

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: P456725

Luminaire Tested: **GALN-SA8A-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456725
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-SA8A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 27664 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

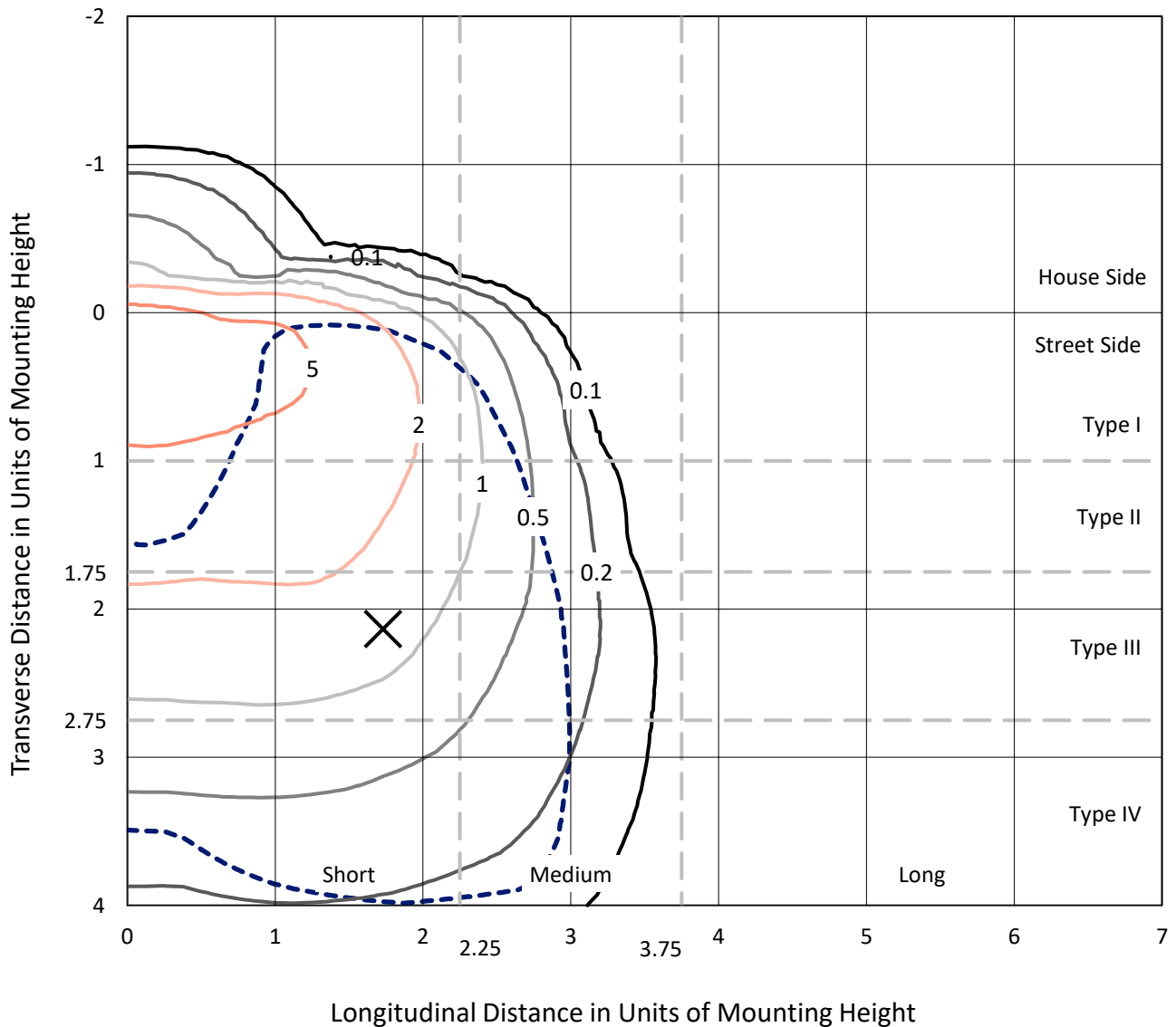
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456725
 CATALOG NUMBER: GALN-SA8A-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

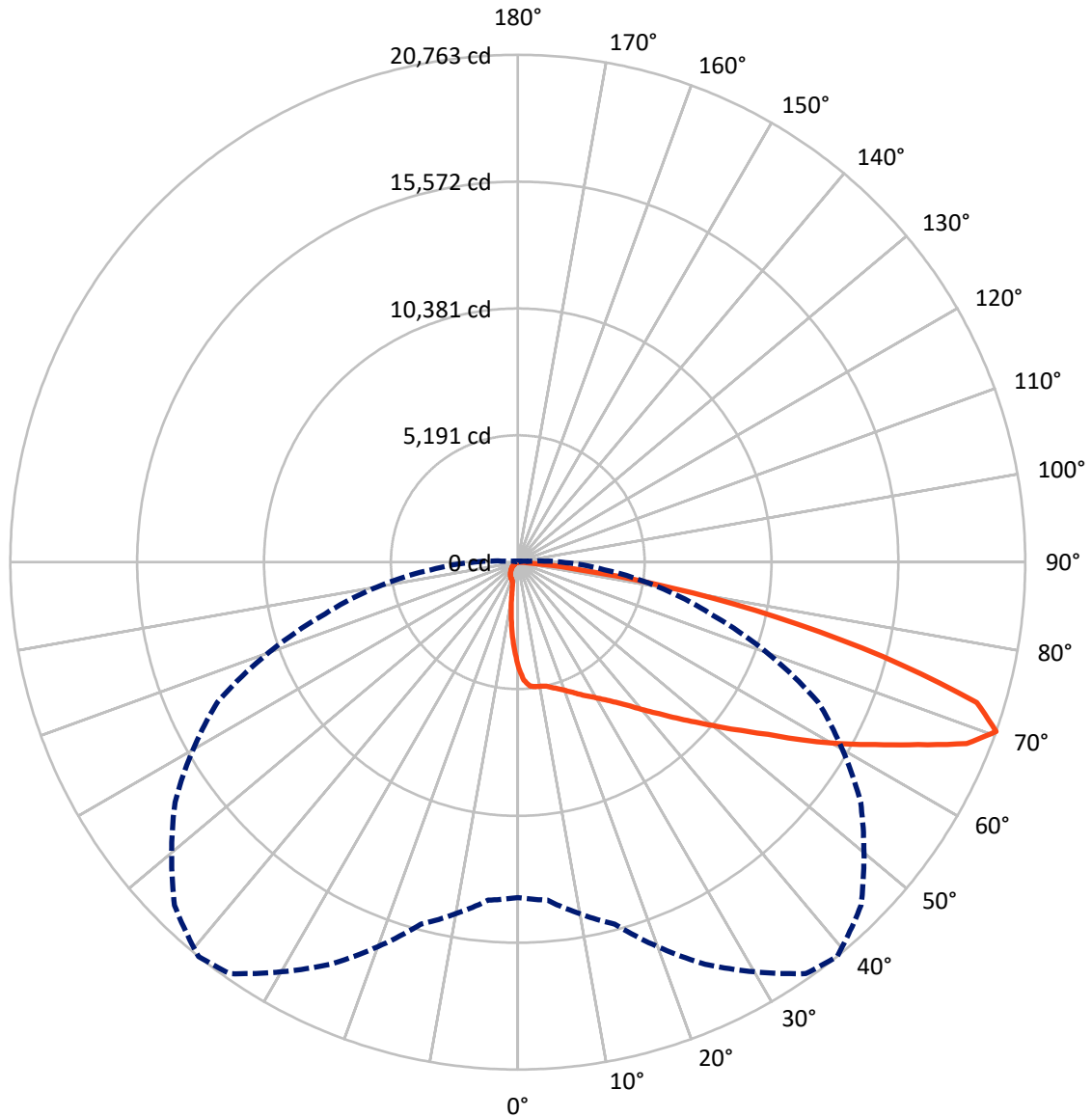
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P456725
CATALOG NUMBER: GALN-SA8A-730-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456725

CATALOG NUMBER: GALN-SA8A-730-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1803.8	0.0	1803.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25860.2	0.0	25860.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	27664.0	0.0	27664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	1.3
10°-20°	956.8	3.5
20°-30°	1602.8	5.8
30°-40°	2485.8	9.0
40°-50°	3939.3	14.2
50°-60°	5774.4	20.9
60°-70°	7401.4	26.8
70°-80°	4650.8	16.8
80°-90°	484.5	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°	27664.0	100.0
0°-180°	27664.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456725

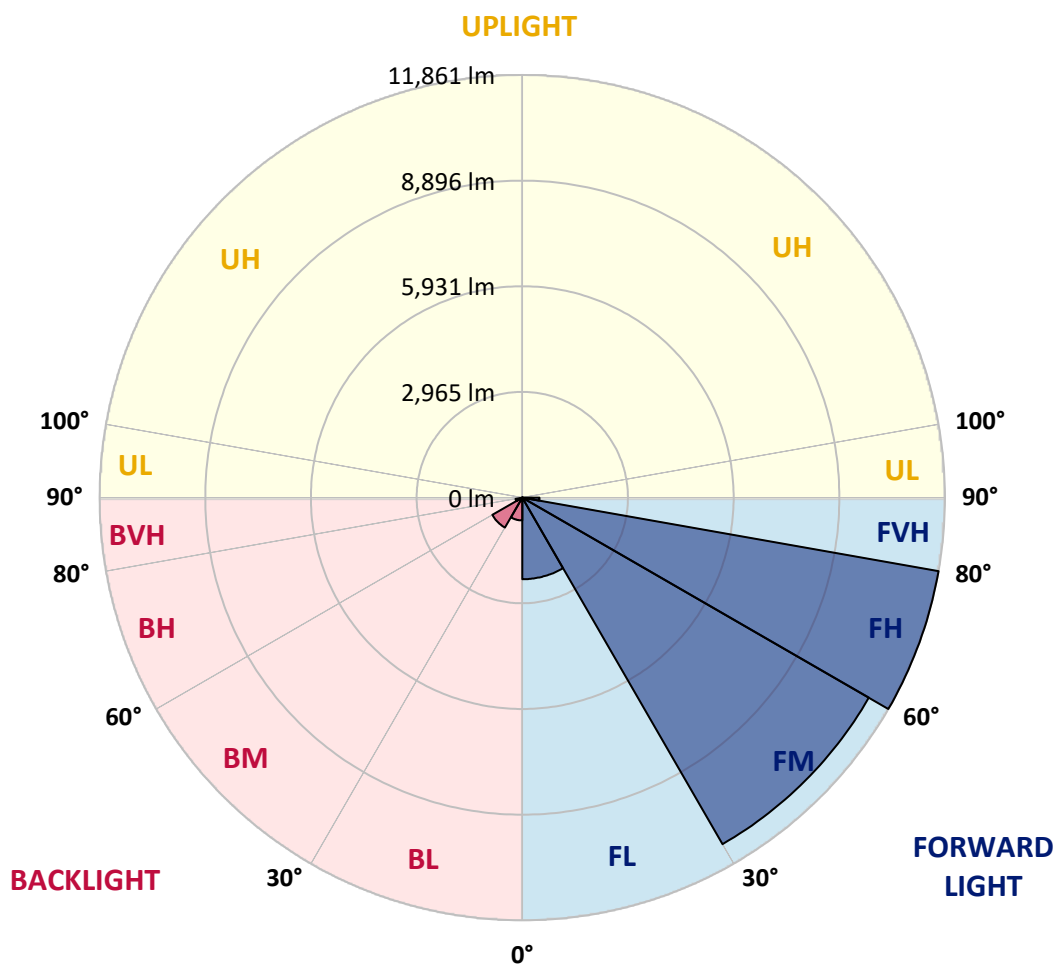
CATALOG NUMBER: GALN-SA8A-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2289.1	8.3			
FM	(30°-60°)	11228.8	40.6			
FH	(60°-80°)	11861.4	42.9			G4/12000
FVH	(80°-90°)	480.9	1.7			G3/500
BL	(0°-30°)	638.7	2.3	B2/1000		
BM	(30°-60°)	970.8	3.5	B1/1000		
BH	(60°-80°)	190.8	0.7	B1/500		G1/500
BVH	(80°-90°)	3.6	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





REPORT NUMBER: P456725

CATALOG NUMBER: GALN-SA8A-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5
2.5°	4987.6	4970.9	4948.6	4922.6	4848.2	4835.2	4790.6	4695.8	4582.4	4489.4	4361.1
5°	5223.7	5233.0	5216.3	5169.8	5115.9	5084.3	5028.5	4881.7	4734.8	4547.0	4337.0
7.5°	5277.6	5296.2	5275.8	5231.1	5179.1	5145.6	5101.0	4974.6	4803.6	4589.8	4301.7
10°	5272.0	5294.4	5281.3	5240.4	5197.7	5166.1	5117.7	5017.4	4879.8	4654.9	4312.8
12.5°	5262.7	5292.5	5290.6	5270.2	5234.9	5210.7	5181.0	5091.7	4963.5	4749.7	4374.2
15°	5236.7	5273.9	5307.4	5324.1	5326.0	5326.0	5288.8	5194.0	5071.3	4874.2	4454.1
17.5°	5247.9	5290.6	5374.3	5422.6	5456.1	5452.4	5413.3	5311.1	5175.4	5002.5	4537.8
20°	5316.7	5374.3	5491.4	5588.1	5621.5	5610.4	5558.3	5439.4	5285.1	5112.2	4619.5
22.5°	5485.8	5537.9	5684.7	5798.1	5822.3	5792.6	5718.2	5556.5	5417.0	5231.1	4718.1
25°	5738.6	5800.0	5935.7	6021.2	6021.2	6004.5	5900.4	5710.8	5565.8	5396.6	4846.3
27.5°	6045.4	6097.4	6231.3	6307.5	6262.9	6214.5	6110.4	5881.8	5742.4	5604.8	5000.6
30°	6355.8	6389.3	6530.6	6564.0	6517.6	6456.2	6344.7	6116.0	5993.3	5887.4	5223.7
32.5°	6649.5	6722.0	6839.2	6831.7	6768.5	6738.8	6636.5	6393.0	6324.2	6313.1	5536.0
35°	6943.3	6999.0	7103.1	7129.2	7073.4	7067.8	6993.5	6813.1	6815.0	6887.5	6023.1
37.5°	7196.1	7246.3	7369.0	7426.6	7437.7	7465.6	7435.9	7316.9	7486.1	7685.0	6668.1
40°	7408.0	7478.6	7634.8	7735.2	7850.4	7952.7	7958.3	7984.3	8324.5	8666.5	7510.2
42.5°	7573.5	7672.0	7898.8	8084.7	8348.6	8478.8	8582.9	8726.0	9298.6	9809.8	8502.9
45°	7789.1	7902.5	8185.1	8476.9	8889.6	9103.4	9248.4	9631.3	10443.7	11140.8	9521.7
47.5°	8146.0	8205.5	8493.6	8919.3	9462.2	9767.0	10049.6	10629.6	11672.5	12297.1	10369.3
50°	8605.2	8644.2	8861.7	9452.9	10155.6	10557.1	11072.0	11754.3	12947.7	13256.3	10849.0
52.5°	9112.7	9125.7	9289.3	10040.3	10932.6	11438.3	12014.5	12856.7	13986.9	13940.4	11166.8
55°	9702.0	9683.4	9822.8	10677.9	11852.8	12430.9	13102.0	13985.0	14888.5	14425.6	11349.0
57.5°	10376.8	10326.6	10462.3	11523.8	13031.4	13722.9	14405.2	14959.1	15587.5	14832.7	11436.4
60°	11083.2	10982.8	11144.5	12473.7	14420.0	15076.3	15643.2	15792.0	16323.6	15156.2	11285.8
62.5°	11646.5	11648.3	11949.5	13485.0	15847.7	16422.2	16723.3	16857.2	16957.5	15085.6	10493.9
65°	12525.8	12555.5	13037.0	14888.5	17500.4	17998.6	18204.9	17769.9	16985.4	14208.1	9304.2
67.5°	13432.9	13527.7	14408.9	16821.8	19409.5	19811.1	19545.2	17946.5	16227.0	12206.0	7054.8
70°	13728.5	13884.7	15336.5	18152.9	20554.7	20762.9	19863.1	17123.0	13564.9	8160.9	3550.6
72.5°	12579.7	12832.5	14803.0	17667.7	19824.1	19643.8	17771.8	14360.6	8623.8	3098.9	1083.8
75°	8871.0	8982.6	12302.7	14656.1	15944.4	15433.2	13518.4	9257.7	3546.9	870.0	371.8
77.5°	4580.5	4526.6	7316.9	9724.3	11371.3	10841.5	8852.4	4792.4	1344.0	362.5	230.5
80°	2368.3	2407.4	3165.8	5095.4	6941.4	6387.4	4719.9	2221.5	715.7	200.8	176.6
82.5°	1327.3	1245.5	1819.9	2225.2	3245.8	2544.9	1810.6	1572.7	312.3	120.8	167.3
85°	241.7	252.8	998.3	1202.8	1126.5	715.7	583.7	1050.3	91.1	66.9	117.1
87.5°	3.7	3.7	193.3	345.8	219.4	100.4	184.0	150.6	18.6	26.0	20.4
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°	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5	4316.5
2.5°	4296.1	4225.4	4093.5	3963.3	3797.9	3662.2	3571.1	3476.3	3379.6	3387.0	3409.4
5°	4221.7	4099.0	3838.8	3563.6	3299.7	3061.7	2827.5	2617.4	2531.9	2453.8	2457.6
7.5°	4147.4	3974.5	3593.4	3162.1	2762.4	2357.2	2063.5	1821.8	1693.5	1596.9	1569.0
10°	4113.9	3885.3	3368.5	2775.4	2208.5	1766.0	1388.7	1191.6	1039.2	990.8	1003.8
12.5°	4128.8	3840.6	3165.8	2426.0	1751.2	1230.6	966.7	866.3	832.8	827.2	823.5
15°	4156.7	3809.0	2966.9	2039.3	1286.4	914.6	812.4	793.8	790.1	786.3	788.2
17.5°	4193.8	3781.1	2755.0	1676.8	987.1	799.4	769.6	760.3	758.5	758.5	758.5
20°	4231.0	3749.5	2518.9	1353.3	823.5	754.7	736.2	730.6	728.7	728.7	726.9
22.5°	4273.8	3721.7	2279.1	1063.3	758.5	723.1	706.4	702.7	700.8	699.0	699.0
25°	4335.1	3686.3	2024.4	870.0	717.6	693.4	676.7	672.9	671.1	663.7	665.5
27.5°	4416.9	3660.3	1762.3	751.0	680.4	656.2	645.1	639.5	635.8	630.2	632.1
30°	4528.5	3638.0	1483.5	686.0	637.6	617.2	606.0	602.3	598.6	593.0	593.0
32.5°	4721.8	3647.3	1189.7	633.9	598.6	574.4	563.3	559.6	555.8	550.3	550.3
35°	5011.8	3701.2	951.8	589.3	552.1	527.9	516.8	516.8	511.2	503.8	501.9
37.5°	5485.8	3838.8	764.0	546.5	507.5	485.2	472.2	468.5	462.9	451.7	449.9
40°	6045.4	4052.6	643.2	503.8	466.6	444.3	433.1	422.0	407.1	396.0	394.1
42.5°	6748.1	4271.9	557.7	461.0	427.6	407.1	394.1	375.5	353.2	338.3	336.5
45°	7480.5	4472.7	500.1	422.0	390.4	373.7	358.8	329.0	301.2	282.6	280.7
47.5°	8027.0	4509.9	453.6	384.8	358.8	342.1	321.6	284.4	247.2	230.5	224.9
50°	8285.4	4329.5	405.3	347.6	327.2	308.6	282.6	239.8	198.9	178.5	174.7
52.5°	8376.5	4017.2	366.2	314.2	295.6	273.3	241.7	193.3	156.2	135.7	133.8
55°	8339.3	3623.1	330.9	282.6	258.4	232.4	200.8	154.3	115.3	98.5	94.8
57.5°	8144.2	3121.2	295.6	251.0	221.2	195.2	159.9	115.3	78.1	63.2	61.3
60°	7618.1	2437.1	260.3	215.6	187.8	159.9	126.4	81.8	48.3	35.3	35.3
62.5°	6729.5	1808.8	226.8	180.3	158.0	128.3	89.2	52.1	26.0	18.6	16.7
65°	5623.4	1334.7	189.6	152.4	132.0	100.4	63.2	31.6	13.0	5.6	3.7
67.5°	3924.3	823.5	158.0	124.6	107.8	72.5	39.0	13.0	5.6	0.0	0.0
70°	1782.8	392.2	120.8	94.8	81.8	52.1	20.4	7.4	3.7	0.0	0.0
72.5°	554.0	206.3	85.5	68.8	55.8	33.5	11.2	5.6	3.7	0.0	0.0
75°	256.5	132.0	53.9	37.2	31.6	16.7	7.4	3.7	1.9	0.0	0.0
77.5°	191.5	102.2	31.6	20.4	16.7	11.2	5.6	3.7	1.9	0.0	0.0
80°	167.3	52.1	18.6	13.0	9.3	7.4	3.7	1.9	0.0	0.0	0.0
82.5°	150.6	26.0	11.2	7.4	5.6	3.7	1.9	1.9	0.0	0.0	0.0
85°	81.8	14.9	7.4	5.6	3.7	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	14.9	7.4	5.6	3.7	3.7	1.9	1.9	1.9	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)