

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: P455101

Luminaire Tested: **GALN-SA6B-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25277 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

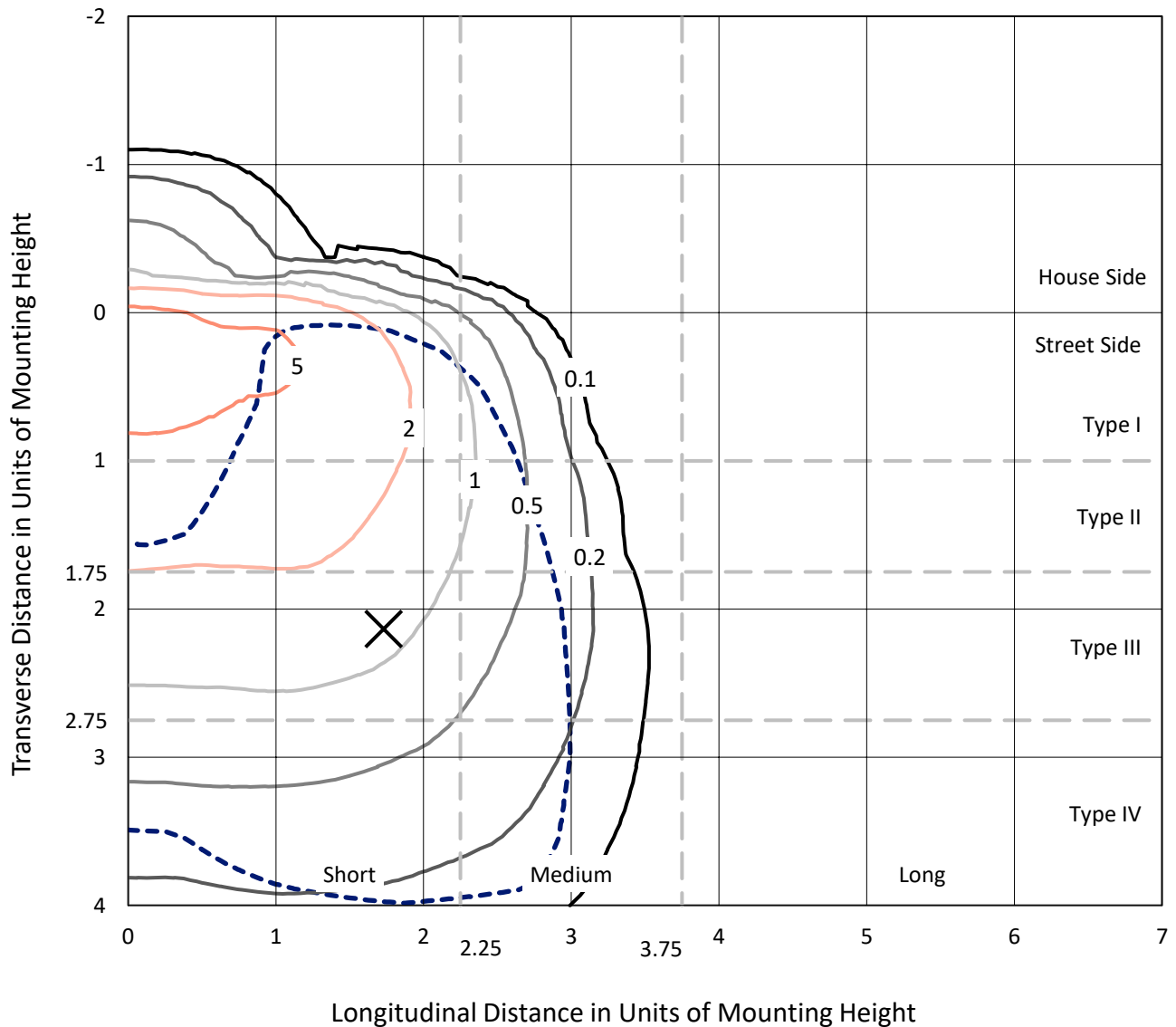
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

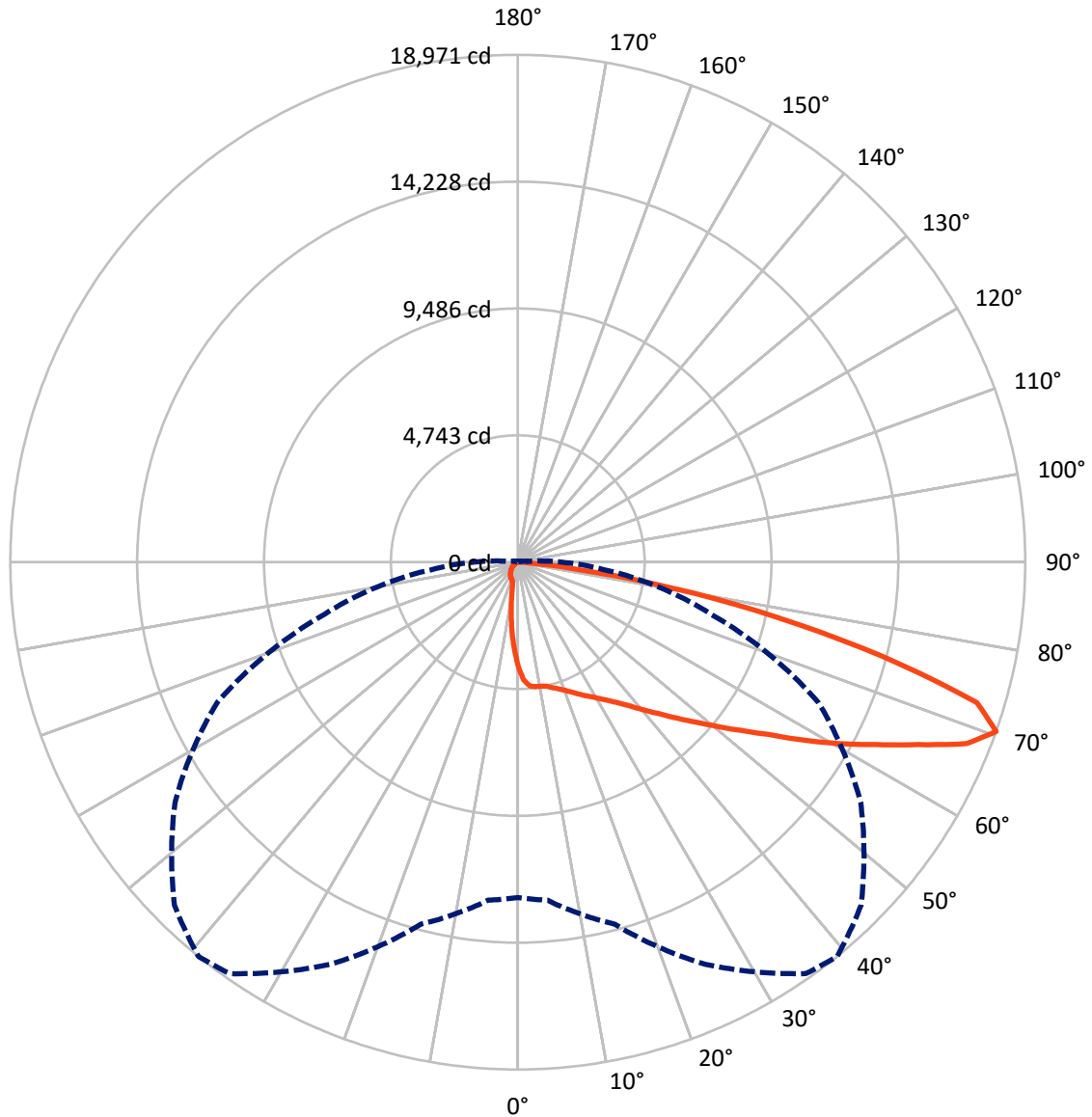
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.2	0.0	1648.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	23628.8	0.0	23628.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	25277.0	0.0	25277.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.4	1.3
10°-20°	874.2	3.5
20°-30°	1464.5	5.8
30°-40°	2271.3	9.0
40°-50°	3599.4	14.2
50°-60°	5276.2	20.9
60°-70°	6762.8	26.8
70°-80°	4249.5	16.8
80°-90°	442.7	1.8
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°	25277.0	100.0
0°-180°	25277.0	100.0



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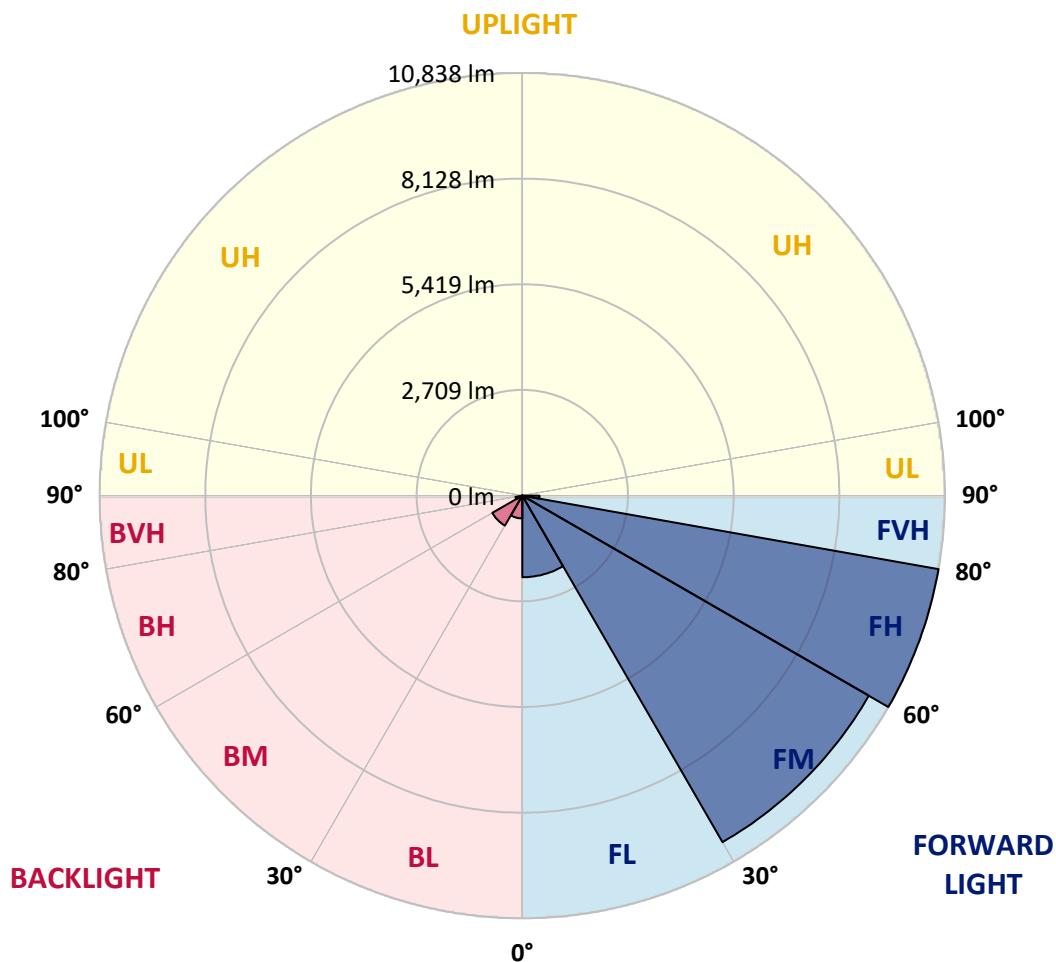
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2091.5	8.3			
FM	(30°-60°)	10259.9	40.6			
FH	(60°-80°)	10838.0	42.9			G4/12000
FVH	(80°-90°)	439.4	1.7			G3/500
BL	(0°-30°)	583.6	2.3	B2/1000		
BM	(30°-60°)	887.0	3.5	B1/1000		
BH	(60°-80°)	174.3	0.7	B1/500		G1/500
BVH	(80°-90°)	3.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1
2.5°	4557.3	4542.0	4521.6	4497.8	4429.9	4418.0	4377.2	4290.6	4187.0	4102.0	3984.8
5°	4773.0	4781.5	4766.2	4723.7	4674.5	4645.6	4594.6	4460.4	4326.3	4154.7	3962.8
7.5°	4822.2	4839.2	4820.5	4779.8	4732.2	4701.6	4660.9	4545.4	4389.1	4193.8	3930.5
10°	4817.1	4837.5	4825.6	4788.3	4749.2	4720.3	4676.2	4584.4	4458.7	4253.2	3940.7
12.5°	4808.7	4835.8	4834.1	4815.4	4783.2	4761.1	4733.9	4652.4	4535.2	4339.8	3996.7
15°	4784.9	4818.8	4849.4	4864.7	4866.4	4866.4	4832.4	4745.8	4633.7	4453.6	4069.8
17.5°	4795.1	4834.1	4910.6	4954.7	4985.3	4981.9	4946.2	4852.8	4728.8	4570.9	4146.2
20°	4857.9	4910.6	5017.6	5105.9	5136.5	5126.3	5078.7	4970.0	4829.0	4671.1	4220.9
22.5°	5012.5	5060.0	5194.2	5297.8	5319.9	5292.7	5224.8	5077.0	4949.6	4779.8	4311.0
25°	5243.5	5299.5	5423.5	5501.7	5501.7	5486.4	5391.3	5218.0	5085.5	4930.9	4428.2
27.5°	5523.7	5571.3	5693.6	5763.2	5722.5	5678.3	5583.2	5374.3	5246.9	5121.2	4569.2
30°	5807.4	5838.0	5967.1	5997.6	5955.2	5899.1	5797.2	5588.3	5476.2	5379.4	4773.0
32.5°	6075.8	6142.0	6249.0	6242.2	6184.5	6157.3	6063.9	5841.4	5778.5	5768.3	5058.3
35°	6344.2	6395.1	6490.2	6514.0	6463.1	6458.0	6390.0	6225.3	6227.0	6293.2	5503.4
37.5°	6575.2	6621.0	6733.1	6785.8	6796.0	6821.5	6794.3	6685.6	6840.1	7021.9	6092.8
40°	6768.8	6833.3	6976.0	7067.7	7173.1	7266.5	7271.6	7295.4	7606.2	7918.7	6862.2
42.5°	6920.0	7010.0	7217.2	7387.1	7628.3	7747.2	7842.3	7973.1	8496.2	8963.4	7769.3
45°	7117.0	7220.6	7478.8	7745.5	8122.6	8317.9	8450.4	8800.3	9542.6	10179.5	8700.1
47.5°	7443.1	7497.5	7760.8	8149.7	8645.7	8924.3	9182.5	9712.4	10665.3	11236.0	9474.6
50°	7862.7	7898.3	8097.1	8637.2	9279.3	9646.2	10116.7	10740.1	11830.5	12112.5	9912.9
52.5°	8326.4	8338.3	8487.8	9174.0	9989.3	10451.3	10977.9	11747.3	12780.0	12737.6	10203.3
55°	8864.8	8847.8	8975.2	9756.6	10830.1	11358.3	11971.5	12778.3	13603.8	13180.9	10369.8
57.5°	9481.4	9435.6	9559.6	10529.4	11907.0	12538.8	13162.2	13668.4	14242.5	13552.9	10449.6
60°	10126.9	10035.2	10182.9	11397.4	13175.8	13775.4	14293.5	14429.4	14915.1	13848.4	10312.0
62.5°	10641.5	10643.2	10918.4	12321.4	14480.3	15005.2	15280.3	15402.6	15494.4	13783.9	9588.4
65°	11445.0	11472.1	11912.1	13603.8	15990.3	16445.6	16634.1	16236.6	15519.8	12982.2	8501.3
67.5°	12273.9	12360.5	13165.6	15370.4	17734.8	18101.7	17858.8	16398.0	14826.8	11152.8	6446.1
70°	12543.9	12686.6	14013.2	16586.5	18781.1	18971.3	18149.2	15645.5	12394.5	7456.7	3244.3
72.5°	11494.2	11725.2	13525.7	16143.2	18113.5	17948.8	16238.3	13121.5	7879.7	2831.5	990.3
75°	8105.6	8207.5	11241.1	13391.5	14568.6	14101.5	12352.0	8458.9	3240.9	794.9	339.7
77.5°	4185.3	4136.0	6685.6	8885.2	10390.2	9906.1	8088.6	4378.9	1228.1	331.2	210.6
80°	2164.0	2199.6	2892.7	4655.8	6342.5	5836.3	4312.7	2029.8	653.9	183.4	161.4
82.5°	1212.8	1138.0	1662.9	2033.2	2965.7	2325.3	1654.4	1437.0	285.4	110.4	152.9
85°	220.8	231.0	912.1	1099.0	1029.3	653.9	533.4	959.7	83.2	61.1	107.0
87.5°	3.4	3.4	176.7	315.9	200.4	91.7	168.2	137.6	17.0	23.8	18.7
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°	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1	3944.1
2.5°	3925.4	3860.8	3740.3	3621.4	3470.2	3346.2	3263.0	3176.3	3088.0	3094.8	3115.2
5°	3857.5	3745.3	3507.5	3256.2	3015.0	2797.5	2583.5	2391.6	2313.5	2242.1	2245.5
7.5°	3789.5	3631.5	3283.3	2889.3	2524.1	2153.8	1885.4	1664.6	1547.4	1459.1	1433.6
10°	3758.9	3550.0	3077.8	2536.0	2017.9	1613.6	1268.8	1088.8	949.5	905.3	917.2
12.5°	3772.5	3509.2	2892.7	2216.6	1600.1	1124.5	883.3	791.5	761.0	755.9	752.5
15°	3798.0	3480.4	2710.9	1863.3	1175.4	835.7	742.3	725.3	721.9	718.5	720.2
17.5°	3832.0	3454.9	2517.3	1532.1	901.9	730.4	703.2	694.7	693.0	693.0	693.0
20°	3865.9	3426.0	2301.6	1236.6	752.5	689.6	672.6	667.5	665.8	665.8	664.1
22.5°	3905.0	3400.5	2082.4	971.6	693.0	660.7	645.5	642.1	640.4	638.7	638.7
25°	3961.1	3368.3	1849.7	794.9	655.6	633.6	618.3	614.9	613.2	606.4	608.1
27.5°	4035.8	3344.5	1610.2	686.2	621.7	599.6	589.4	584.3	580.9	575.8	577.5
30°	4137.7	3324.1	1355.5	626.8	582.6	563.9	553.7	550.3	546.9	541.8	541.8
32.5°	4314.4	3332.6	1087.1	579.2	546.9	524.9	514.7	511.3	507.9	502.8	502.8
35°	4579.3	3381.9	869.7	538.4	504.5	482.4	472.2	472.2	467.1	460.3	458.6
37.5°	5012.5	3507.5	698.1	499.4	463.7	443.3	431.4	428.0	422.9	412.8	411.1
40°	5523.7	3702.9	587.7	460.3	426.3	406.0	395.8	385.6	372.0	361.8	360.1
42.5°	6165.8	3903.3	509.6	421.2	390.7	372.0	360.1	343.1	322.7	309.1	307.4
45°	6835.0	4086.8	456.9	385.6	356.7	341.4	327.8	300.6	275.2	258.2	256.5
47.5°	7334.4	4120.7	414.5	351.6	327.8	312.5	293.9	259.9	225.9	210.6	205.5
50°	7570.5	3956.0	370.3	317.6	298.9	282.0	258.2	219.1	181.7	163.1	159.7
52.5°	7653.8	3670.6	334.6	287.1	270.1	249.7	220.8	176.7	142.7	124.0	122.3
55°	7619.8	3310.5	302.3	258.2	236.1	212.3	183.4	141.0	105.3	90.0	86.6
57.5°	7441.4	2851.9	270.1	229.3	202.1	178.3	146.1	105.3	71.3	57.8	56.1
60°	6960.7	2226.8	237.8	197.0	171.6	146.1	115.5	74.7	44.2	32.3	32.3
62.5°	6148.8	1652.7	207.2	164.8	144.4	117.2	81.5	47.6	23.8	17.0	15.3
65°	5138.2	1219.6	173.3	139.3	120.6	91.7	57.8	28.9	11.9	5.1	3.4
67.5°	3585.7	752.5	144.4	113.8	98.5	66.2	35.7	11.9	5.1	0.0	0.0
70°	1628.9	358.4	110.4	86.6	74.7	47.6	18.7	6.8	3.4	0.0	0.0
72.5°	506.2	188.5	78.1	62.8	51.0	30.6	10.2	5.1	3.4	0.0	0.0
75°	234.4	120.6	49.3	34.0	28.9	15.3	6.8	3.4	1.7	0.0	0.0
77.5°	175.0	93.4	28.9	18.7	15.3	10.2	5.1	3.4	1.7	0.0	0.0
80°	152.9	47.6	17.0	11.9	8.5	6.8	3.4	1.7	0.0	0.0	0.0
82.5°	137.6	23.8	10.2	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0
85°	74.7	13.6	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.6	6.8	5.1	3.4	3.4	1.7	1.7	1.7	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)