

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: P453707

Luminaire Tested: **GALN-SA4D-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23055 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

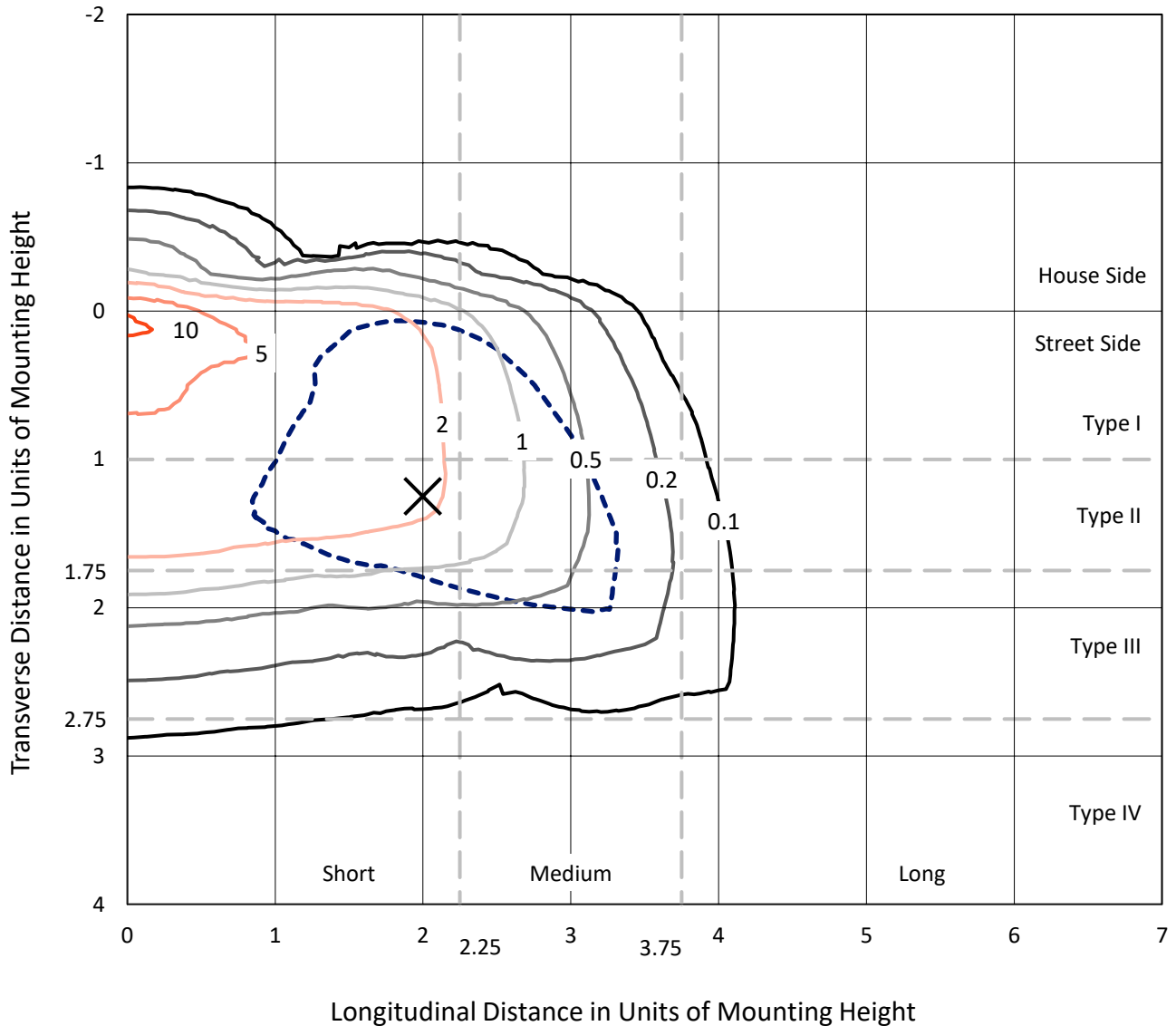
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453707
 CATALOG NUMBER: GALN-SA4D-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

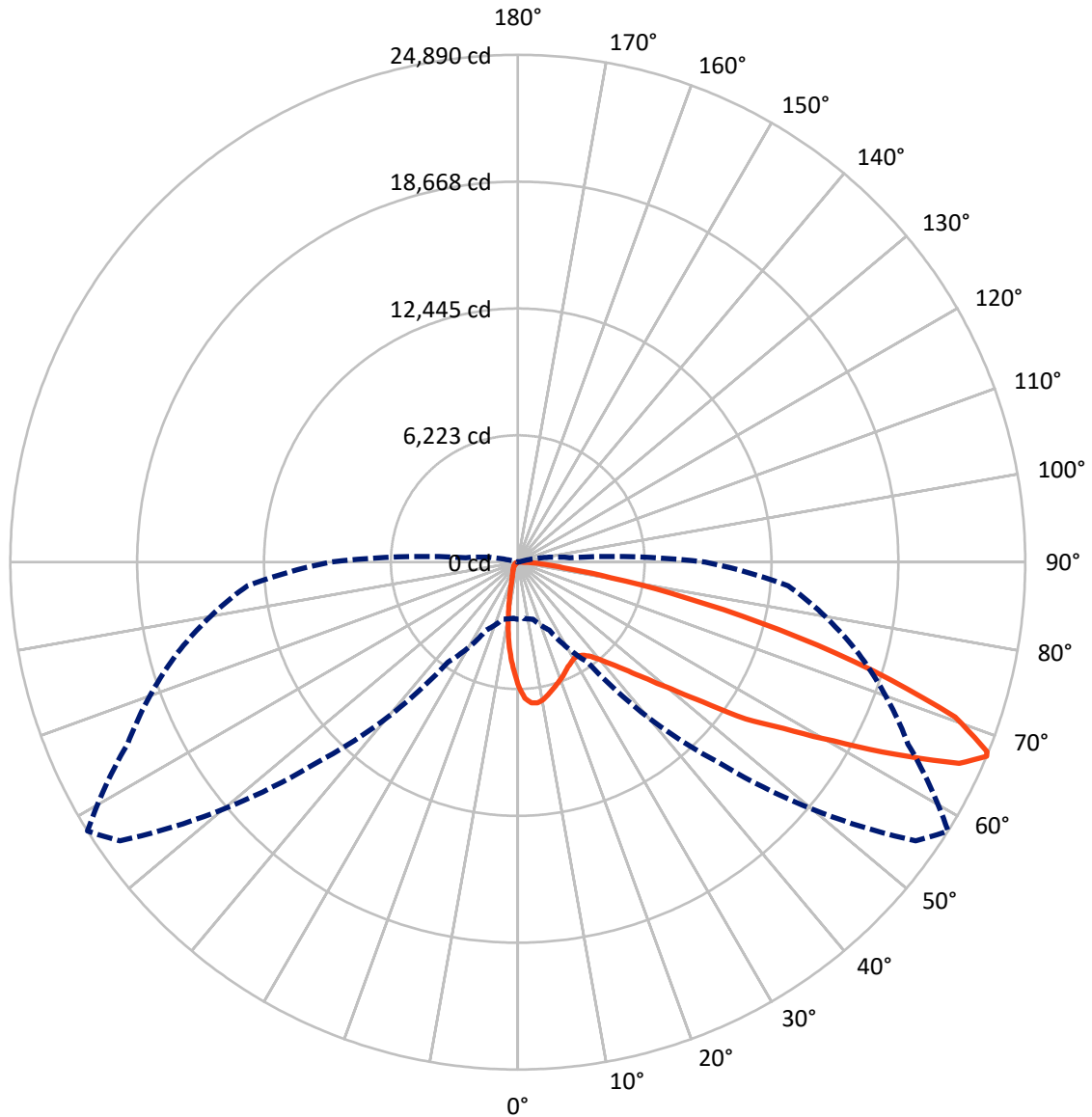
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

REPORT NUMBER: P453707
CATALOG NUMBER: GALN-SA4D-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P453707

CATALOG NUMBER: GALN-SA4D-730-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.8	0.0	1663.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21391.2	0.0	21391.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	23055.0	0.0	23055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.9	2.2
10°-20°	1071.1	4.6
20°-30°	1451.5	6.3
30°-40°	2013.1	8.7
40°-50°	3210.6	13.9
50°-60°	5549.8	24.1
60°-70°	6339.6	27.5
70°-80°	2643.0	11.5
80°-90°	280.2	1.2
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°	23055.0	100.0
0°-180°	23055.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453707

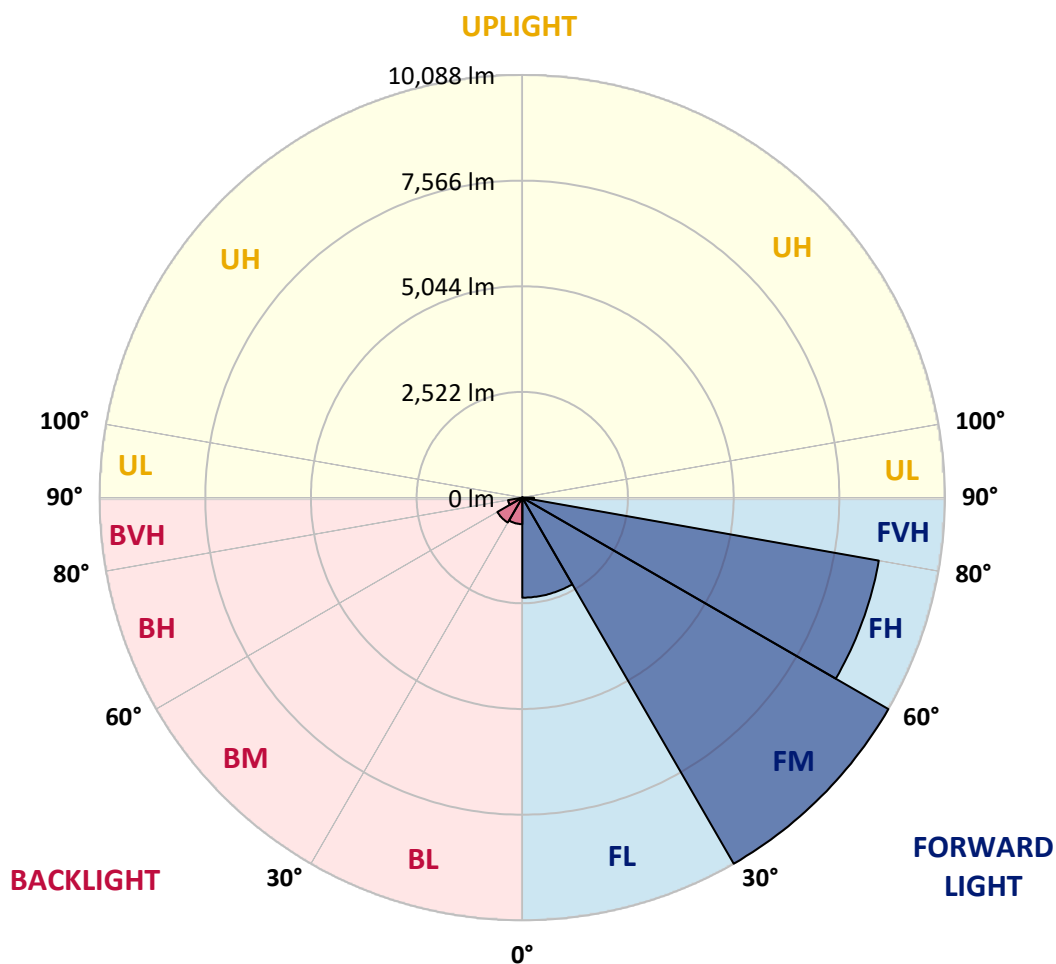
CATALOG NUMBER: GALN-SA4D-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.7	10.4			
FM (30°-60°)	10087.5	43.8			
FH (60°-80°)	8638.7	37.5			G4/12000
FVH (80°-90°)	278.2	1.2			G3/500
BL (0°-30°)	631.8	2.7	B2/1000		
BM (30°-60°)	686.0	3.0	B1/1000		
BH (60°-80°)	344.0	1.5	B1/500		G1/500
BVH (80°-90°)	2.0	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 III Short





REPORT NUMBER: P453707

CATALOG NUMBER: GALN-SA4D-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7
2.5°	7093.0	7103.8	7063.8	7031.4	6948.2	6858.9	6740.2	6677.1	6569.2	6382.8	6176.4
5°	7259.4	7273.3	7267.1	7259.4	7227.1	7140.8	6989.8	6934.4	6775.7	6472.2	6099.3
7.5°	6889.7	6940.5	6946.7	7006.8	7063.8	7071.5	7014.5	6972.9	6826.5	6470.6	5962.2
10°	6399.8	6433.7	6483.0	6552.3	6689.4	6803.4	6858.9	6852.7	6768.0	6422.9	5802.0
12.5°	5905.2	5923.7	5999.2	6117.8	6285.8	6479.9	6627.8	6657.1	6658.6	6365.9	5668.0
15°	5480.0	5472.3	5530.9	5668.0	5903.7	6147.1	6412.1	6458.3	6532.3	6310.4	5543.2
17.5°	5116.4	5156.5	5165.7	5316.7	5533.9	5849.8	6187.2	6268.8	6416.7	6262.7	5440.0
20°	4891.5	4913.1	4933.1	5017.8	5213.5	5546.3	5976.1	6088.6	6308.9	6219.5	5324.4
22.5°	4825.2	4839.1	4822.2	4848.4	4987.0	5282.8	5746.5	5896.0	6205.6	6179.5	5230.4
25°	4876.1	4890.0	4849.9	4819.1	4866.8	5068.7	5524.7	5706.5	6122.5	6171.8	5159.6
27.5°	4999.3	5025.5	4970.1	4914.6	4886.9	4953.1	5350.6	5561.7	6065.4	6208.7	5127.2
30°	5191.9	5207.3	5165.7	5097.9	5034.8	4968.5	5259.7	5461.5	6050.0	6295.0	5124.1
32.5°	5401.4	5433.8	5410.7	5366.0	5284.4	5127.2	5285.9	5464.6	6087.0	6419.8	5162.6
35°	5660.3	5697.2	5718.8	5709.6	5604.8	5409.1	5452.3	5603.3	6185.6	6649.3	5267.4
37.5°	5914.5	5946.8	6068.5	6110.1	6017.7	5832.8	5775.8	5876.0	6402.8	6949.8	5456.9
40°	6205.6	6248.8	6419.8	6578.5	6533.8	6339.7	6234.9	6318.1	6735.6	7402.7	5815.9
42.5°	6484.5	6561.5	6821.9	7102.3	7143.9	6926.7	6857.3	6885.1	7228.6	8054.4	6316.6
45°	6880.4	6952.9	7288.7	7669.2	7864.9	7695.4	7624.6	7619.9	7905.0	8971.1	7128.5
47.5°	7452.0	7516.7	7912.7	8288.6	8636.8	8659.9	8525.8	8572.1	8755.4	10043.3	8123.7
50°	8153.0	8305.5	8565.9	8957.2	9422.5	9798.4	9840.0	9778.4	9935.5	11285.1	9319.3
52.5°	9171.4	9229.9	9468.7	9790.7	10336.1	10973.9	11468.4	11383.7	11334.4	12468.3	10527.1
55°	9930.9	10009.5	10380.7	10822.9	11622.5	12463.7	13536.0	13565.2	12942.8	13605.3	11708.8
57.5°	9701.3	9821.5	10383.8	11272.8	13030.6	14568.2	15366.2	15386.2	14431.1	14709.9	13043.0
60°	8522.8	8579.8	9385.5	10571.8	13150.8	16848.3	17962.2	17800.4	15945.5	15945.5	14221.5
62.5°	6043.9	6133.2	6786.5	8532.0	11876.7	17640.2	21071.2	20736.8	18031.5	17127.2	14924.1
65°	3862.4	3776.1	4209.0	5386.0	8847.8	16470.8	23778.0	23798.1	19994.3	17600.1	14540.4
67°	2797.8	2763.9	2888.7	3682.1	5999.2	13845.6	23835.0	24890.4	21122.0	17301.2	13314.1
67.5°	2559.0	2585.2	2676.1	3321.6	5450.7	12599.3	23576.2	24825.7	21376.2	17121.0	12870.4
70°	1939.6	1895.0	1993.6	2349.5	3267.7	7948.1	20280.8	22768.9	21060.4	15332.3	10283.7
72.5°	1426.6	1422.0	1559.1	1921.2	2515.8	4233.6	15224.5	18256.4	17205.7	11674.9	6475.3
75°	962.9	1006.0	1224.8	1605.3	2280.1	2745.4	10379.2	13244.8	11944.5	6629.3	2646.8
77.5°	548.5	551.5	788.8	1289.5	2047.5	2209.3	6150.2	8438.0	6322.7	2204.6	785.7
80°	237.3	260.4	391.3	936.7	1697.8	1956.6	3526.5	4637.3	2557.4	466.8	254.2
82.5°	87.8	103.2	172.6	576.2	1238.7	1611.5	2130.7	2213.9	867.4	164.8	158.7
85°	0.0	3.1	63.2	269.6	645.5	719.5	1423.5	1312.6	383.6	78.6	103.2
87.5°	0.0	0.0	0.0	27.7	84.7	268.1	442.2	493.0	92.4	27.7	24.7
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: P453707

CATALOG NUMBER: GALN-SA4D-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7	6111.7
2.5°	6065.4	5965.3	5714.2	5463.1	5276.6	5121.0	4886.9	4759.0	4691.2	4591.1	4597.2
5°	5912.9	5709.6	5267.4	4809.8	4440.1	4079.6	3648.2	3474.1	3327.8	3244.6	3189.1
7.5°	5686.5	5386.0	4731.3	4121.2	3552.7	2922.6	2449.6	2133.8	1921.2	1842.6	1767.1
10°	5438.4	5039.4	4187.4	3341.6	2552.8	1902.7	1502.1	1212.5	1109.3	1013.7	1023.0
12.5°	5208.9	4723.6	3688.3	2637.6	1788.7	1209.4	942.9	824.2	790.3	779.6	779.6
15°	5020.9	4421.6	3152.1	1982.8	1226.3	868.9	754.9	722.6	710.2	707.1	707.1
17.5°	4820.6	4135.0	2668.4	1465.1	892.0	727.2	688.7	667.1	662.5	659.4	659.4
20°	4641.9	3846.9	2209.3	1090.8	721.0	654.8	630.1	616.3	611.6	608.5	610.1
22.5°	4472.4	3591.2	1777.9	824.2	634.7	596.2	571.6	557.7	548.5	540.8	542.3
25°	4321.5	3344.7	1429.7	674.8	571.6	537.7	513.0	493.0	473.0	463.7	462.2
27.5°	4215.2	3129.0	1113.9	577.7	514.6	477.6	446.8	422.1	395.9	382.1	379.0
30°	4127.3	2910.2	881.2	509.9	457.6	422.1	383.6	348.2	320.5	306.6	300.4
32.5°	4070.3	2702.3	694.8	454.5	409.8	366.7	323.5	288.1	257.3	243.4	240.3
35°	4061.1	2528.2	568.5	408.3	366.7	320.5	275.8	237.3	211.1	197.2	194.1
37.5°	4127.3	2394.1	476.1	371.3	331.2	280.4	231.1	195.7	172.6	161.8	160.2
40°	4304.5	2309.4	412.9	340.5	298.9	243.4	197.2	166.4	143.3	132.5	132.5
42.5°	4641.9	2312.5	371.3	311.2	266.5	208.0	167.9	138.7	118.6	109.4	106.3
45°	5168.8	2417.2	335.9	281.9	235.7	180.3	143.3	114.0	94.0	86.3	86.3
47.5°	5874.4	2625.2	305.0	252.7	208.0	154.1	121.7	92.4	75.5	67.8	67.8
50°	6797.2	2959.5	278.9	228.0	184.9	132.5	98.6	75.5	58.5	52.4	50.8
52.5°	7761.7	3372.4	248.0	206.4	158.7	112.5	80.1	58.5	44.7	40.1	38.5
55°	8826.3	3776.1	218.8	184.9	129.4	94.0	63.2	46.2	32.4	27.7	27.7
57.5°	9900.1	4172.0	183.3	154.1	101.7	69.3	49.3	33.9	21.6	16.9	16.9
60°	10809.0	4299.9	155.6	124.8	77.0	49.3	35.4	21.6	12.3	7.7	7.7
62.5°	10933.8	3868.5	131.0	95.5	55.5	33.9	18.5	12.3	4.6	3.1	3.1
65°	10256.0	3142.9	109.4	72.4	37.0	16.9	7.7	4.6	1.5	0.0	0.0
67°	9189.8	2548.2	89.4	53.9	26.2	10.8	4.6	1.5	0.0	0.0	0.0
67.5°	8917.2	2429.6	86.3	50.8	23.1	9.2	3.1	1.5	0.0	0.0	0.0
70°	6997.5	1819.5	61.6	30.8	13.9	6.2	0.0	0.0	0.0	0.0	0.0
72.5°	4349.2	1029.1	44.7	18.5	9.2	3.1	0.0	0.0	0.0	0.0	0.0
75°	1643.8	360.5	30.8	12.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	511.5	137.1	18.5	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	172.6	52.4	12.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	106.3	21.6	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.2	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	3.1	1.5	0.0	0.0	0.0	0.0	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)