

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: P453271

Luminaire Tested: **GALN-SA4B-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22469 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

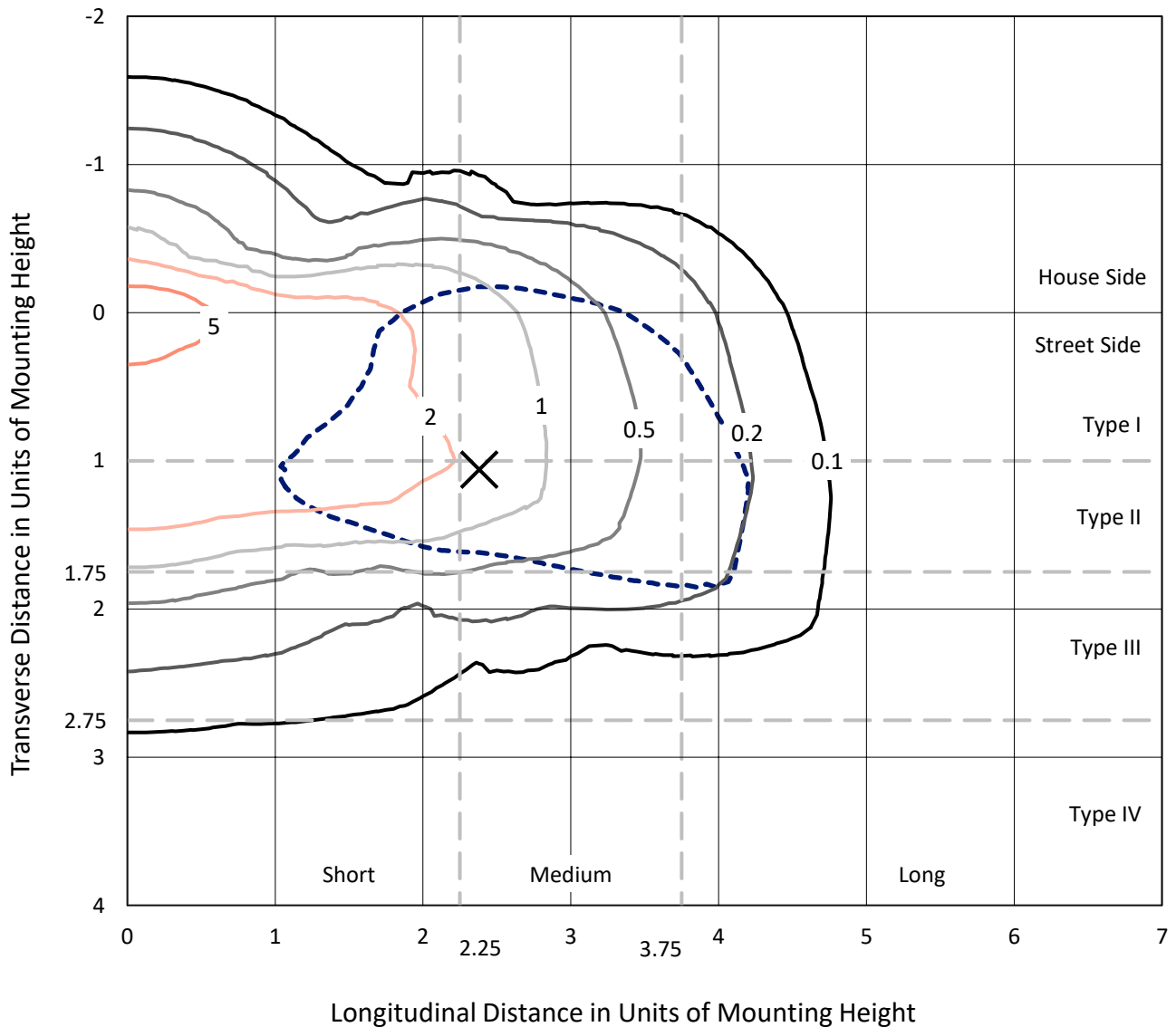
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

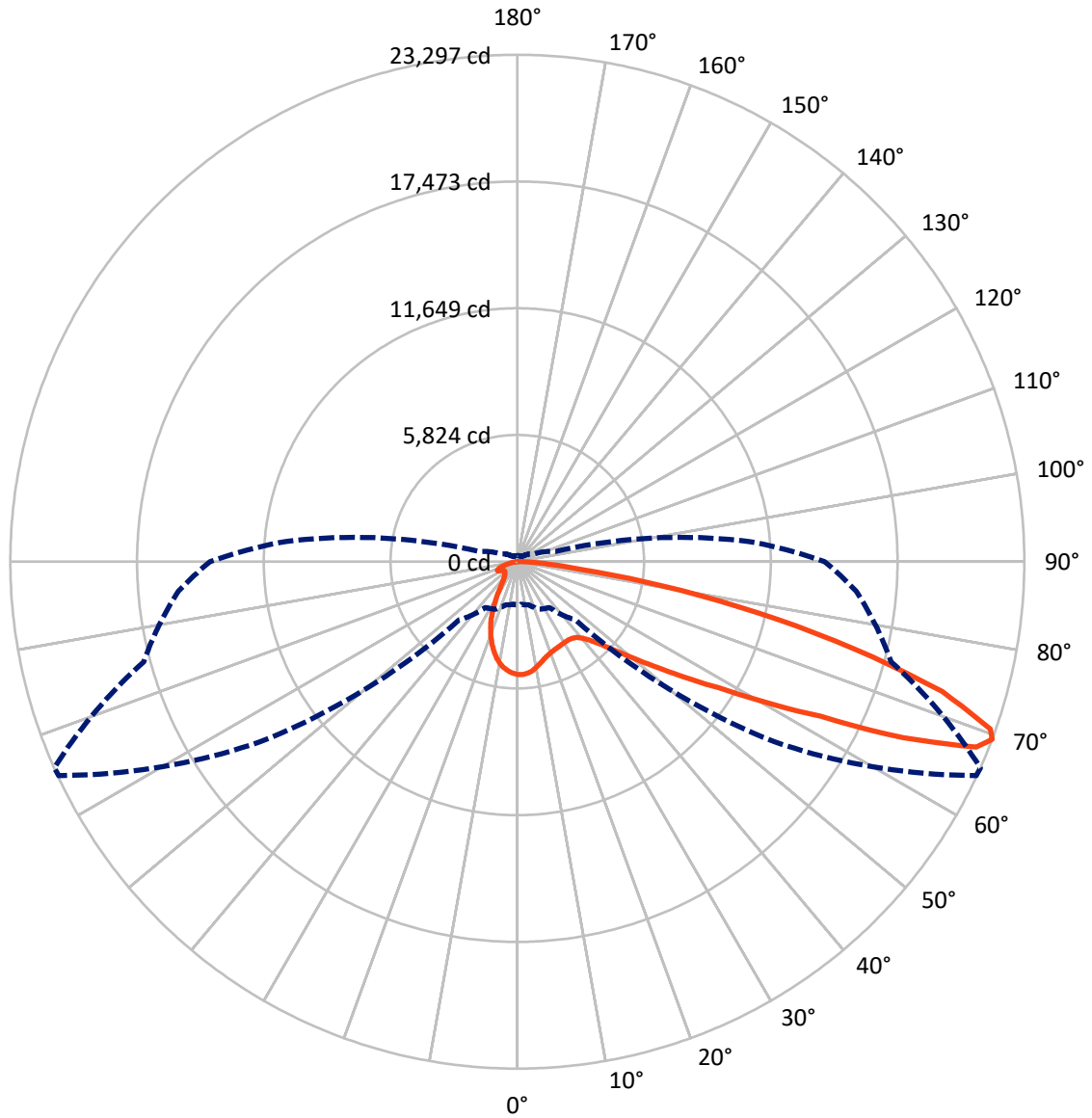
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4225.6	0.0	4225.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18243.4	0.0	18243.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	22469.0	0.0	22469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.6	2.0
10°-20°	1068.7	4.8
20°-30°	1455.0	6.5
30°-40°	1955.2	8.7
40°-50°	2919.4	13.0
50°-60°	4643.7	20.7
60°-70°	5711.5	25.4
70°-80°	3716.2	16.5
80°-90°	548.8	2.4
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°	22469.0	100.0
0°-180°	22469.0	100.0

Coefficient of Utilization



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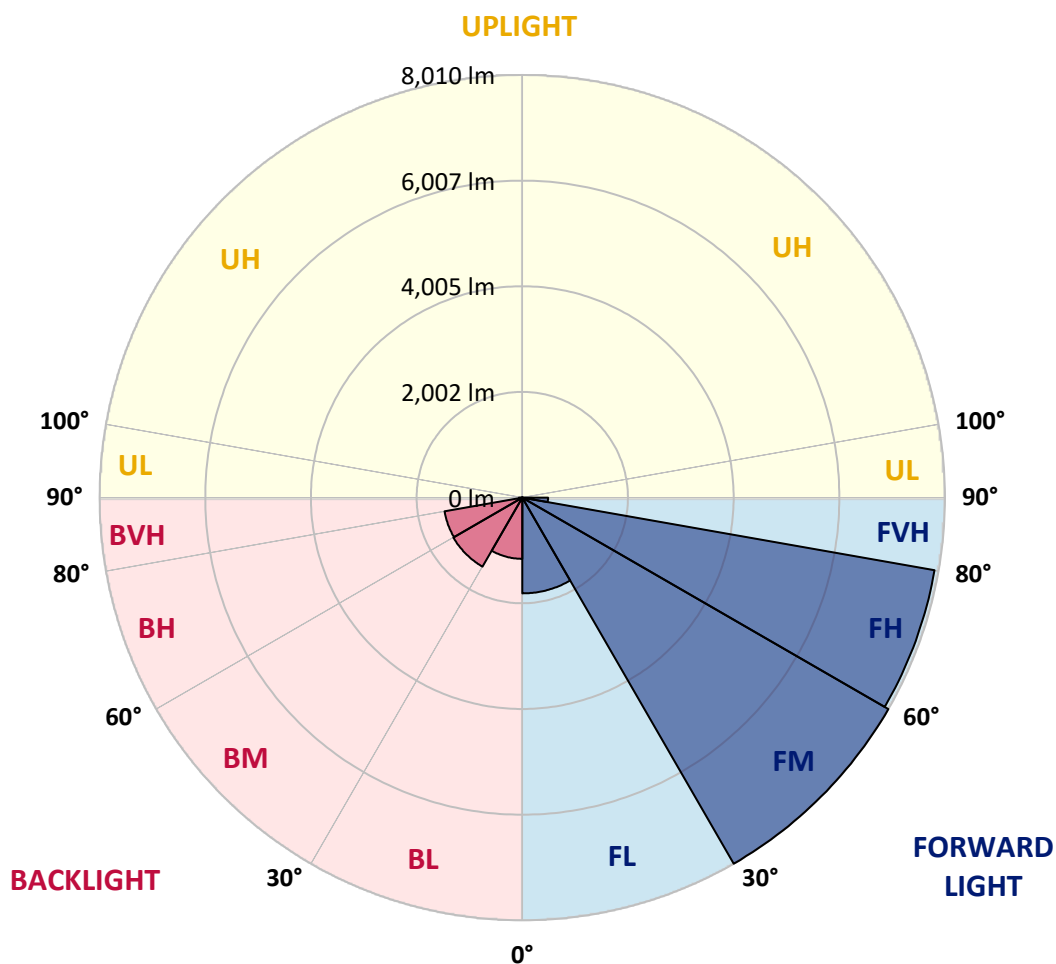
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1814.3	8.1			
FM	(30°-60°)	8009.5	35.6			
FH	(60°-80°)	7931.7	35.3			G4/12000
FVH	(80°-90°)	487.9	2.2			G3/500
BL	(0°-30°)	1159.9	5.2	B3/2500		
BM	(30°-60°)	1508.7	6.7	B2/2500		
BH	(60°-80°)	1496.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	60.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7
2.5°	5007.0	5027.0	5049.4	5074.2	5121.5	5147.7	5166.3	5187.5	5190.0	5201.2	5192.4
5°	4637.5	4661.1	4694.7	4742.0	4812.9	4923.7	5038.2	5131.5	5142.7	5194.9	5209.9
7.5°	4328.9	4342.6	4370.0	4445.9	4546.7	4669.8	4836.6	5025.7	5053.1	5177.5	5221.1
10°	4077.6	4091.2	4123.6	4202.0	4301.5	4455.8	4638.7	4887.6	4910.0	5124.0	5223.6
12.5°	3889.7	3902.1	3937.0	4014.1	4128.6	4272.9	4474.5	4738.3	4770.6	5053.1	5199.9
15°	3746.6	3770.2	3798.8	3862.3	3983.0	4122.4	4317.7	4601.4	4627.5	4978.4	5183.7
17.5°	3685.6	3696.8	3716.7	3775.2	3863.5	4000.4	4197.0	4494.4	4525.5	4926.2	5180.0
20°	3688.1	3699.3	3703.0	3735.4	3798.8	3917.0	4111.2	4409.8	4447.1	4880.1	5186.2
22.5°	3772.7	3774.0	3760.3	3749.1	3774.0	3872.3	4050.2	4346.3	4389.9	4860.2	5191.2
25°	3903.4	3925.8	3905.8	3853.6	3807.5	3854.8	4026.5	4311.5	4352.5	4831.6	5185.0
27.5°	4114.9	4118.6	4102.4	4031.5	3912.1	3877.2	4016.6	4285.4	4320.2	4810.5	5153.9
30°	4398.6	4387.4	4372.5	4294.1	4106.2	3963.1	4037.7	4261.7	4297.8	4779.3	5116.5
32.5°	4686.0	4720.9	4707.2	4615.1	4371.2	4129.8	4106.2	4259.2	4289.1	4755.7	5075.5
35°	4990.9	5007.0	5071.8	5024.5	4774.4	4399.8	4234.3	4297.8	4321.4	4756.9	5046.9
37.5°	5229.8	5273.3	5425.1	5466.2	5231.0	4756.9	4442.1	4407.3	4417.3	4817.9	5058.1
40°	5518.5	5593.1	5788.5	5956.4	5802.2	5221.1	4795.5	4610.1	4622.6	4964.7	5131.5
42.5°	5884.3	5936.5	6199.1	6426.8	6401.9	5834.5	5223.6	4942.3	4948.6	5257.2	5336.8
45°	6312.3	6387.0	6681.9	7024.1	7082.5	6528.8	5842.0	5445.0	5441.3	5711.3	5720.0
47.5°	6859.8	6905.8	7198.3	7571.5	7808.0	7401.1	6592.3	6166.7	6126.9	6373.3	6302.4
50°	7363.7	7435.9	7657.4	8065.5	8654.1	8422.6	7579.0	7102.4	7009.1	7239.3	7119.9
52.5°	7575.3	7651.2	7837.8	8344.3	9379.5	9744.1	8832.0	8218.6	8063.0	8239.7	8196.2
55°	7208.2	7306.5	7480.7	8096.6	9698.0	11268.3	10521.8	9508.9	9395.7	9319.8	9332.2
57.5°	6221.5	6314.8	6550.0	7229.4	9317.3	12374.5	12934.5	11167.6	10924.9	10575.3	10635.0
60°	4735.8	4794.3	4916.2	5669.0	8188.7	12662.0	15674.4	13264.2	13109.9	11825.8	11868.1
62.5°	3363.3	3429.3	3513.9	3889.7	5995.0	11851.9	17819.6	16192.0	15640.8	13121.1	13080.0
65°	2731.2	2686.4	2788.5	2963.9	3517.6	9185.4	18302.4	20255.9	19496.9	14827.0	14257.1
67.5°	2246.0	2198.7	2299.5	2611.8	2675.2	5331.8	16562.8	22893.8	22742.0	16682.3	15452.9
69°	1988.4	1963.5	2051.8	2407.7	2568.2	3786.4	14428.9	23260.9	23297.0	17776.0	15637.1
70°	1791.8	1801.7	1887.6	2304.4	2519.7	3121.9	12332.2	22754.5	23060.5	18322.3	15438.0
72.5°	1319.0	1340.1	1459.6	1908.8	2473.7	2649.1	7338.9	19875.1	20416.4	18354.6	14122.8
75°	922.0	912.1	1017.8	1437.2	2336.8	2625.5	4310.2	15370.8	15984.2	15864.8	11866.9
77.5°	603.5	619.7	704.3	1015.3	1966.0	2605.6	2809.6	10905.0	11303.2	10610.1	7019.1
80°	425.5	424.3	471.6	693.1	1458.3	2503.5	2300.7	6873.5	6772.7	4169.6	2081.7
82.5°	243.9	261.3	316.1	487.8	975.5	2203.6	2116.5	3287.4	3001.2	1188.3	703.0
85°	135.6	141.8	187.9	294.9	569.9	1659.9	1847.8	1495.6	1411.0	496.5	302.4
87.5°	43.6	47.3	78.4	149.3	258.8	783.9	1046.5	690.6	637.1	179.2	121.9
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°	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7	5188.7
2.5°	5196.2	5211.1	5171.3	5132.7	5097.9	5049.4	5005.8	4969.7	4944.8	4941.1	4928.7
5°	5213.6	5214.8	5138.9	5036.9	4937.4	4827.9	4714.6	4633.8	4557.9	4515.6	4494.4
7.5°	5226.0	5214.8	5078.0	4912.5	4720.9	4521.8	4322.7	4163.4	4040.2	3991.7	4010.4
10°	5221.1	5186.2	4985.9	4720.9	4442.1	4144.8	3858.6	3634.6	3429.3	3323.5	3326.0
12.5°	5193.7	5136.5	4849.0	4505.6	4096.2	3698.0	3260.1	2957.7	2720.0	2579.4	2535.9
15°	5170.1	5070.5	4688.5	4213.2	3704.3	3135.6	2601.8	2228.5	2029.4	1918.7	1917.5
17.5°	5145.2	5007.0	4513.1	3903.4	3253.8	2522.2	1962.3	1677.3	1584.0	1595.2	1576.5
20°	5119.0	4932.4	4330.2	3558.7	2705.1	1881.4	1469.5	1353.8	1379.9	1430.9	1438.4
22.5°	5089.2	4852.8	4133.6	3179.2	2127.7	1416.0	1192.0	1174.6	1241.8	1321.4	1332.6
25°	5043.1	4753.2	3885.9	2782.2	1641.2	1141.0	1044.0	1056.4	1122.4	1189.5	1197.0
27.5°	4978.4	4630.0	3635.8	2287.0	1233.1	979.3	954.4	970.6	1002.9	1044.0	1053.9
30°	4891.3	4490.7	3348.4	1859.0	988.0	898.4	888.4	897.1	915.8	933.2	938.2
32.5°	4804.2	4356.3	3058.5	1423.5	881.0	844.9	834.9	834.9	834.9	837.4	838.7
35°	4723.3	4229.4	2747.4	1108.7	825.0	802.6	788.9	774.0	771.5	762.8	762.8
37.5°	4678.6	4113.6	2416.4	928.2	783.9	767.7	749.1	724.2	710.5	711.7	709.2
40°	4687.3	4037.7	2115.3	826.2	750.3	732.9	704.3	675.7	666.9	666.9	664.5
42.5°	4785.6	4012.9	1826.6	772.7	718.0	698.1	662.0	635.8	630.9	629.6	632.1
45°	5012.0	4073.8	1567.8	737.9	690.6	660.7	624.6	601.0	596.0	596.0	594.8
47.5°	5453.8	4271.7	1382.4	715.5	670.7	632.1	594.8	571.1	562.4	559.9	559.9
50°	6140.6	4701.0	1244.3	695.6	645.8	606.0	567.4	540.0	526.3	525.1	523.8
52.5°	7095.0	5370.4	1190.8	680.6	618.4	578.6	536.3	510.2	492.7	489.0	486.5
55°	8211.1	6304.9	1264.2	669.4	589.8	547.5	503.9	476.6	460.4	452.9	451.7
57.5°	9503.9	7427.2	1542.9	654.5	563.7	513.9	471.6	444.2	426.8	418.1	415.6
60°	10664.9	8580.7	2029.4	645.8	541.3	477.8	434.3	409.4	393.2	384.5	383.2
62.5°	11940.3	9680.6	2610.5	669.4	531.3	443.0	399.4	377.0	363.3	354.6	354.6
65°	13302.8	10781.8	2995.0	749.1	546.2	415.6	362.1	343.4	331.0	324.8	323.5
67.5°	14221.1	11162.6	2467.4	831.2	583.6	385.7	326.0	311.1	303.6	297.4	297.4
69°	14121.5	10681.0	1820.4	852.3	594.8	370.8	306.1	294.9	284.9	282.5	280.0
70°	13806.7	10132.3	1525.5	838.7	586.1	357.1	293.7	280.0	271.3	268.8	267.5
72.5°	12297.4	8787.2	1136.0	729.2	499.0	309.8	260.1	247.6	240.1	236.4	236.4
75°	10216.9	7182.1	887.2	579.8	390.7	261.3	222.7	212.8	206.6	204.1	202.8
77.5°	5726.3	4010.4	637.1	454.2	296.1	211.5	186.6	177.9	171.7	169.2	169.2
80°	1595.2	1146.0	374.5	299.9	201.6	160.5	148.1	141.8	133.1	126.9	130.7
82.5°	601.0	496.5	214.0	180.4	128.2	107.0	103.3	98.3	94.6	85.9	85.9
85°	292.4	241.4	136.9	95.8	70.9	56.0	53.5	51.0	48.5	42.3	43.6
87.5°	100.8	107.0	59.7	34.8	21.2	13.7	11.2	6.2	6.2	6.2	6.2
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)