

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: P457428

Luminaire Tested: **GALN-SA8D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42529 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

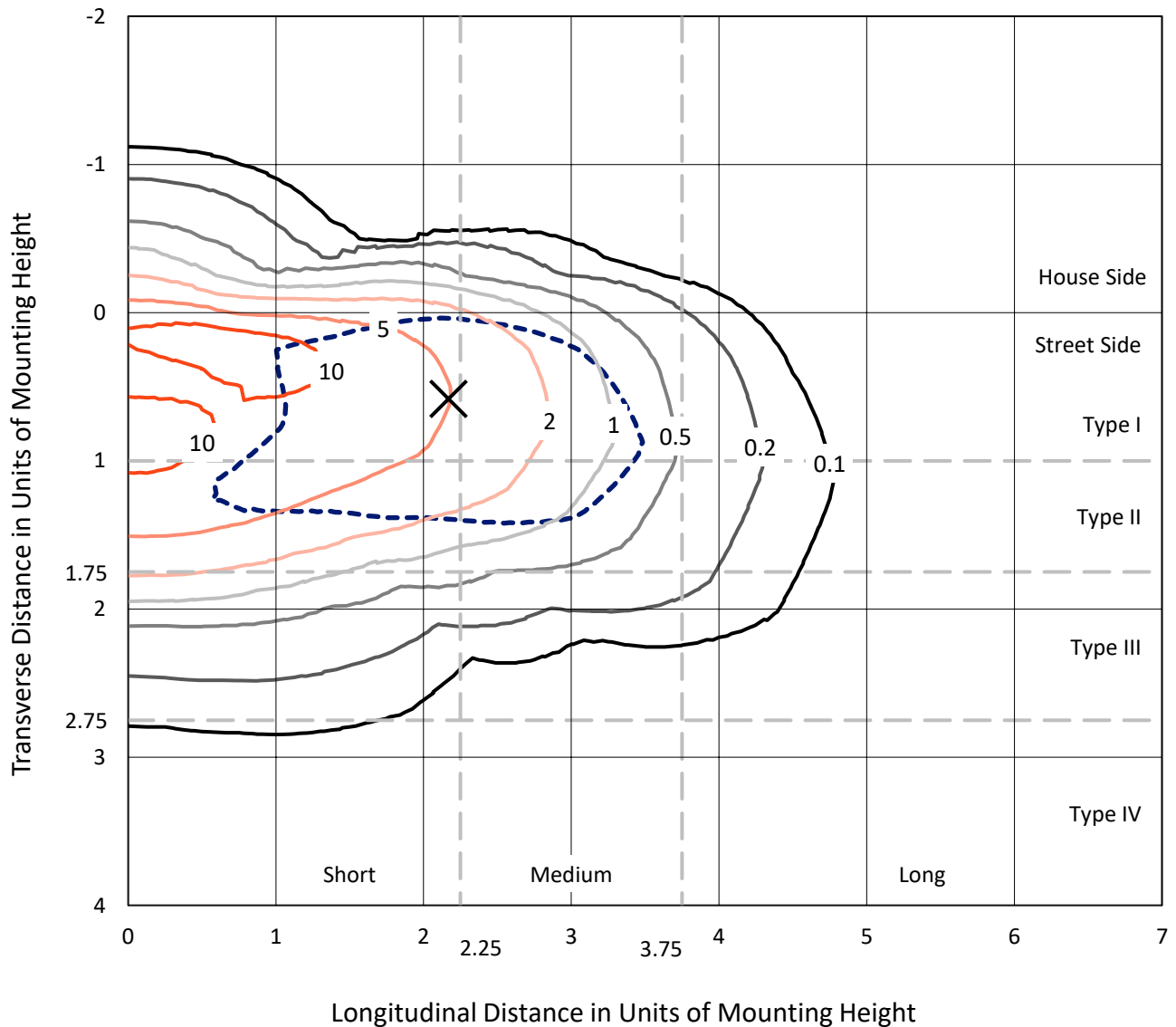
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

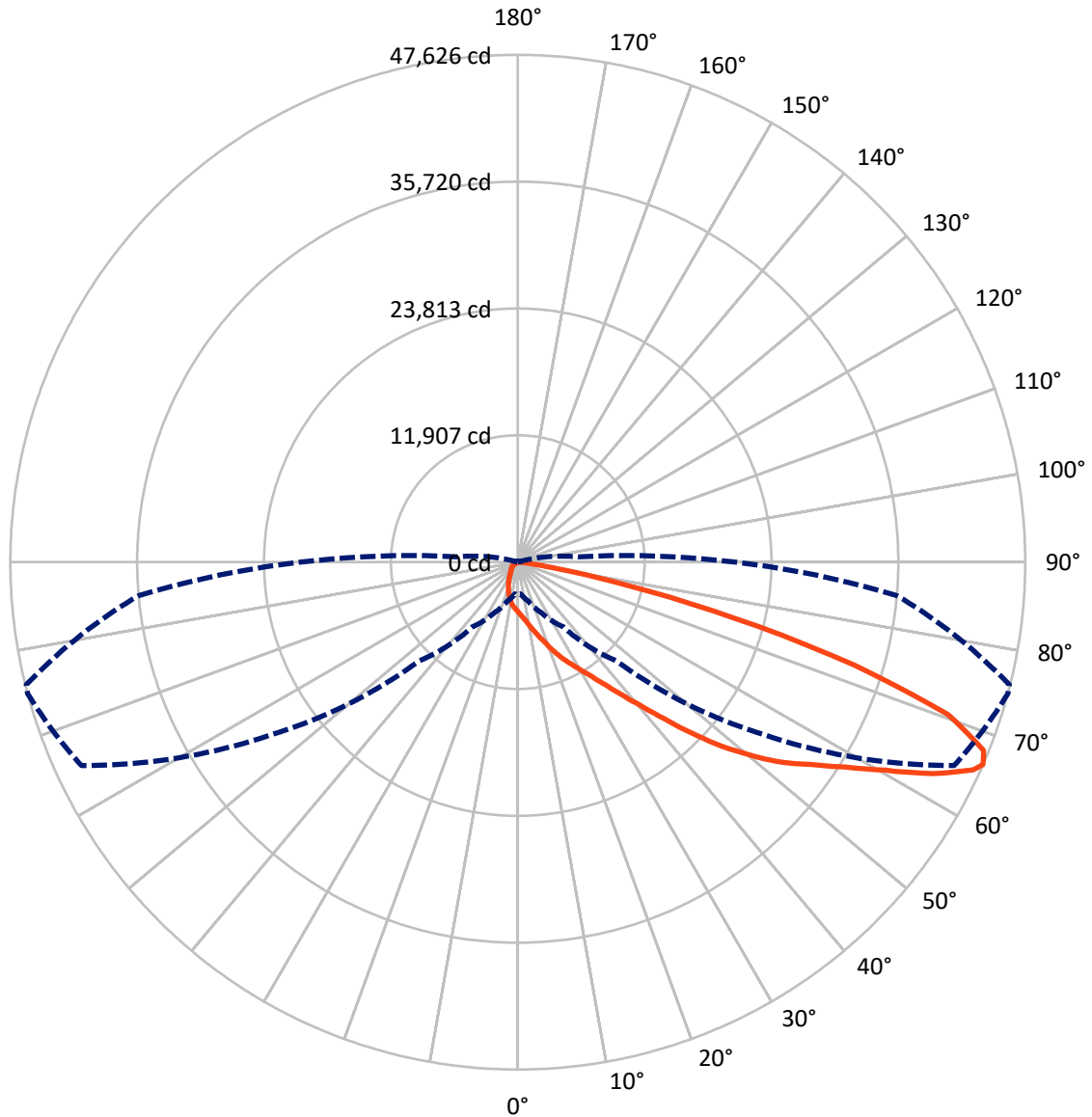
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2625.5	0.0	2625.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	39903.4	0.0	39903.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	42529.0	0.0	42529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	1.1
10°-20°	1320.2	3.1
20°-30°	2279.7	5.4
30°-40°	4112.2	9.7
40°-50°	7428.8	17.5
50°-60°	11581.5	27.2
60°-70°	11002.0	25.9
70°-80°	4123.3	9.7
80°-90°	232.6	0.5
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°	42529.0	100.0
0°-180°	42529.0	100.0

Coefficient of Utilization



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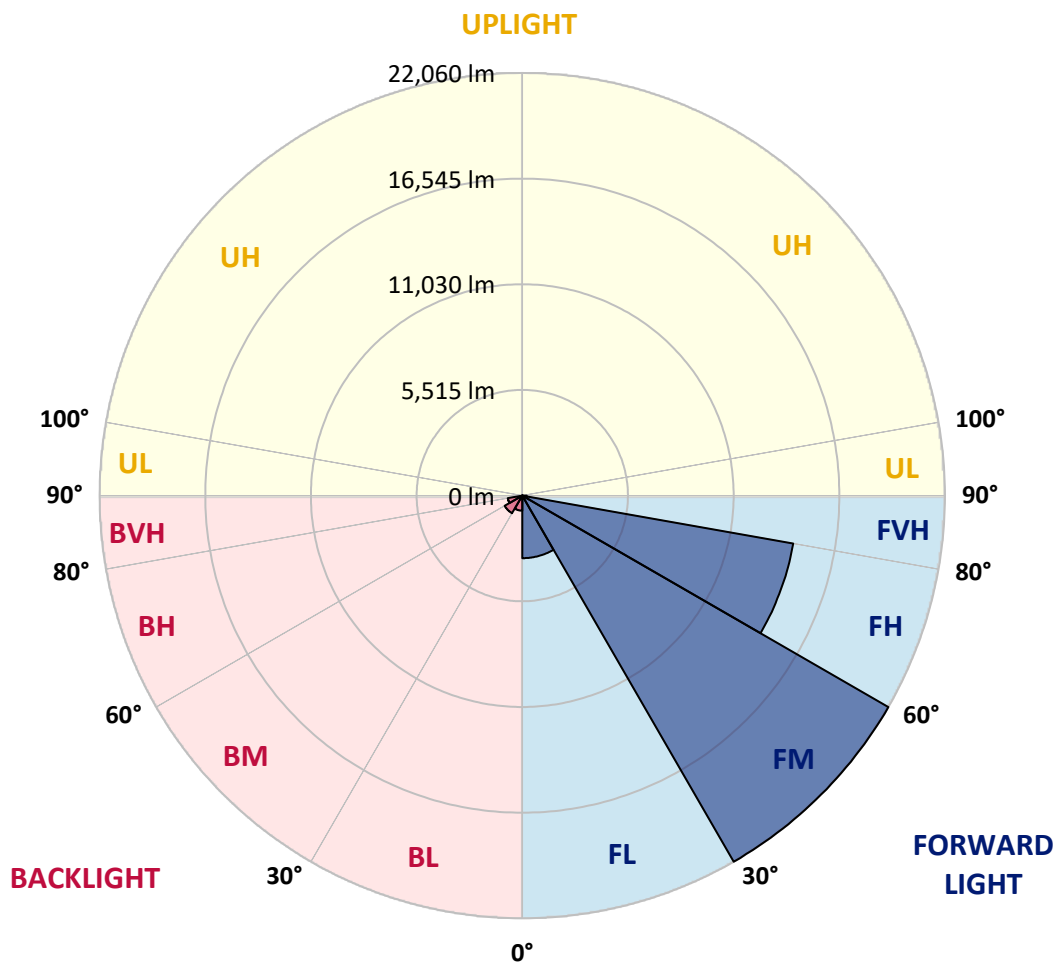
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3264.5	7.7			
FM	(30°-60°)	22059.8	51.9			
FH	(60°-80°)	14358.6	33.8			G5
FVH	(80°-90°)	220.6	0.5			G2/225
BL	(0°-30°)	784.1	1.8	B2/1000		
BM	(30°-60°)	1062.8	2.5	B2/2500		
BH	(60°-80°)	766.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	12.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0
2.5°	5556.6	5487.4	5509.5	5478.0	5405.7	5298.8	5204.4	5069.2	4934.0	4912.0	4761.0
5°	6289.3	6270.5	6245.3	6154.1	6103.8	5940.3	5745.3	5512.6	5232.7	5182.4	4908.8
7.5°	6789.3	6779.9	6792.5	6745.3	6701.3	6553.5	6345.9	6028.3	5594.4	5566.1	5110.1
10°	6952.9	6978.0	7025.2	7100.7	7169.8	7122.7	6965.4	6569.2	6062.9	5981.2	5339.6
12.5°	6858.5	6886.8	7000.0	7201.3	7424.6	7553.5	7490.6	7201.3	6559.8	6493.7	5597.5
15°	6616.4	6651.0	6811.4	7122.7	7522.1	7886.8	8044.1	7836.5	7138.4	7031.5	5908.8
17.5°	6257.9	6308.2	6537.8	6949.7	7496.9	8125.8	8569.2	8500.0	7754.8	7654.1	6248.5
20°	5987.5	6025.2	6220.2	6691.9	7390.0	8257.9	9069.2	9264.2	8515.8	8342.8	6647.8
22.5°	6166.7	6179.3	6245.3	6528.3	7198.1	8292.5	9509.5	10059.8	9323.9	9169.9	7062.9
25°	7044.1	6918.3	6852.2	6789.3	7157.3	8261.0	9908.9	10890.0	10129.0	9965.5	7474.9
27.5°	8427.7	8371.1	8037.8	7591.2	7506.3	8301.9	10173.0	11676.2	10886.8	10710.7	7877.4
30°	9934.0	9836.5	9632.1	8978.0	8320.8	8591.2	10364.8	12440.3	11783.1	11550.4	8245.3
32.5°	11317.7	11380.6	11075.5	10402.6	9641.6	9207.6	10613.3	13273.7	12811.4	12522.1	8673.0
35°	12930.9	13056.7	12588.1	11943.5	11053.5	10320.8	11097.5	14213.9	14116.4	13751.6	9333.4
37.5°	14569.3	14644.7	14358.6	13452.9	12651.0	11735.9	12009.5	15374.3	15723.3	15412.0	10122.7
40°	15946.6	16050.4	15839.7	15034.7	14179.3	13374.3	13333.4	16638.4	17635.3	17314.6	11298.8
42.5°	17000.1	17078.7	17085.0	16515.8	15745.4	15380.6	15022.1	18251.7	20031.5	19660.5	12663.6
45°	18330.3	18443.5	18377.4	17990.7	17415.2	17349.1	17163.6	20201.4	22899.5	22430.9	14434.0
47.5°	20386.9	20462.4	20298.8	19842.9	19258.0	19361.7	19251.7	22386.9	25824.0	25421.5	16267.4
50°	21814.6	21940.4	22173.1	22355.5	21930.9	21547.3	21220.2	24427.8	28600.8	28239.1	18141.6
52.5°	21798.9	22006.4	22742.3	23660.5	24588.2	24471.8	23531.6	26682.5	31251.7	30805.2	19902.6
55°	20330.3	20732.8	21814.6	23443.5	26012.7	27292.6	26864.9	29292.6	33541.0	33239.2	21943.5
57.5°	17298.8	17544.1	19047.3	21324.0	25217.1	28619.6	30726.6	32830.4	36286.3	36144.8	25113.3
60°	11635.3	11745.3	13679.3	16493.8	21468.7	27295.7	33556.8	37110.2	39666.9	39597.7	28814.6
62.5°	6666.7	6713.9	8116.4	10490.6	15276.8	23132.2	33795.8	42390.1	43720.3	43758.1	33097.6
65°	3588.1	3613.2	4745.3	6157.3	9295.6	16487.5	30390.1	45283.2	46997.1	47069.4	35751.8
66°	3097.5	2978.0	3776.7	5248.5	7396.3	13122.7	28236.0	45179.5	47626.0	47547.4	35657.4
67.5°	2355.4	2462.3	3015.7	4034.6	5481.2	9330.2	23311.4	43170.0	47148.0	46902.7	34207.7
70°	1685.5	1729.6	2147.8	2877.4	3732.7	5119.5	14896.3	35855.5	42852.4	42522.2	29802.0
72.5°	1088.1	1135.2	1522.0	2081.8	2698.1	2795.6	8339.7	25905.8	33037.9	32990.7	22443.5
75°	776.7	820.8	1006.3	1490.6	2028.3	1729.6	4015.7	17459.2	21003.2	20861.7	13883.7
77.5°	562.9	584.9	673.0	974.8	1449.7	1239.0	1861.6	9323.9	10456.0	10949.7	6135.3
80°	323.9	342.8	468.6	594.3	981.1	845.9	889.9	3742.2	3858.5	3673.0	1918.2
82.5°	160.4	182.4	279.9	405.7	613.2	569.2	408.8	1125.8	1188.7	1157.2	484.3
85°	37.7	47.2	157.2	267.3	298.7	254.7	198.1	330.2	408.8	399.4	185.5
87.5°	3.1	6.3	56.6	47.2	50.3	84.9	69.2	84.9	132.1	122.6	66.0
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°	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0	4651.0
2.5°	4691.8	4632.1	4459.1	4289.3	4147.8	4000.0	3864.8	3786.2	3754.7	3720.1	3735.9
5°	4757.9	4613.2	4264.2	3962.3	3666.7	3415.1	3213.9	3084.9	3022.0	3012.6	2996.9
7.5°	4845.9	4597.5	4056.6	3584.9	3198.1	2918.3	2688.7	2503.2	2446.6	2396.2	2355.4
10°	4952.9	4569.2	3798.8	3188.7	2776.7	2424.5	2122.7	1902.5	1789.3	1757.9	1779.9
12.5°	5066.1	4515.7	3528.3	2823.9	2349.1	1899.4	1619.5	1509.4	1478.0	1465.4	1468.6
15°	5179.3	4449.7	3245.3	2471.7	1871.1	1515.7	1386.8	1358.5	1345.9	1339.6	1333.3
17.5°	5283.0	4342.8	2927.7	2128.9	1515.7	1295.6	1248.4	1223.3	1198.1	1188.7	1173.0
20°	5405.7	4220.1	2641.5	1745.3	1283.0	1173.0	1116.4	1069.2	1031.5	1006.3	1003.1
22.5°	5522.0	4062.9	2342.8	1446.5	1169.8	1053.5	962.3	912.0	867.9	836.5	845.9
25°	5584.9	3871.1	2075.5	1261.0	1066.0	934.0	833.3	770.4	723.3	707.6	704.4
27.5°	5584.9	3635.2	1814.5	1154.1	971.7	827.0	723.3	663.5	632.1	610.1	613.2
30°	5540.9	3374.2	1572.3	1072.3	889.9	732.7	635.2	581.8	556.6	540.9	537.7
32.5°	5506.3	3125.8	1364.8	993.7	805.0	650.9	566.0	525.2	500.0	484.3	484.3
35°	5559.8	2912.0	1204.4	915.1	726.4	588.1	512.6	474.8	449.7	437.1	434.0
37.5°	5701.3	2717.0	1081.8	830.2	654.1	534.6	474.8	430.8	405.7	389.9	383.6
40°	6050.3	2606.9	990.6	751.6	584.9	490.6	430.8	389.9	358.5	342.8	339.6
42.5°	6610.1	2610.1	902.5	679.2	531.4	452.8	393.1	345.9	311.3	295.6	292.5
45°	7452.9	2729.6	833.3	610.1	484.3	412.0	352.2	301.9	270.4	254.7	254.7
47.5°	8462.3	2962.3	773.6	550.3	440.3	374.2	311.3	261.0	229.6	217.0	217.0
50°	9556.7	3264.2	713.8	487.4	402.5	333.3	267.3	226.4	201.3	191.8	191.8
52.5°	10673.0	3628.9	654.1	437.1	361.6	289.3	229.6	201.3	179.2	173.0	169.8
55°	12138.4	4094.4	591.2	383.6	317.6	248.4	204.4	176.1	150.9	141.5	138.4
57.5°	14393.2	4795.6	522.0	336.5	261.0	207.5	176.1	147.8	119.5	103.8	100.6
60°	17113.3	5651.0	449.7	295.6	210.7	169.8	141.5	113.2	88.1	69.2	66.0
62.5°	19660.5	6195.0	380.5	248.4	166.7	128.9	100.6	84.9	62.9	44.0	40.9
65°	20786.3	6012.6	314.5	201.3	132.1	91.2	66.0	59.7	37.7	18.9	15.7
66°	20412.1	5742.2	289.3	182.4	119.5	78.6	56.6	50.3	28.3	9.4	9.4
67.5°	19308.3	5103.8	251.6	157.2	103.8	62.9	44.0	37.7	15.7	3.1	0.0
70°	16544.1	4129.0	198.1	116.4	75.5	44.0	25.2	18.9	9.4	0.0	0.0
72.5°	12707.6	3075.5	157.2	88.1	53.5	25.2	12.6	6.3	9.4	0.0	0.0
75°	7786.2	1757.9	122.6	66.0	34.6	15.7	9.4	0.0	9.4	3.1	0.0
77.5°	3456.0	789.3	81.8	44.0	25.2	12.6	6.3	0.0	6.3	3.1	0.0
80°	874.2	257.9	47.2	31.4	18.9	9.4	3.1	0.0	6.3	6.3	3.1
82.5°	239.0	94.3	34.6	25.2	15.7	9.4	3.1	0.0	6.3	6.3	6.3
85°	94.3	44.0	31.4	25.2	18.9	9.4	3.1	0.0	6.3	6.3	6.3
87.5°	44.0	31.4	31.4	28.3	22.0	9.4	3.1	0.0	6.3	3.1	6.3
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)