

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: P459017

Luminaire Tested: **GALN-SA5B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25983 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

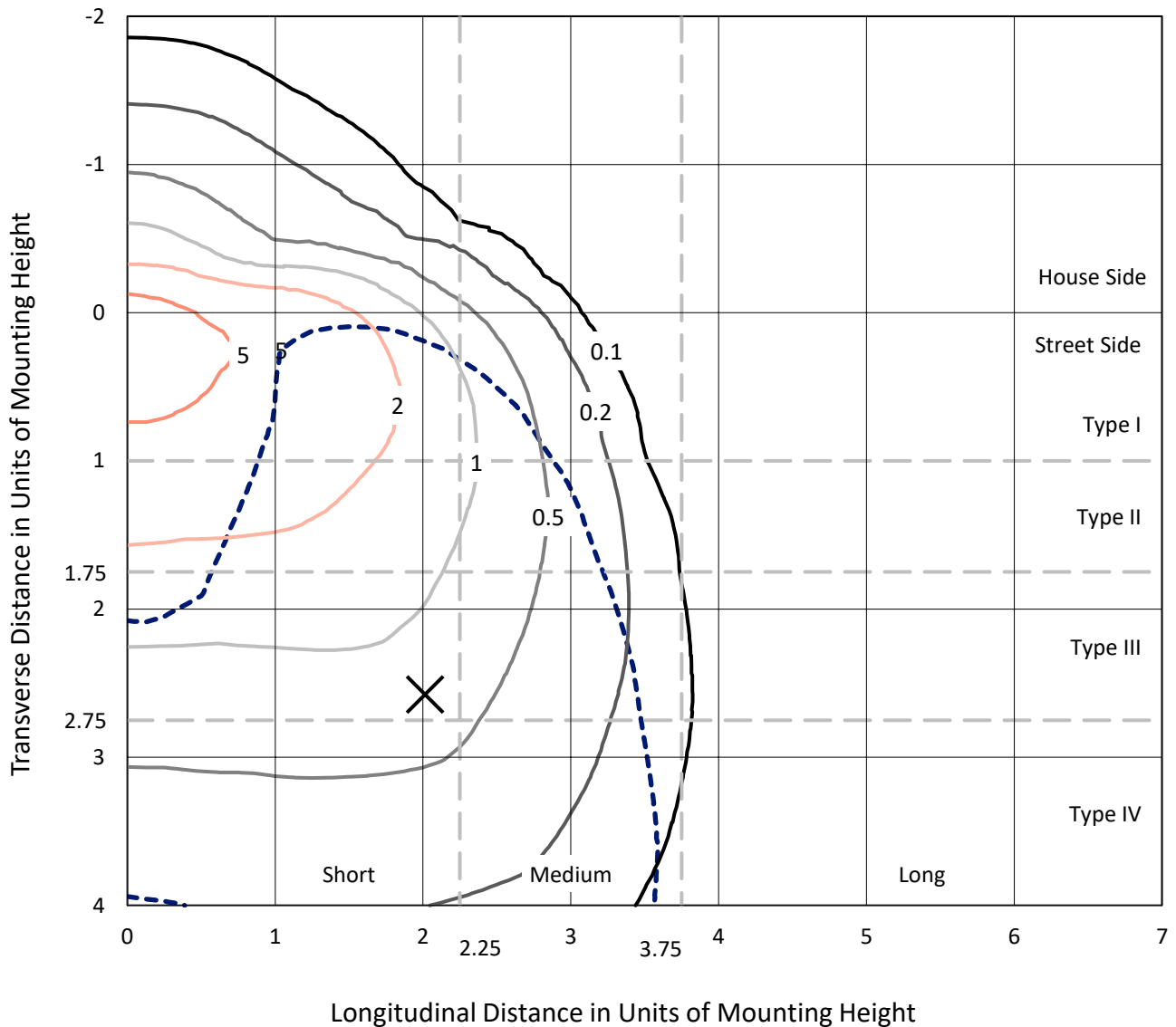
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

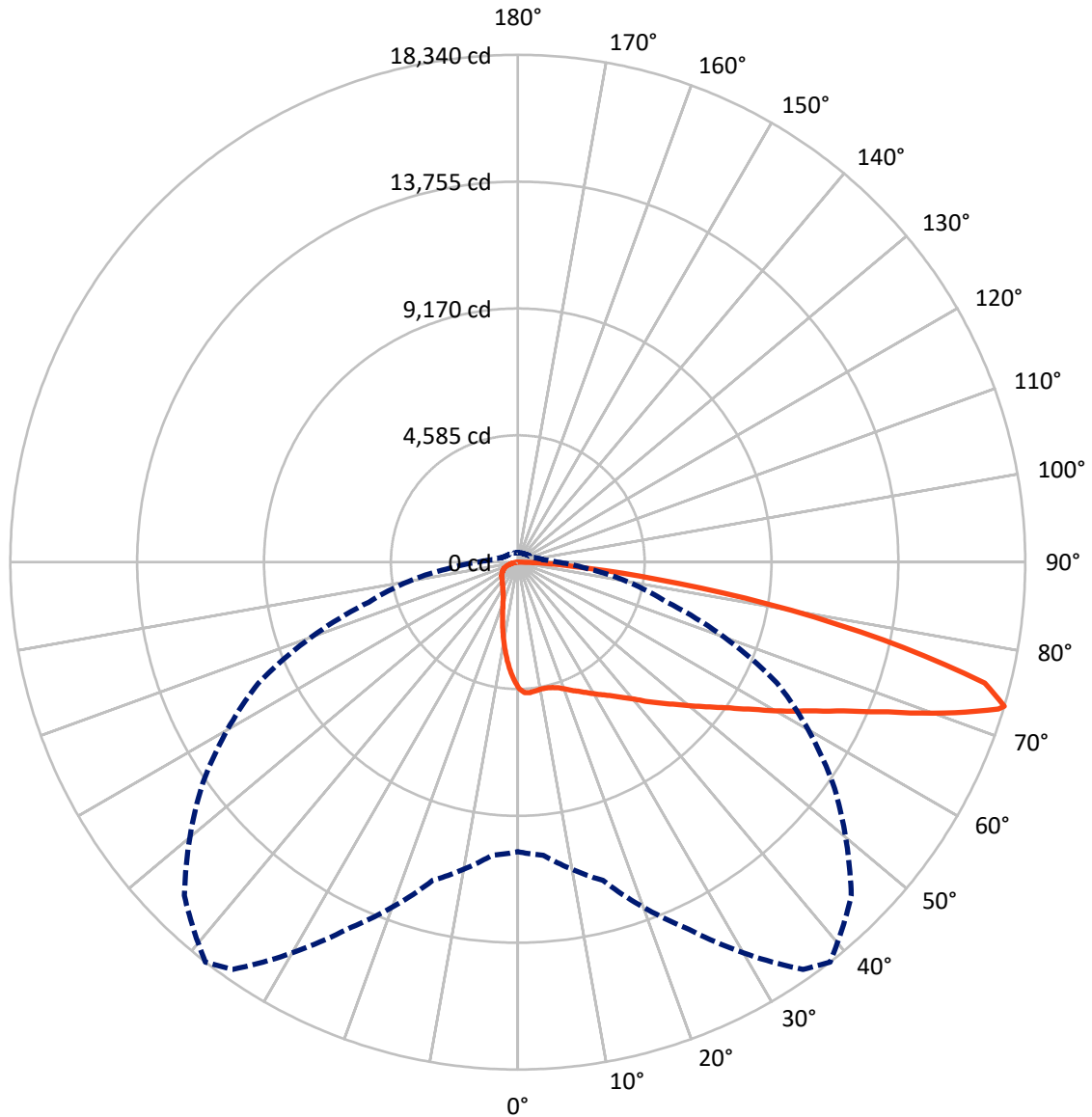
× Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3492.9	0.0	3492.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22490.1	0.0	22490.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	25983.0	0.0	25983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.4	1.5
10°-20°	1021.8	3.9
20°-30°	1591.1	6.1
30°-40°	2333.8	9.0
40°-50°	3461.9	13.3
50°-60°	4904.8	18.9
60°-70°	6221.9	23.9
70°-80°	5179.2	19.9
80°-90°	870.2	3.3
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°	25983.0	100.0
0°-180°	25983.0	100.0

Coefficient of Utilization



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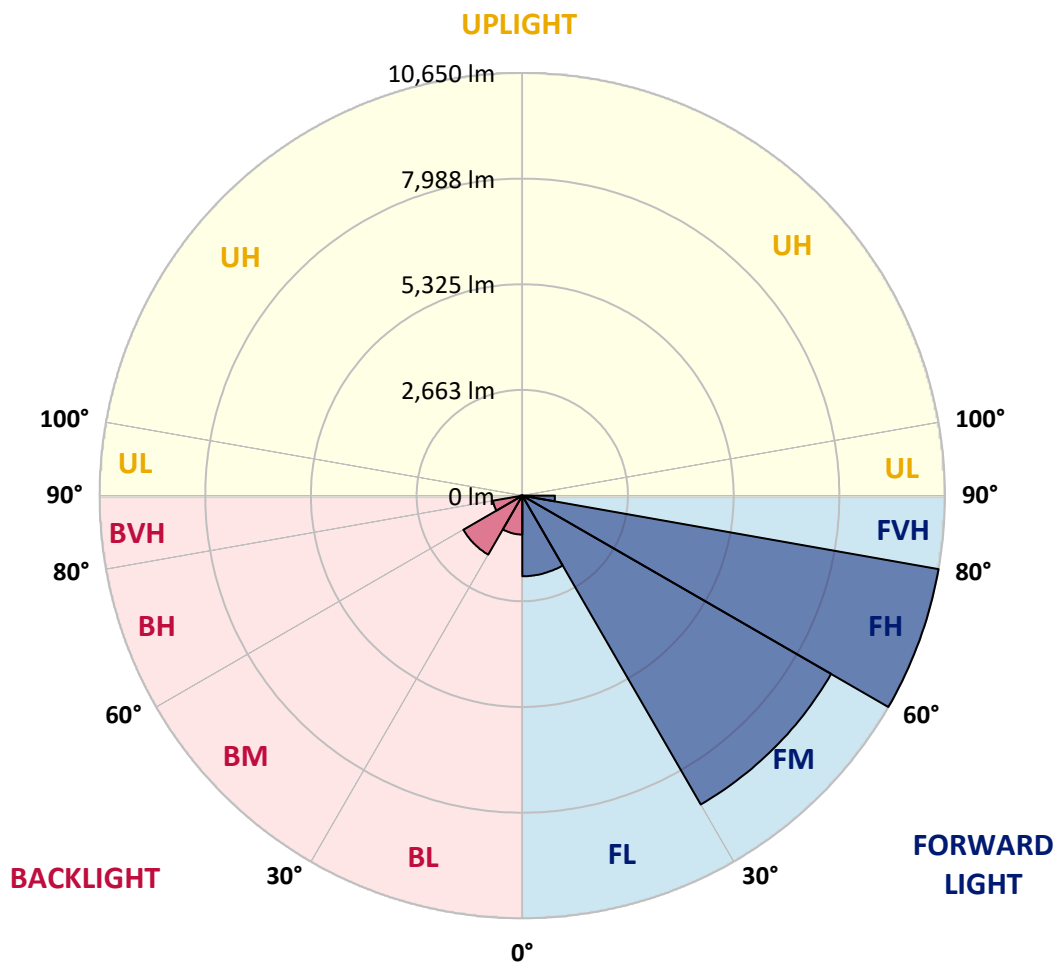
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2031.2	7.8			
FM	(30°-60°)	8985.6	34.6			
FH	(60°-80°)	10650.3	41.0			G4/12000
FVH	(80°-90°)	823.0	3.2			G5
BL	(0°-30°)	980.1	3.8	B2/1000		
BM	(30°-60°)	1714.8	6.6	B2/2500		
BH	(60°-80°)	750.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	47.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8
2.5°	4748.2	4771.7	4759.9	4743.8	4733.5	4723.2	4708.6	4666.0	4632.3	4595.6	4538.4
5°	4783.4	4798.1	4787.8	4767.3	4743.8	4733.5	4705.6	4649.9	4595.6	4534.0	4448.9
7.5°	4762.9	4768.7	4757.0	4732.0	4711.5	4692.4	4660.1	4598.5	4532.5	4457.7	4346.1
10°	4689.5	4711.5	4711.5	4691.0	4670.4	4660.1	4627.9	4569.2	4509.0	4423.9	4291.9
12.5°	4629.3	4652.8	4671.9	4666.0	4664.5	4664.5	4639.6	4595.6	4525.2	4444.5	4287.5
15°	4588.2	4616.1	4657.2	4680.7	4695.4	4699.8	4689.5	4651.3	4579.4	4485.5	4305.1
17.5°	4579.4	4613.2	4688.0	4739.4	4777.5	4776.1	4773.1	4720.3	4641.1	4544.2	4327.1
20°	4619.1	4663.1	4767.3	4848.0	4903.7	4893.4	4877.3	4808.3	4715.9	4607.3	4347.6
22.5°	4737.9	4783.4	4897.9	4985.9	5040.2	5040.2	4991.8	4900.8	4802.5	4680.7	4375.5
25°	4908.1	4958.0	5079.8	5169.3	5194.2	5175.2	5126.7	5016.7	4903.7	4786.3	4434.2
27.5°	5116.5	5176.6	5289.6	5364.5	5357.1	5342.4	5292.6	5151.7	5038.7	4931.6	4534.0
30°	5376.2	5420.2	5537.6	5555.2	5528.8	5525.9	5455.4	5314.6	5208.9	5126.7	4676.3
32.5°	5621.2	5660.8	5754.8	5762.1	5715.1	5721.0	5655.0	5525.9	5465.7	5436.3	4915.5
35°	5880.9	5901.5	5982.2	5973.4	5942.6	5938.2	5911.8	5788.5	5807.6	5860.4	5254.4
37.5°	6098.1	6139.2	6184.7	6192.0	6190.5	6205.2	6222.8	6164.1	6274.2	6440.0	5699.0
40°	6297.7	6332.9	6400.4	6423.8	6481.1	6510.4	6570.6	6572.0	6825.9	7098.8	6246.3
42.5°	6432.6	6492.8	6619.0	6661.5	6800.9	6889.0	6978.5	7073.9	7442.1	7792.8	6891.9
45°	6550.0	6629.3	6839.1	6971.1	7160.4	7267.5	7456.8	7656.4	8186.1	8645.3	7547.8
47.5°	6727.6	6798.0	7038.6	7271.9	7558.1	7681.3	7964.5	8262.4	8954.9	9458.2	8175.8
50°	6974.1	7016.6	7261.7	7641.7	8007.1	8165.5	8539.7	8969.6	9776.6	10260.8	8727.5
52.5°	7289.6	7307.2	7502.3	8008.5	8489.8	8686.4	9182.4	9684.2	10495.6	10957.8	9164.8
55°	7662.2	7632.9	7785.5	8397.4	9041.5	9298.3	9830.9	10407.6	11304.1	11521.2	9483.2
57.5°	8030.5	7985.1	8106.8	8869.8	9722.3	10031.9	10652.6	11153.0	12026.0	12048.0	9706.2
60°	8420.8	8387.1	8532.4	9424.5	10557.2	10924.1	11497.8	11926.2	12724.4	12414.8	9741.4
62.5°	8821.4	8767.1	8974.0	10048.1	11497.8	11830.8	12387.0	12747.9	13409.7	12551.3	9402.5
65°	9210.2	9185.3	9505.2	10789.1	12568.9	12947.5	13487.4	13732.5	13958.4	12345.9	8561.7
67.5°	9624.0	9673.9	10184.5	11778.0	13965.8	14441.2	15023.7	14793.3	14115.4	11373.0	7210.3
70°	10255.0	10287.2	11076.7	13073.6	15766.1	16339.9	16621.6	15170.4	13358.3	9525.7	5420.2
72.5°	10526.4	10668.7	11873.4	14433.8	17811.6	18162.2	17158.6	14329.7	11128.0	6470.8	2848.0
73°	10466.3	10636.5	11910.1	14640.7	17971.5	18339.8	17044.2	13896.8	10344.5	5572.8	2441.6
75°	9716.5	9926.3	11433.2	14467.6	17660.4	17440.3	15204.2	11844.1	6990.2	2534.0	1112.2
77.5°	7666.6	7726.8	9059.1	11682.6	13907.1	13499.2	11378.9	7402.5	2855.4	942.0	630.9
80°	3845.8	4067.4	5106.2	6692.4	9299.8	9166.2	7182.4	3501.0	1190.0	553.2	418.2
82.5°	1850.3	2007.3	2487.1	3263.3	5138.5	5016.7	3556.7	1913.4	755.7	322.8	246.5
85°	1191.4	1308.8	1583.2	1556.8	2112.9	2017.5	1597.9	1448.2	447.5	168.7	171.7
87.5°	786.5	861.3	1033.0	826.1	768.9	695.5	705.8	815.8	88.0	64.6	23.5
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°	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8
2.5°	4514.9	4495.8	4432.7	4371.1	4312.4	4256.6	4220.0	4171.5	4139.3	4148.1	4161.3
5°	4401.9	4359.4	4247.8	4139.3	4036.5	3914.8	3816.4	3737.2	3677.1	3655.0	3650.6
7.5°	4283.1	4211.2	4051.2	3864.9	3690.3	3539.1	3364.5	3277.9	3176.7	3141.5	3129.8
10°	4211.2	4114.3	3889.8	3630.1	3367.5	3116.5	2927.3	2773.2	2633.8	2607.4	2594.2
12.5°	4190.6	4063.0	3760.7	3426.1	3076.9	2768.8	2488.5	2286.1	2151.1	2120.2	2074.8
15°	4178.9	4020.4	3640.4	3220.7	2777.6	2402.0	2107.0	1870.8	1747.6	1665.4	1666.9
17.5°	4168.6	3972.0	3505.4	2996.2	2519.4	2086.5	1760.8	1548.0	1435.0	1391.0	1386.6
20°	4153.9	3914.8	3349.8	2760.0	2224.4	1798.9	1504.0	1345.5	1269.2	1232.5	1231.1
22.5°	4148.1	3859.0	3197.2	2519.4	1963.2	1577.3	1333.8	1222.3	1173.8	1148.9	1148.9
25°	4162.7	3819.4	3037.3	2290.5	1731.4	1388.1	1216.4	1140.1	1112.2	1099.0	1094.6
27.5°	4208.2	3801.8	2878.8	2061.6	1518.7	1258.9	1137.2	1084.3	1063.8	1053.5	1055.0
30°	4294.8	3800.3	2723.3	1835.6	1360.2	1160.6	1074.1	1037.4	1021.2	1015.4	1013.9
32.5°	4434.2	3832.6	2570.7	1649.2	1226.7	1078.5	1015.4	989.0	981.6	977.2	975.8
35°	4670.4	3923.6	2419.6	1479.0	1124.0	1005.1	959.6	946.4	936.1	940.5	942.0
37.5°	4988.8	4080.6	2275.8	1345.5	1046.2	950.8	912.7	900.9	895.1	899.5	903.9
40°	5415.8	4306.5	2155.5	1238.4	990.4	905.3	871.6	861.3	855.4	862.8	864.2
42.5°	5886.8	4567.7	2055.7	1154.8	944.9	867.2	834.9	823.2	818.8	823.2	824.6
45°	6371.0	4871.4	2004.3	1094.6	906.8	839.3	805.5	792.3	782.1	779.1	783.5
47.5°	6847.9	5135.6	2002.9	1057.9	876.0	814.4	777.7	763.0	749.8	742.5	741.0
50°	7236.7	5345.4	2038.1	1041.8	849.6	786.5	749.8	735.1	717.5	702.8	705.8
52.5°	7530.2	5481.8	2054.2	1034.4	834.9	757.1	720.4	707.2	686.7	667.6	667.6
55°	7719.5	5514.1	2014.6	1027.1	823.2	726.3	686.7	675.0	654.4	635.3	635.3
57.5°	7784.0	5414.3	1872.3	1009.5	811.4	699.9	652.9	642.7	626.5	607.5	604.5
60°	7634.4	5076.9	1622.8	956.7	787.9	672.0	616.3	611.9	606.0	589.9	588.4
62.5°	7057.7	4360.8	1351.4	887.7	748.3	642.7	582.5	589.9	594.3	585.5	584.0
65°	6098.1	3540.6	1154.8	792.3	695.5	601.6	545.8	564.9	576.6	576.6	573.7
67.5°	4946.3	2718.9	972.8	710.2	629.5	545.8	504.8	519.4	528.2	525.3	532.6
70°	3515.7	1841.5	792.3	616.3	545.8	482.7	451.9	451.9	446.1	443.1	443.1
72.5°	1705.0	1052.1	642.7	515.0	465.1	412.3	387.4	377.1	365.4	363.9	356.6
73°	1424.7	943.5	613.3	495.9	446.1	402.0	374.2	358.0	350.7	344.8	343.3
75°	867.2	716.0	512.1	418.2	380.0	346.3	321.3	306.7	299.3	294.9	293.5
77.5°	570.8	534.1	397.6	319.9	290.5	270.0	259.7	245.0	240.6	234.8	234.8
80°	425.5	407.9	284.7	226.0	208.4	190.7	187.8	184.9	173.1	165.8	162.9
82.5°	274.4	290.5	193.7	151.1	132.1	117.4	118.9	123.3	111.5	101.2	98.3
85°	195.2	209.8	117.4	69.0	55.8	48.4	54.3	48.4	49.9	39.6	32.3
87.5°	32.3	55.8	20.5	8.8	4.4	2.9	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)