	547.2	572.3	465.4	176.1
85°	84.9	106.9	229.6	305.0	254.7	179.2	213.8	235.8	257.9	295.6	103.8
87.5°	9.4	12.6	110.1	147.8	72.3	66.0	78.6	88.1	94.3	110.1	50.3
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: P457432
 CATALOG NUMBER: GALN-SA8D-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1	4676.1
2.5°	4704.4	4717.0	4707.5	4691.8	4688.7	4679.2	4660.4	4660.4	4660.4	4666.7	4660.4
5°	4773.6	4783.0	4761.0	4729.5	4695.0	4650.9	4603.8	4575.5	4572.3	4566.0	4550.3
7.5°	4905.6	4918.2	4867.9	4792.4	4698.1	4591.2	4490.6	4396.2	4352.2	4317.6	4317.6
10°	5097.5	5110.1	5009.4	4874.2	4685.5	4468.5	4229.5	4012.6	3842.8	3764.1	3745.3
12.5°	5327.0	5333.3	5166.7	4930.8	4619.5	4201.2	3691.8	3217.0	2886.8	2735.8	2720.1
15°	5578.6	5534.6	5314.5	4952.8	4430.8	3650.9	2770.4	2188.7	1845.9	1745.3	1783.0
17.5°	5833.3	5751.6	5427.7	4918.2	4006.3	2770.4	1861.6	1493.7	1386.8	1358.5	1358.5
20°	6072.3	5959.1	5509.4	4767.3	3270.4	1908.8	1380.5	1292.4	1273.6	1254.7	1257.9
22.5°	6311.3	6138.3	5581.7	4430.8	2437.1	1364.8	1235.8	1207.5	1182.4	1157.2	1154.1
25°	6544.0	6305.0	5610.0	3808.2	1660.4	1173.0	1128.9	1091.2	1040.9	1012.6	1006.3
27.5°	6786.1	6506.3	5591.2	3022.0	1210.7	1050.3	1006.3	952.8	893.1	842.8	842.8
30°	7251.6	6889.9	5525.1	2173.0	1018.9	924.5	867.9	783.0	717.0	666.7	663.5
32.5°	7886.8	7389.9	5298.7	1528.3	905.7	814.5	729.6	635.2	566.0	528.3	528.3
35°	8452.8	7893.1	4874.2	1125.8	814.5	707.5	603.8	512.6	459.1	434.0	424.5
37.5°	9314.4	8628.9	4289.3	915.1	726.4	613.2	506.3	421.4	377.4	358.5	358.5
40°	10606.9	9528.3	3572.3	801.9	641.5	522.0	421.4	355.3	320.8	298.7	298.7
42.5°	12210.7	10628.9	2845.9	720.1	562.9	449.7	352.2	301.9	270.4	254.7	251.6
45°	14229.5	11789.3	2191.8	644.7	500.0	383.6	298.7	254.7	223.3	213.8	217.0
47.5°	16336.4	12811.3	1698.1	578.6	434.0	323.9	254.7	220.1	198.1	185.5	185.5
50°	18135.2	13515.7	1289.3	503.1	383.6	273.6	223.3	198.1	179.2	173.0	169.8
52.5°	19638.3	13720.1	987.4	437.1	336.5	235.8	198.1	179.2	163.5	154.1	154.1
55°	20918.2	13540.8	773.6	367.9	283.0	204.4	176.1	160.4	141.5	132.1	128.9
57.5°	21666.6	12965.4	591.2	305.0	229.6	169.8	154.1	135.2	113.2	97.5	97.5
60°	22044.0	12128.9	452.8	251.6	176.1	135.2	125.8	100.6	78.6	66.0	62.9
62.5°	21591.1	11018.8	342.8	198.1	132.1	100.6	84.9	72.3	50.3	37.7	37.7
63°	21311.3	10698.1	330.2	188.7	122.6	94.3	78.6	66.0	44.0	34.6	31.4
65°	19427.6	9298.7	270.4	150.9	97.5	66.0	53.5	47.2	31.4	15.7	12.6
67.5°	15427.6	7113.2	213.8	113.2	69.2	47.2	31.4	28.3	9.4	0.0	0.0
70°	10430.8	4594.3	166.7	81.8	47.2	28.3	15.7	12.6	3.1	0.0	0.0
72.5°	5440.2	2355.3	128.9	59.7	28.3	18.9	9.4	3.1	0.0	0.0	0.0
75°	1924.5	801.9	94.3	37.7	18.9	9.4	3.1	0.0	0.0	0.0	0.0
77.5°	581.8	298.7	59.7	28.3	12.6	6.3	0.0	0.0	0.0	0.0	0.0
80°	204.4	110.1	34.6	18.9	9.4	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	100.6	53.5	22.0	15.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0
85°	56.6	34.6	18.9	15.7	9.4	6.3	0.0	0.0	0.0	0.0	0.0
87.5°	40.9	25.2	18.9	15.7	12.6	6.3	3.1	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)