

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: P458986

Luminaire Tested: **GALN-SA5A-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21145 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

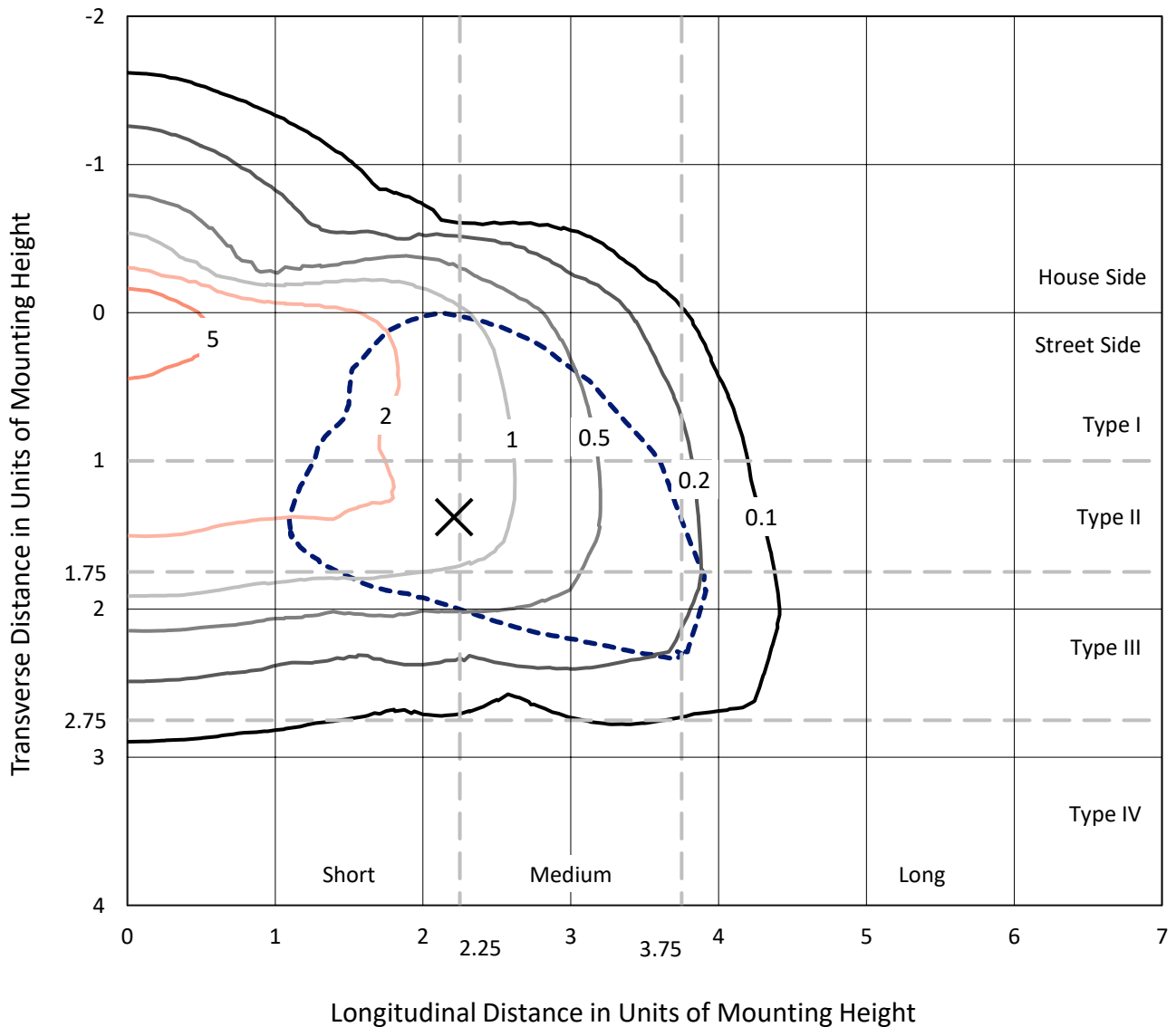
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

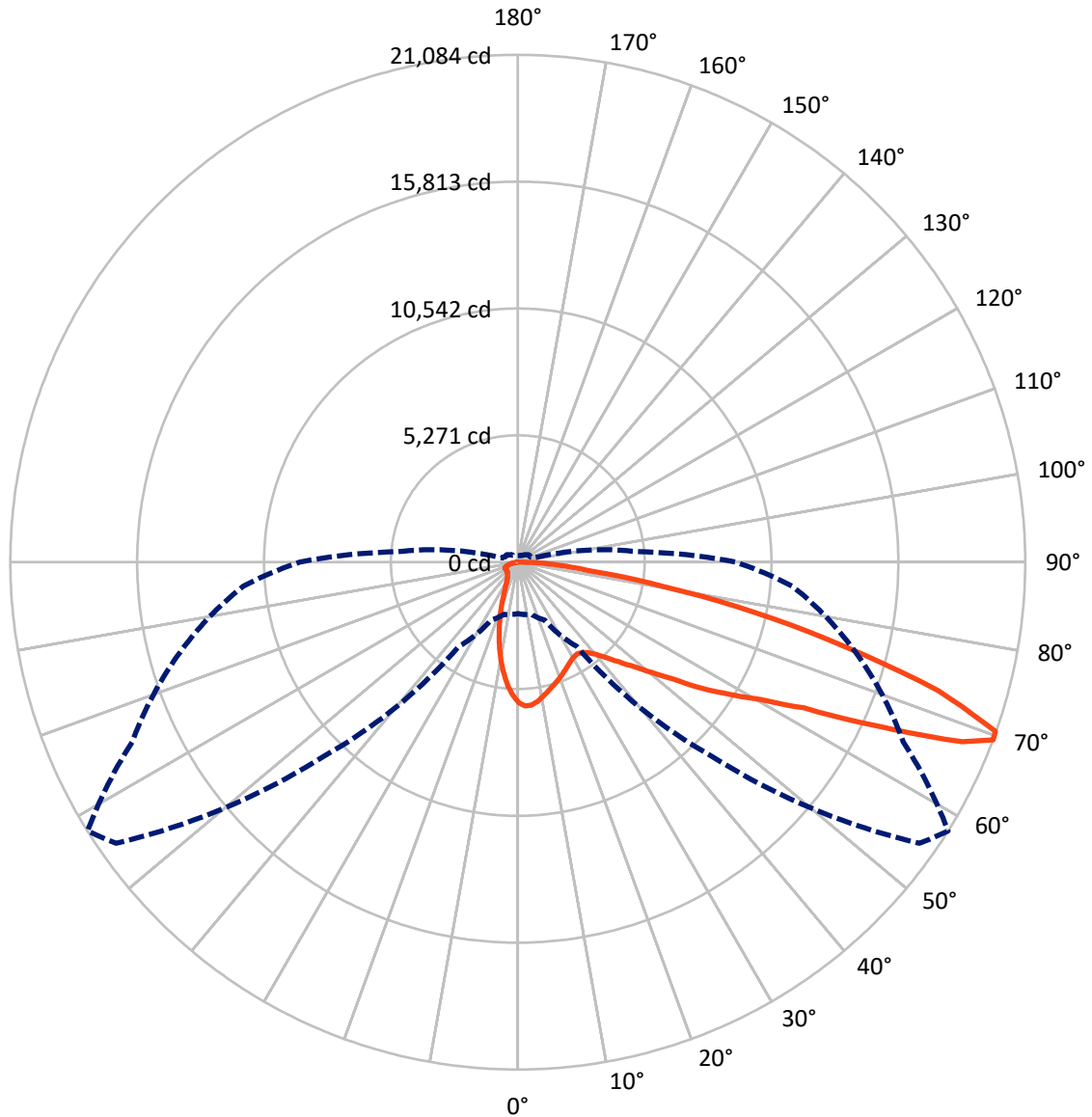
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3098.8	0.0	3098.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18046.2	0.0	18046.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	21145.0	0.0	21145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.2	2.3
10°-20°	1089.6	5.2
20°-30°	1407.8	6.7
30°-40°	1828.5	8.6
40°-50°	2658.4	12.6
50°-60°	4241.9	20.1
60°-70°	5666.6	26.8
70°-80°	3266.6	15.4
80°-90°	489.3	2.3
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°	21145.0	100.0
0°-180°	21145.0	100.0

Coefficient of Utilization



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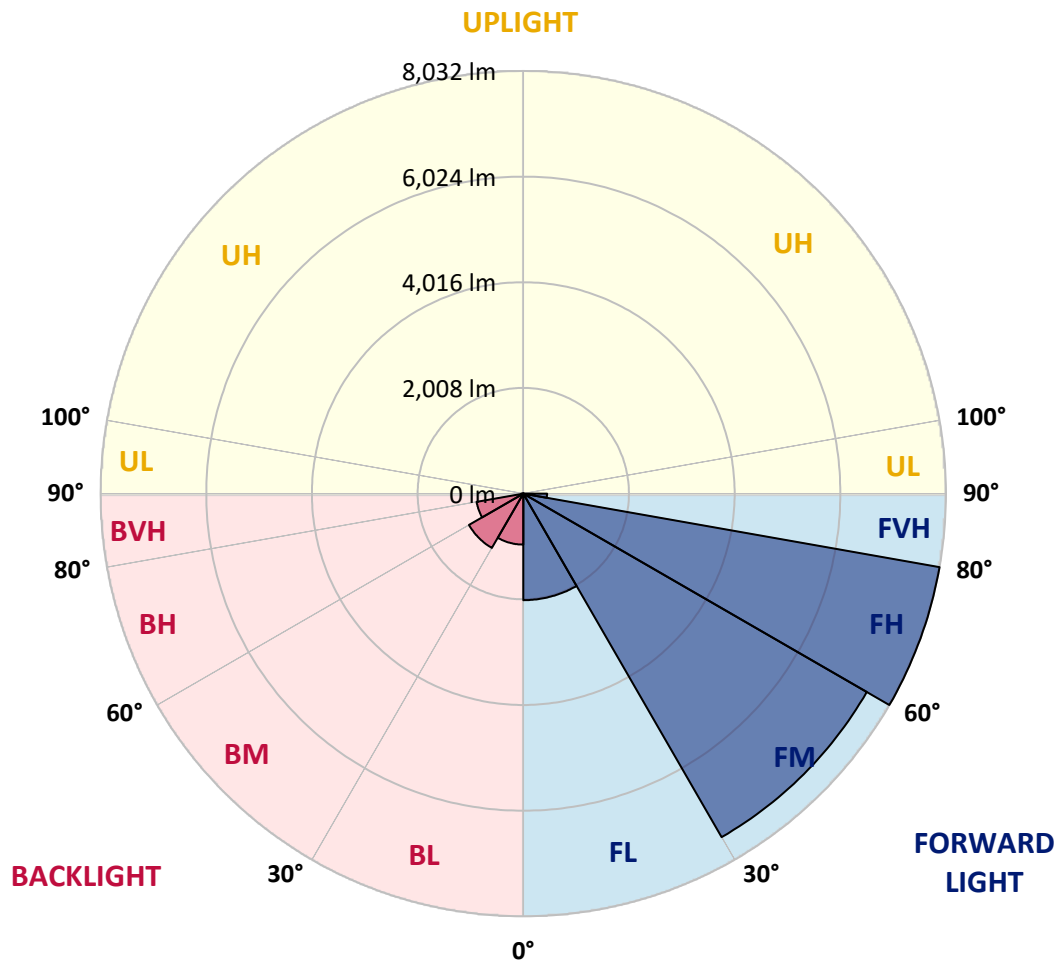
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2025.2	9.6			
FM	(30°-60°)	7537.1	35.6			
FH	(60°-80°)	8032.2	38.0			G4/12000
FVH	(80°-90°)	451.8	2.1			G3/500
BL	(0°-30°)	968.6	4.6	B2/1000		
BM	(30°-60°)	1191.7	5.6	B2/2500		
BH	(60°-80°)	901.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.5	0.2			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2
2.5°	6060.2	6076.7	6072.0	6066.1	6056.7	6030.7	5988.3	5981.2	5954.1	5896.3	5824.4
5°	5967.1	5981.2	5982.4	5990.6	6002.4	5997.7	5967.1	5963.5	5923.4	5845.6	5725.3
7.5°	5647.5	5666.4	5707.6	5753.6	5794.9	5833.8	5843.2	5849.1	5824.4	5734.7	5574.4
10°	5287.8	5306.7	5325.5	5393.9	5495.4	5592.1	5672.2	5682.9	5688.8	5606.2	5410.5
12.5°	4889.2	4928.1	4968.2	5069.6	5205.3	5357.4	5498.9	5521.3	5561.4	5498.9	5268.9
15°	4550.8	4590.9	4648.6	4739.5	4903.4	5122.7	5322.0	5358.6	5437.6	5405.7	5136.9
17.5°	4316.1	4330.2	4370.3	4474.1	4651.0	4882.1	5148.7	5221.8	5348.0	5339.7	5023.7
20°	4131.0	4148.6	4173.4	4237.1	4421.1	4665.2	4987.1	5081.4	5252.4	5280.7	4911.6
22.5°	4053.1	4066.1	4062.6	4096.8	4221.8	4467.0	4823.2	4935.2	5167.5	5240.6	4807.8
25°	4057.8	4069.6	4051.9	4043.7	4118.0	4292.5	4652.2	4794.9	5099.1	5213.5	4713.5
27.5°	4136.8	4145.1	4112.1	4079.1	4085.0	4184.0	4510.7	4668.7	5041.3	5225.3	4634.5
30°	4243.0	4258.3	4237.1	4197.0	4153.4	4158.1	4419.9	4575.5	5014.2	5266.6	4596.8
32.5°	4379.8	4393.9	4384.5	4352.7	4296.0	4233.5	4397.5	4541.3	5016.6	5350.3	4588.5
35°	4523.6	4551.9	4567.3	4564.9	4518.9	4410.4	4485.9	4605.0	5073.2	5490.6	4636.9
37.5°	4686.4	4710.0	4776.0	4818.5	4776.0	4649.8	4685.2	4767.8	5198.2	5693.5	4743.0
40°	4844.4	4879.8	4976.5	5108.6	5092.1	4981.2	4989.5	5043.7	5418.7	5995.4	4950.5
42.5°	5009.5	5052.0	5220.6	5416.3	5455.3	5369.2	5391.6	5439.9	5732.4	6414.0	5306.7
45°	5221.8	5272.5	5480.0	5724.1	5877.4	5824.4	5888.1	5911.6	6152.2	6958.8	5776.0
47.5°	5495.4	5554.3	5810.2	6114.5	6331.5	6379.8	6490.7	6476.5	6672.3	7603.9	6384.5
50°	5956.4	5989.5	6231.2	6541.4	6839.7	7057.9	7178.2	7200.6	7317.3	8231.2	7065.0
52.5°	6504.8	6534.3	6708.8	6980.0	7353.9	7816.1	8113.3	8040.2	8068.5	8995.4	7861.0
55°	7121.6	7171.1	7281.9	7462.4	7947.0	8627.5	9224.2	9241.9	8928.2	9726.5	8623.9
57.5°	7599.2	7682.9	7872.7	8129.8	8744.2	9529.6	10331.5	10343.3	9942.4	10507.2	9465.9
60°	7358.6	7457.6	7891.6	8517.8	9790.2	11103.9	11654.6	11587.4	10929.4	11396.4	10493.1
62.5°	6320.8	6338.5	6969.4	7948.2	10112.2	13210.1	13624.0	13339.8	12246.6	12523.8	11536.7
65°	4090.9	4206.4	4706.4	6077.9	9054.4	14378.7	17074.5	16417.7	14093.4	13803.3	12410.5
67.5°	2582.6	2553.1	2760.7	3470.6	6227.7	13349.2	20019.1	19915.4	16508.5	14611.0	12201.8
69°	2141.5	2174.6	2245.3	2660.4	4285.4	11397.6	20367.0	21084.0	17679.5	14547.4	11443.6
70°	1942.2	1957.6	2031.9	2358.5	3306.6	9546.1	19796.3	21052.2	18139.4	14280.9	10894.0
72.5°	1541.3	1540.1	1667.5	1962.3	2471.7	5449.4	16254.9	18277.4	17625.2	13040.3	9001.3
75°	1171.0	1189.9	1330.2	1660.4	2277.2	2977.6	11343.3	14075.7	14076.8	10299.7	5616.8
77.5°	844.4	856.1	1020.1	1393.9	2145.1	2413.9	7555.5	10095.7	9490.7	4719.4	1765.4
80°	553.1	560.1	685.2	1103.8	1934.0	2277.2	4480.0	6179.3	4476.5	1252.4	583.7
82.5°	303.1	338.4	418.6	714.6	1551.9	2103.8	2722.9	3127.4	1679.3	557.8	304.2
85°	152.1	161.6	235.9	417.5	1014.2	1740.6	1896.3	1793.7	866.8	277.1	158.0
87.5°	44.8	56.6	97.9	161.6	411.6	906.9	1055.4	946.9	333.7	100.2	33.0
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°	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2	5843.2
2.5°	5794.9	5773.7	5679.3	5594.4	5516.6	5434.0	5364.5	5303.1	5309.0	5310.2	5247.7
5°	5662.8	5614.5	5435.2	5267.8	5126.2	4947.0	4793.7	4694.6	4645.1	4579.1	4602.7
7.5°	5483.6	5390.4	5141.6	4863.3	4602.7	4370.3	4118.0	3944.6	3833.8	3726.5	3740.6
10°	5298.4	5148.7	4786.6	4418.7	4081.4	3710.0	3388.0	3112.1	2906.9	2830.2	2779.5
12.5°	5108.6	4911.6	4451.7	3962.3	3496.5	3051.9	2595.6	2299.6	2073.1	1952.9	1968.2
15°	4935.2	4695.8	4102.7	3505.9	2901.0	2371.5	1916.3	1634.5	1476.4	1443.4	1462.3
17.5°	4774.8	4461.1	3776.0	3062.5	2356.2	1778.3	1439.9	1280.7	1217.0	1199.3	1198.1
20°	4609.7	4261.9	3409.2	2588.5	1836.1	1378.6	1181.6	1107.3	1095.5	1102.6	1103.8
22.5°	4442.3	4015.4	3031.9	2118.0	1462.3	1127.4	1033.0	1013.0	1022.4	1038.9	1041.3
25°	4287.8	3798.4	2668.7	1705.2	1167.5	990.6	944.6	944.6	965.8	990.6	991.8
27.5°	4160.4	3588.5	2306.6	1353.8	977.6	891.5	876.2	884.4	913.9	932.8	934.0
30°	4055.5	3392.7	1964.6	1084.9	859.7	812.5	809.0	823.1	844.4	862.0	863.2
32.5°	3976.5	3220.6	1645.1	911.6	778.3	752.4	751.2	761.8	773.6	778.3	783.0
35°	3945.8	3077.9	1352.6	801.9	724.1	707.6	707.6	706.4	711.1	713.5	715.8
37.5°	3970.6	2968.2	1126.2	731.1	684.0	672.2	665.1	658.0	655.7	655.7	656.8
40°	4075.5	2910.4	957.6	685.2	655.7	638.0	625.0	616.8	608.5	610.9	613.2
42.5°	4298.4	2921.0	843.2	654.5	630.9	606.1	587.3	577.8	571.9	579.0	577.8
45°	4653.4	3027.2	770.1	633.3	606.1	574.3	556.6	547.2	547.2	557.8	561.3
47.5°	5149.8	3230.0	731.1	616.8	587.3	549.5	531.8	524.8	527.1	544.8	546.0
50°	5756.0	3582.6	724.1	608.5	577.8	531.8	511.8	504.7	510.6	529.5	531.8
52.5°	6424.6	4036.6	758.3	609.7	569.6	521.2	495.3	484.7	490.6	505.9	510.6
55°	7217.1	4605.0	846.7	614.4	557.8	515.3	483.5	459.9	467.0	477.6	478.8
57.5°	8026.1	5322.0	1002.4	615.6	548.4	504.7	463.4	432.8	432.8	439.9	443.4
60°	9014.3	6102.7	1207.6	616.8	549.5	489.4	436.3	402.1	397.4	400.9	402.1
62.5°	9995.4	6756.0	1241.8	613.2	561.3	474.1	406.8	371.5	363.2	362.0	359.7
65°	10428.2	6634.5	1017.7	596.7	574.3	464.6	383.3	342.0	327.8	323.1	323.1
67.5°	9723.0	5612.1	765.3	574.3	566.0	455.2	360.9	317.2	300.7	291.3	291.3
69°	9060.3	4991.8	687.5	559.0	544.8	439.9	346.7	304.2	284.2	273.6	270.1
70°	8548.5	4564.9	654.5	546.0	524.8	422.2	336.1	294.8	272.4	260.6	258.3
72.5°	6822.0	3581.4	573.1	496.5	446.9	355.0	298.4	265.3	244.1	231.1	227.6
75°	3931.7	1941.1	475.2	431.6	359.7	275.9	252.4	231.1	214.6	202.8	199.3
77.5°	1209.9	750.0	344.3	340.8	264.2	213.4	201.7	193.4	181.6	168.6	166.3
80°	509.4	382.1	233.5	230.0	175.7	148.6	145.0	143.9	139.2	128.5	125.0
82.5°	279.5	215.8	162.7	141.5	106.1	86.1	89.6	90.8	87.3	76.7	69.6
85°	136.8	117.9	79.0	63.7	48.3	30.7	29.5	35.4	33.0	23.6	25.9
87.5°	27.1	33.0	21.2	9.4	4.7	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)