

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: P459104

Luminaire Tested: **GALN-SA6A-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459104
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-SA6A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 24727 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

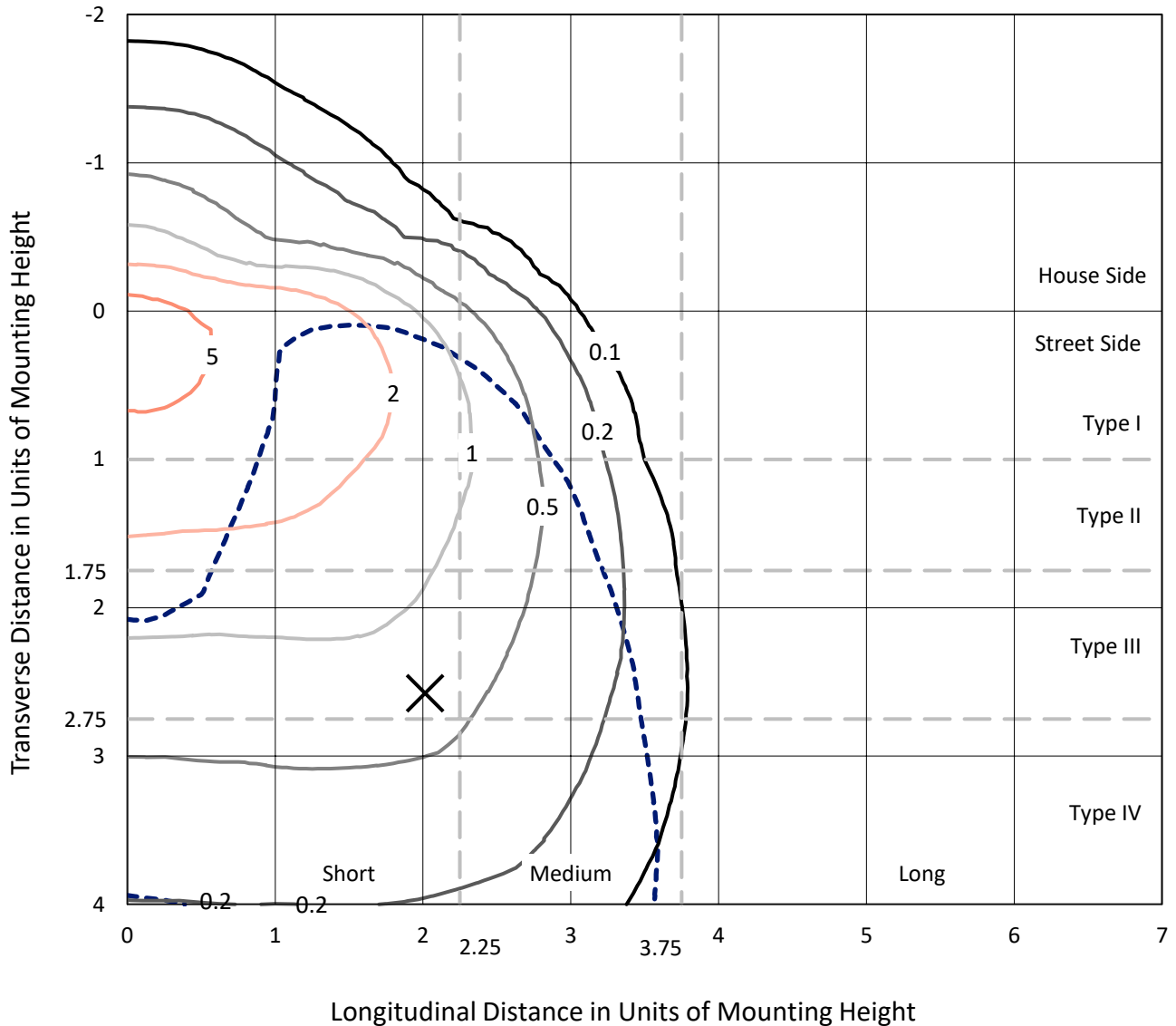
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

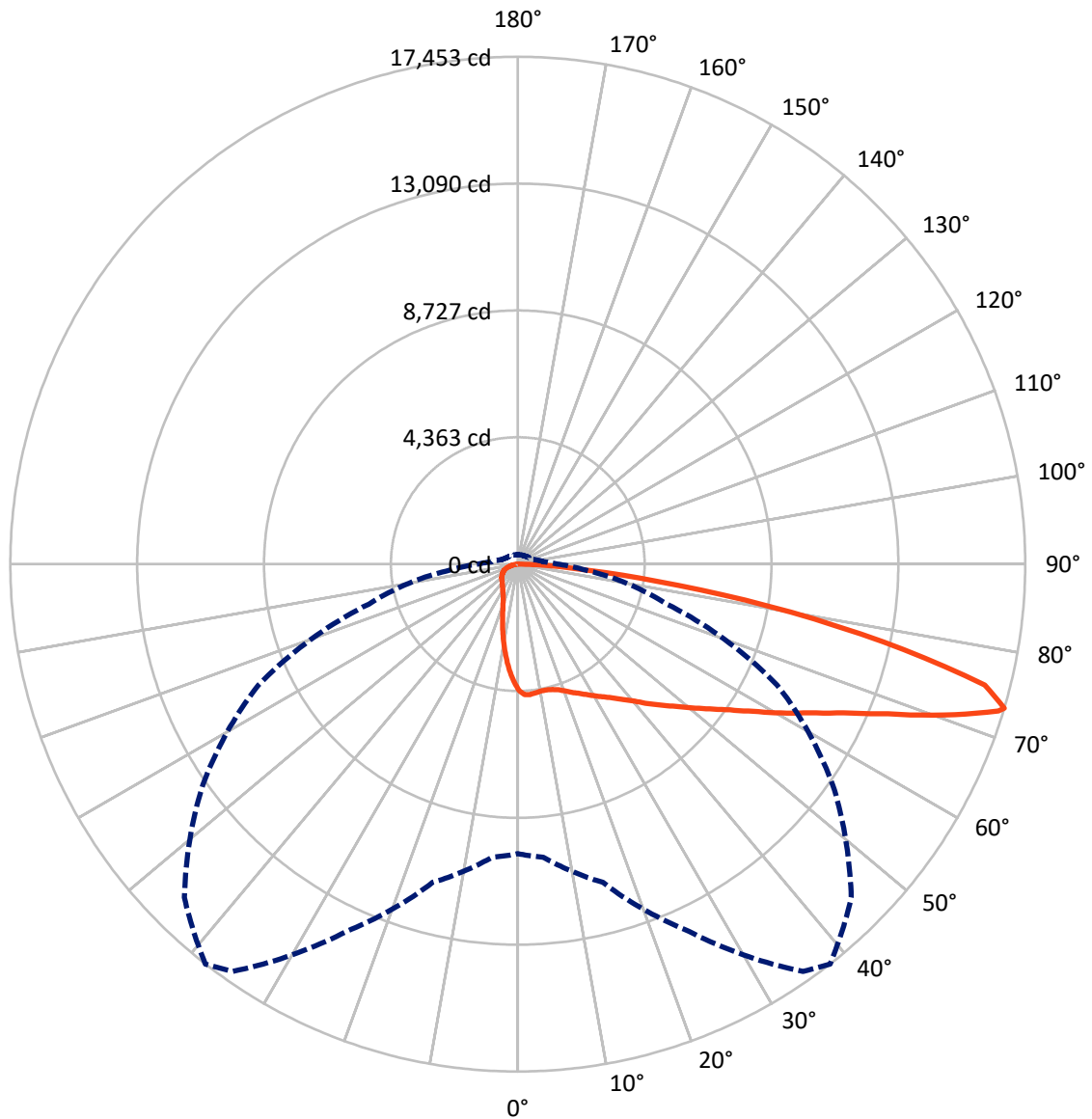
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3324.0	0.0	3324.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21403.0	0.0	21403.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	24727.0	0.0	24727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.5
10°-20°	972.4	3.9
20°-30°	1514.2	6.1
30°-40°	2221.0	9.0
40°-50°	3294.5	13.3
50°-60°	4667.7	18.9
60°-70°	5921.1	23.9
70°-80°	4928.9	19.9
80°-90°	828.1	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°	24727.0	100.0
0°-180°	24727.0	100.0

Coefficient of Utilization



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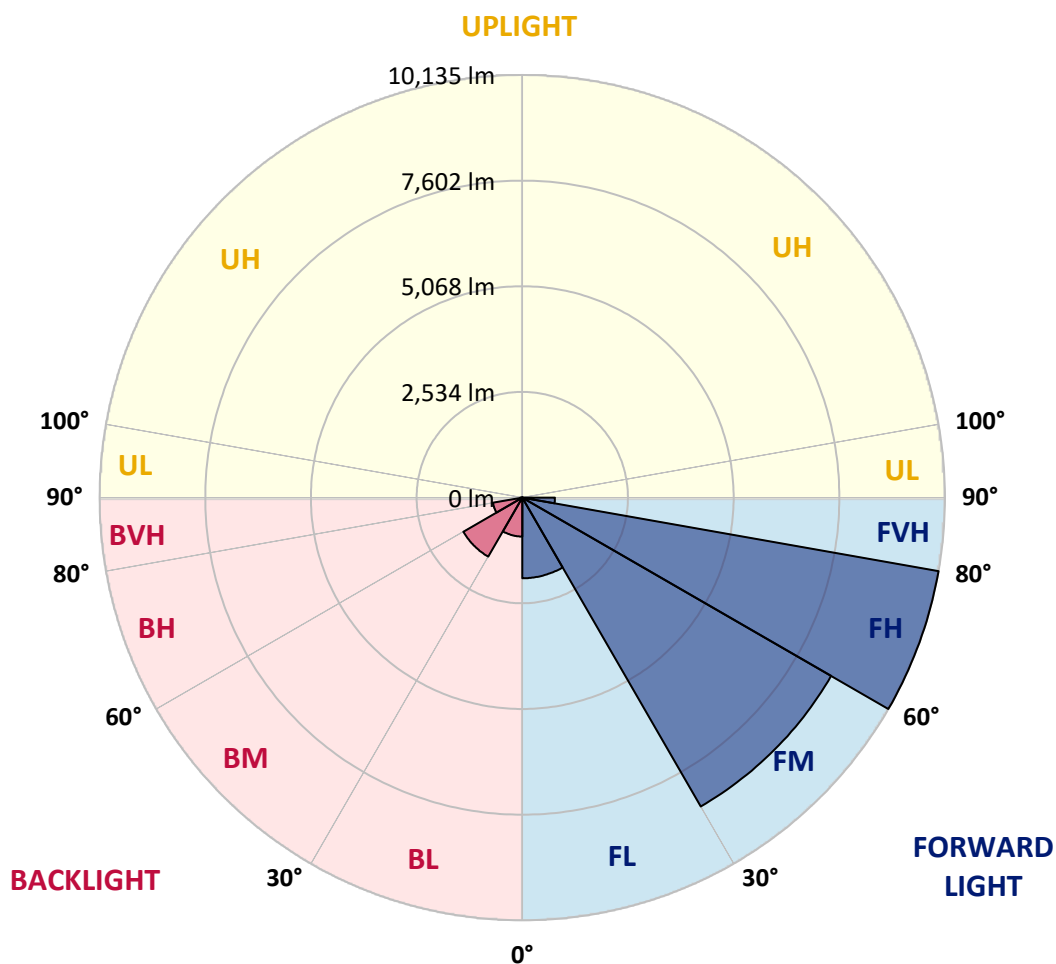
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1933.0	7.8			
FM	(30°-60°)	8551.3	34.6			
FH	(60°-80°)	10135.5	41.0			G4/12000
FVH	(80°-90°)	783.2	3.2			G5
BL	(0°-30°)	932.8	3.8	B2/1000		
BM	(30°-60°)	1631.9	6.6	B2/2500		
BH	(60°-80°)	714.5	2.9	B2/1000		G2/1000
BVH	(80°-90°)	44.9	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°	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1
2.5°	4518.7	4541.0	4529.8	4514.5	4504.7	4494.9	4481.0	4440.5	4408.3	4373.4	4319.0
5°	4552.2	4566.1	4556.4	4536.8	4514.5	4504.7	4478.2	4425.1	4373.4	4314.8	4233.8
7.5°	4532.6	4538.2	4527.0	4503.3	4483.8	4465.6	4434.9	4376.2	4313.4	4242.2	4136.1
10°	4462.8	4483.8	4483.8	4464.2	4444.7	4434.9	4404.2	4348.3	4291.1	4210.1	4084.4
12.5°	4405.6	4427.9	4446.1	4440.5	4439.1	4439.1	4415.3	4373.4	4306.4	4229.6	4080.2
15°	4366.5	4393.0	4432.1	4454.4	4468.4	4472.6	4462.8	4426.5	4358.1	4268.7	4097.0
17.5°	4358.1	4390.2	4461.4	4510.3	4546.6	4545.2	4542.4	4492.1	4416.7	4324.6	4117.9
20°	4395.8	4437.7	4536.8	4613.6	4666.7	4656.9	4641.5	4575.9	4487.9	4384.6	4137.5
22.5°	4508.9	4552.2	4661.1	4744.9	4796.5	4796.5	4750.5	4663.9	4570.3	4454.4	4164.0
25°	4670.9	4718.3	4834.2	4919.4	4943.2	4925.0	4878.9	4774.2	4666.7	4555.0	4219.8
27.5°	4869.2	4926.4	5033.9	5105.1	5098.2	5084.2	5036.7	4902.7	4795.1	4693.2	4314.8
30°	5116.3	5158.2	5269.9	5286.7	5261.5	5258.7	5191.7	5057.7	4957.1	4878.9	4450.2
32.5°	5349.5	5387.2	5476.6	5483.6	5438.9	5444.5	5381.6	5258.7	5201.5	5173.6	4677.8
35°	5596.7	5616.2	5693.0	5684.6	5655.3	5651.1	5626.0	5508.7	5526.8	5577.1	5000.4
37.5°	5803.3	5842.4	5885.7	5892.7	5891.3	5905.3	5922.0	5866.2	5970.9	6128.7	5423.5
40°	5993.2	6026.7	6091.0	6113.3	6167.8	6195.7	6253.0	6254.4	6495.9	6755.7	5944.4
42.5°	6121.7	6178.9	6299.0	6339.5	6472.2	6556.0	6641.1	6731.9	7082.4	7416.1	6558.8
45°	6233.4	6308.8	6508.5	6634.2	6814.3	6916.2	7096.4	7286.3	7790.4	8227.4	7182.9
47.5°	6402.4	6469.4	6698.4	6920.4	7192.7	7310.0	7579.5	7863.0	8522.1	9001.0	7780.6
50°	6637.0	6677.5	6910.6	7272.3	7620.0	7770.8	8126.9	8536.0	9304.0	9764.8	8305.6
52.5°	6937.2	6953.9	7139.7	7621.4	8079.4	8266.5	8738.5	9216.1	9988.3	10428.1	8721.7
55°	7291.9	7263.9	7409.2	7991.4	8604.4	8848.8	9355.7	9904.5	10757.7	10964.3	9024.8
57.5°	7642.3	7599.1	7715.0	8441.1	9252.4	9547.0	10137.7	10613.8	11444.7	11465.6	9237.0
60°	8013.8	7981.7	8119.9	8968.9	10046.9	10396.0	10942.0	11349.7	12109.3	11814.7	9270.5
62.5°	8395.0	8343.3	8540.2	9562.4	10942.0	11259.0	11788.2	12131.7	12761.4	11944.6	8948.0
65°	8765.0	8741.3	9045.7	10267.5	11961.3	12321.6	12835.5	13068.7	13283.7	11749.1	8147.8
67.5°	9158.8	9206.3	9692.2	11208.7	13290.7	13743.1	14297.5	14078.2	13433.1	10823.3	6861.8
70°	9759.2	9790.0	10541.2	12441.7	15004.0	15550.0	15818.1	14437.1	12712.6	9065.3	5158.2
72.5°	10017.6	10153.0	11299.4	13736.1	16950.6	17284.3	16329.2	13637.0	10590.1	6158.0	2710.4
73°	9960.3	10122.3	11334.4	13933.0	17102.8	17453.3	16220.3	13225.0	9844.4	5303.4	2323.6
75°	9246.8	9446.5	10880.5	13768.2	16806.7	16597.3	14469.2	11271.5	6652.3	2411.5	1058.5
77.5°	7296.0	7353.3	8621.2	11117.9	13234.8	12846.6	10828.9	7044.7	2717.3	896.5	600.4
80°	3659.9	3870.7	4859.4	6368.9	8850.2	8723.1	6835.2	3331.7	1132.5	526.4	398.0
82.5°	1760.8	1910.2	2366.9	3105.5	4890.1	4774.2	3384.8	1820.9	719.1	307.2	234.6
85°	1133.9	1245.6	1506.7	1481.6	2010.8	1920.0	1520.6	1378.2	425.9	160.6	163.4
87.5°	748.5	819.7	983.0	786.2	731.7	661.9	671.7	776.4	83.8	61.4	22.3
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°	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1	4344.1
2.5°	4296.6	4278.5	4218.4	4159.8	4103.9	4050.9	4016.0	3969.9	3939.2	3947.5	3960.1
5°	4189.1	4148.6	4042.5	3939.2	3841.4	3725.5	3632.0	3556.6	3499.3	3478.4	3474.2
7.5°	4076.0	4007.6	3855.4	3678.0	3511.9	3368.1	3201.9	3119.5	3023.1	2989.6	2978.5
10°	4007.6	3915.4	3701.8	3454.6	3204.7	2965.9	2785.8	2639.1	2506.5	2481.4	2468.8
12.5°	3988.0	3866.6	3578.9	3260.5	2928.2	2635.0	2368.2	2175.5	2047.1	2017.8	1974.5
15°	3976.9	3826.1	3464.4	3065.0	2643.3	2285.9	2005.2	1780.4	1663.1	1584.9	1586.3
17.5°	3967.1	3780.0	3335.9	2851.4	2397.6	1985.6	1675.6	1473.2	1365.7	1323.8	1319.6
20°	3953.1	3725.5	3187.9	2626.6	2116.9	1712.0	1431.3	1280.5	1207.9	1173.0	1171.6
22.5°	3947.5	3672.5	3042.7	2397.6	1868.3	1501.1	1269.3	1163.2	1117.1	1093.4	1093.4
25°	3961.5	3634.8	2890.5	2179.7	1647.7	1321.0	1157.6	1085.0	1058.5	1045.9	1041.7
27.5°	4004.8	3618.0	2739.7	1961.9	1445.2	1198.1	1082.2	1031.9	1012.4	1002.6	1004.0
30°	4087.2	3616.6	2591.7	1746.9	1294.4	1104.5	1022.1	987.2	971.9	966.3	964.9
32.5°	4219.8	3647.3	2446.4	1569.5	1167.4	1026.3	966.3	941.2	934.2	930.0	928.6
35°	4444.7	3733.9	2302.6	1407.5	1069.6	956.5	913.2	900.7	890.9	895.1	896.5
37.5°	4747.7	3883.3	2165.8	1280.5	995.6	904.8	868.5	857.4	851.8	856.0	860.2
40°	5154.0	4098.4	2051.3	1178.5	942.6	861.6	829.4	819.7	814.1	821.1	822.5
42.5°	5602.2	4346.9	1956.3	1098.9	899.3	825.3	794.5	783.4	779.2	783.4	784.8
45°	6063.0	4636.0	1907.4	1041.7	863.0	798.7	766.6	754.0	744.3	741.5	745.7
47.5°	6516.9	4887.3	1906.0	1006.8	833.6	775.0	740.1	726.1	713.5	706.6	705.2
50°	6886.9	5087.0	1939.6	991.4	808.5	748.5	713.5	699.6	682.8	668.9	671.7
52.5°	7166.2	5216.8	1954.9	984.4	794.5	720.5	685.6	673.1	653.5	635.3	635.3
55°	7346.3	5247.6	1917.2	977.5	783.4	691.2	653.5	642.3	622.8	604.6	604.6
57.5°	7407.8	5152.6	1781.8	960.7	772.2	666.1	621.4	611.6	596.3	578.1	575.3
60°	7265.3	4831.4	1544.4	910.4	749.9	639.5	586.5	582.3	576.7	561.3	559.9
62.5°	6716.6	4150.0	1286.1	844.8	712.1	611.6	554.4	561.3	565.5	557.2	555.8
65°	5803.3	3369.4	1098.9	754.0	661.9	572.5	519.5	537.6	548.8	548.8	546.0
67.5°	4707.2	2587.5	925.8	675.8	599.0	519.5	480.4	494.3	502.7	499.9	506.9
70°	3345.7	1752.4	754.0	586.5	519.5	459.4	430.1	430.1	424.5	421.7	421.7
72.5°	1622.6	1001.2	611.6	490.1	442.7	392.4	368.6	358.9	347.7	346.3	339.3
73°	1355.9	897.9	583.7	472.0	424.5	382.6	356.1	340.7	333.7	328.1	326.8
75°	825.3	681.4	487.3	398.0	361.7	329.5	305.8	291.8	284.9	280.7	279.3
77.5°	543.2	508.3	378.4	304.4	276.5	256.9	247.2	233.2	229.0	223.4	223.4
80°	404.9	388.2	270.9	215.0	198.3	181.5	178.7	175.9	164.8	157.8	155.0
82.5°	261.1	276.5	184.3	143.8	125.7	111.7	113.1	117.3	106.1	96.3	93.6
85°	185.7	199.7	111.7	65.6	53.1	46.1	51.7	46.1	47.5	37.7	30.7
87.5°	30.7	53.1	19.5	8.4	4.2	2.8	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)