

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: P454085

Luminaire Tested: **GALN-SA5A-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454085
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-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 18038 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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



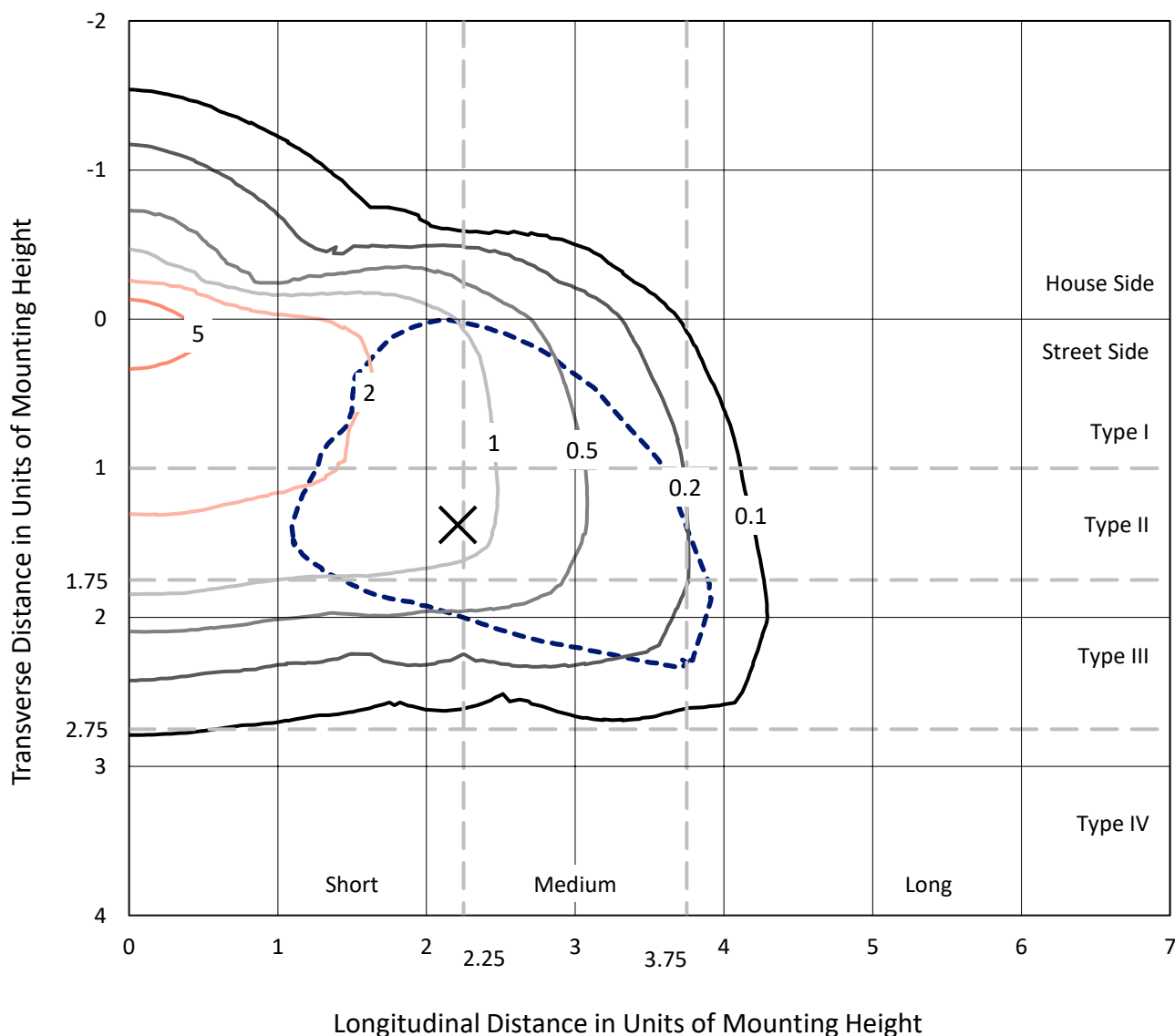
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

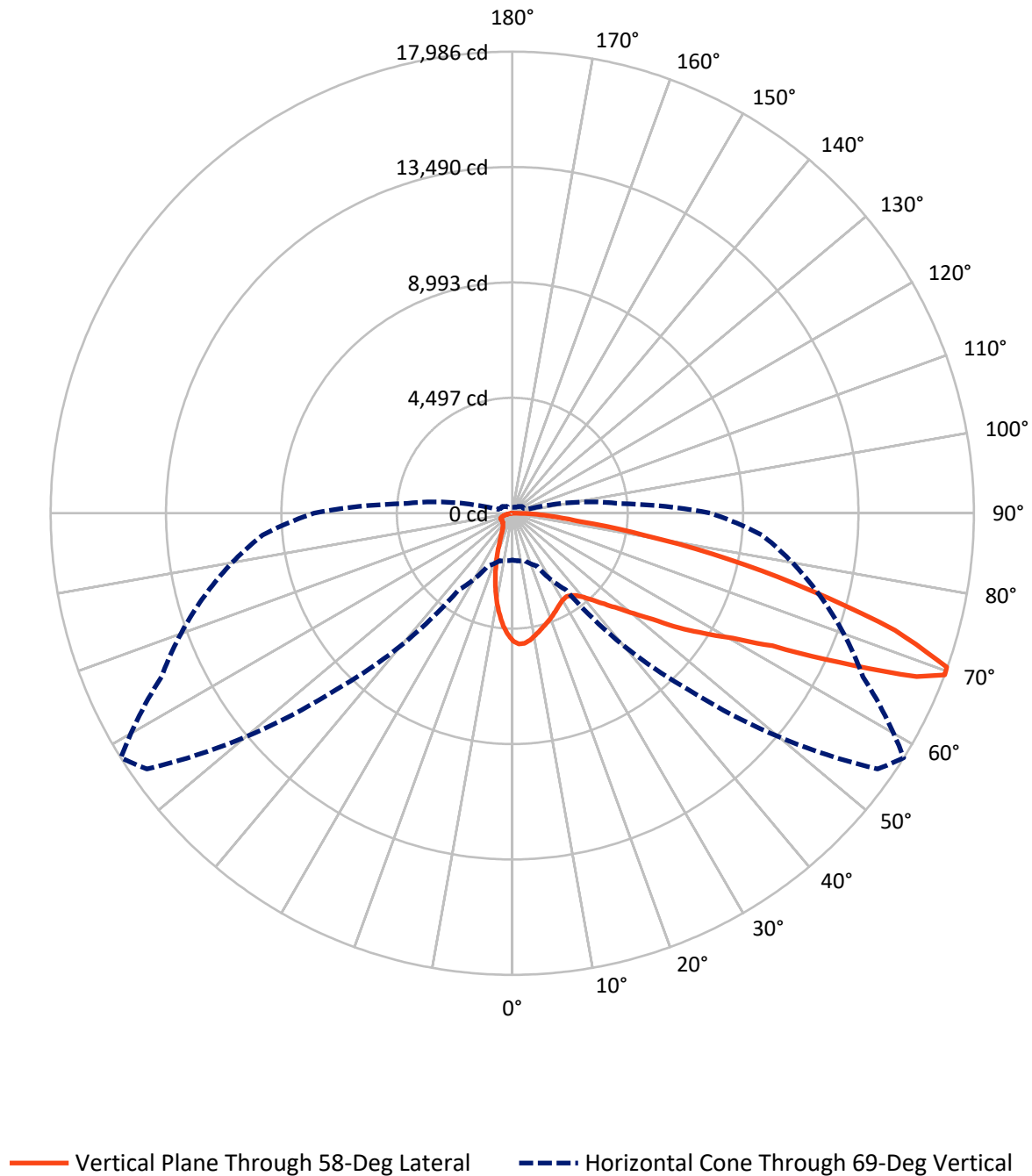
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2643.5	0.0	2643.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15394.5	0.0	15394.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	18038.0	0.0	18038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.3	2.3
10°-20°	929.5	5.2
20°-30°	1201.0	6.7
30°-40°	1559.8	8.6
40°-50°	2267.8	12.6
50°-60°	3618.6	20.1
60°-70°	4834.0	26.8
70°-80°	2786.6	15.4
80°-90°	417.4	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°	18038.0	100.0
0°-180°	18038.0	100.0

Coefficient of Utilization



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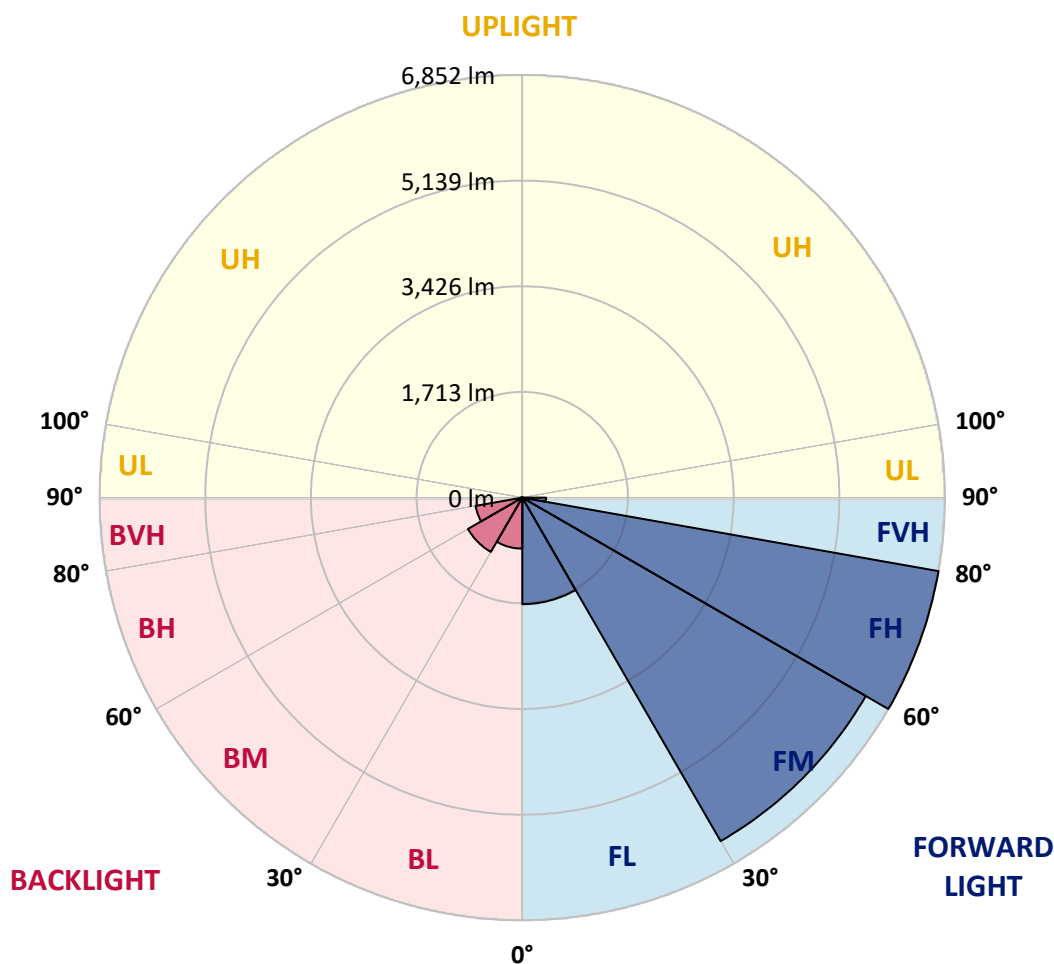
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1727.6	9.6			
FM	(30°-60°)	6429.6	35.6			
FH	(60°-80°)	6851.9	38.0			G3/7500
FVH	(80°-90°)	385.4	2.1			G3/500
BL	(0°-30°)	826.2	4.6	B2/1000		
BM	(30°-60°)	1016.6	5.6	B2/2500		
BH	(60°-80°)	768.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	32.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6
2.5°	5169.7	5183.8	5179.8	5174.8	5166.7	5144.6	5108.4	5102.3	5079.2	5029.9	4968.6
5°	5090.3	5102.3	5103.4	5110.4	5120.5	5116.4	5090.3	5087.3	5053.1	4986.7	4884.0
7.5°	4817.7	4833.7	4869.0	4908.2	4943.4	4976.6	4984.6	4989.7	4968.6	4892.1	4755.3
10°	4510.8	4526.9	4543.0	4601.4	4687.9	4770.4	4838.8	4847.8	4852.9	4782.4	4615.5
12.5°	4170.8	4204.0	4238.2	4324.7	4440.4	4570.2	4690.9	4710.0	4744.2	4690.9	4494.7
15°	3882.1	3916.3	3965.6	4043.0	4182.9	4370.0	4540.0	4571.2	4638.6	4611.4	4382.1
17.5°	3681.9	3694.0	3728.2	3816.7	3967.6	4164.8	4392.1	4454.5	4562.1	4555.1	4285.5
20°	3524.0	3539.0	3560.2	3614.5	3771.4	3979.7	4254.3	4334.8	4480.6	4504.8	4189.9
22.5°	3457.6	3468.6	3465.6	3494.8	3601.4	3810.7	4114.5	4210.0	4408.2	4470.6	4101.4
25°	3461.6	3471.6	3456.6	3449.5	3512.9	3661.8	3968.6	4090.3	4349.9	4447.5	4020.9
27.5°	3529.0	3536.0	3507.9	3479.7	3484.7	3569.2	3847.9	3982.7	4300.6	4457.5	3953.5
30°	3619.5	3632.6	3614.5	3580.3	3543.1	3547.1	3770.4	3903.2	4277.4	4492.7	3921.3
32.5°	3736.2	3748.3	3740.2	3713.1	3664.8	3611.5	3751.3	3874.0	4279.5	4564.1	3914.3
35°	3859.0	3883.1	3896.2	3894.2	3854.9	3762.4	3826.8	3928.4	4327.7	4683.9	3955.5
37.5°	3997.8	4017.9	4074.2	4110.4	4074.2	3966.6	3996.8	4067.2	4434.4	4856.9	4046.1
40°	4132.6	4162.8	4245.2	4357.9	4343.8	4249.3	4256.3	4302.6	4622.5	5114.4	4223.1
42.5°	4273.4	4309.6	4453.5	4620.5	4653.7	4580.2	4599.4	4640.6	4890.1	5471.5	4526.9
45°	4454.5	4497.8	4674.8	4883.0	5013.8	4968.6	5022.9	5043.0	5248.2	5936.3	4927.3
47.5°	4687.9	4738.2	4956.5	5216.0	5401.1	5442.4	5536.9	5524.9	5691.9	6486.6	5446.4
50°	5081.2	5109.4	5315.6	5580.2	5834.7	6020.8	6123.4	6142.5	6242.1	7021.8	6026.8
52.5°	5549.0	5574.2	5723.0	5954.4	6273.3	6667.7	6921.2	6858.8	6882.9	7673.6	6705.9
55°	6075.1	6117.4	6211.9	6365.9	6779.3	7359.8	7868.8	7883.9	7616.3	8297.4	7356.8
57.5°	6482.6	6554.0	6715.9	6935.2	7459.4	8129.4	8813.4	8823.5	8481.4	8963.3	8075.0
60°	6277.3	6361.8	6732.0	7266.2	8351.7	9472.3	9942.1	9884.8	9323.5	9721.8	8951.2
62.5°	5392.1	5407.2	5945.4	6780.3	8626.3	11269.0	11622.1	11379.7	10447.1	10683.5	9841.5
65°	3489.8	3588.3	4014.9	5184.8	7723.9	12266.0	14565.6	14005.3	12022.5	11775.0	10587.0
67.5°	2203.1	2178.0	2355.0	2960.6	5312.6	11387.7	17077.6	16989.0	14082.8	12464.1	10408.9
69°	1826.9	1855.0	1915.4	2269.5	3655.7	9722.8	17374.3	17986.0	15081.7	12409.8	9762.1
70°	1656.9	1669.9	1733.3	2012.0	2820.8	8143.4	16887.4	17958.8	15474.0	12182.5	9293.3
72.5°	1314.8	1313.8	1422.5	1674.0	2108.5	4648.6	13866.5	15591.7	15035.4	11124.2	7678.7
75°	998.9	1015.0	1134.7	1416.4	1942.6	2540.1	9676.6	12007.4	12008.4	8786.3	4791.5
77.5°	720.3	730.3	870.2	1189.1	1829.9	2059.2	6445.3	8612.2	8096.2	4025.9	1506.0
80°	471.8	477.8	584.5	941.6	1649.8	1942.6	3821.7	5271.4	3818.7	1068.4	498.0
82.5°	258.5	288.7	357.1	609.6	1323.9	1794.7	2322.8	2667.9	1432.5	475.8	259.5
85°	129.8	137.8	201.2	356.1	865.1	1484.8	1617.6	1530.1	739.4	236.4	134.8
87.5°	38.2	48.3	83.5	137.8	351.1	773.6	900.4	807.8	284.7	85.5	28.2
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°	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6	4984.6
2.5°	4943.4	4925.3	4844.8	4772.4	4706.0	4635.6	4576.2	4523.9	4528.9	4529.9	4476.6
5°	4830.7	4789.5	4636.6	4493.7	4373.0	4220.1	4089.3	4004.8	3962.6	3906.2	3926.4
7.5°	4677.8	4598.3	4386.1	4148.7	3926.4	3728.2	3512.9	3365.0	3270.5	3178.9	3191.0
10°	4519.9	4392.1	4083.3	3769.4	3481.7	3164.8	2890.2	2654.8	2479.7	2414.4	2371.1
12.5°	4357.9	4189.9	3797.6	3380.1	2982.7	2603.5	2214.2	1961.7	1768.5	1665.9	1679.0
15°	4210.0	4005.8	3499.8	2990.8	2474.7	2023.0	1634.7	1394.3	1259.5	1231.3	1247.4
17.5°	4073.2	3805.6	3221.2	2612.5	2010.0	1517.0	1228.3	1092.5	1038.2	1023.1	1022.1
20°	3932.4	3635.6	2908.3	2208.1	1566.3	1176.0	1008.0	944.6	934.6	940.6	941.6
22.5°	3789.5	3425.4	2586.4	1806.7	1247.4	961.7	881.2	864.1	872.2	886.3	888.3
25°	3657.8	3240.3	2276.5	1454.7	995.9	845.0	805.8	805.8	823.9	845.0	846.0
27.5°	3549.1	3061.2	1967.7	1154.9	834.0	760.5	747.4	754.5	779.6	795.7	796.7
30°	3459.6	2894.2	1676.0	925.5	733.4	693.1	690.1	702.2	720.3	735.4	736.4
32.5°	3392.2	2747.3	1403.3	777.6	663.9	641.8	640.8	649.9	659.9	663.9	668.0
35°	3366.0	2625.6	1153.9	684.1	617.7	603.6	603.6	602.6	606.6	608.6	610.6
37.5°	3387.1	2532.1	960.7	623.7	583.5	573.4	567.4	561.3	559.3	559.3	560.3
40°	3476.7	2482.8	816.9	584.5	559.3	544.2	533.2	526.1	519.1	521.1	523.1
42.5°	3666.8	2491.8	719.3	558.3	538.2	517.1	501.0	492.9	487.9	493.9	492.9
45°	3969.6	2582.4	656.9	540.2	517.1	489.9	474.8	466.8	466.8	475.8	478.8
47.5°	4393.1	2755.4	623.7	526.1	501.0	468.8	453.7	447.7	449.7	464.8	465.8
50°	4910.2	3056.2	617.7	519.1	492.9	453.7	436.6	430.6	435.6	451.7	453.7
52.5°	5480.6	3443.5	646.8	520.1	485.9	444.6	422.5	413.5	418.5	431.6	435.6
55°	6156.6	3928.4	722.3	524.1	475.8	439.6	412.5	392.3	398.4	407.4	408.4
57.5°	6846.7	4540.0	855.1	525.1	467.8	430.6	395.4	369.2	369.2	375.2	378.2
60°	7689.7	5206.0	1030.1	526.1	468.8	417.5	372.2	343.0	339.0	342.0	343.0
62.5°	8526.7	5763.3	1059.3	523.1	478.8	404.4	347.1	316.9	309.8	308.8	306.8
65°	8895.9	5659.7	868.2	509.0	489.9	396.4	326.9	291.7	279.7	275.6	275.6
67.5°	8294.3	4787.5	652.9	489.9	482.9	388.3	307.8	270.6	256.5	248.5	248.5
69°	7729.0	4258.3	586.5	476.8	464.8	375.2	295.8	259.5	242.4	233.4	230.4
70°	7292.4	3894.2	558.3	465.8	447.7	360.1	286.7	251.5	232.4	222.3	220.3
72.5°	5819.6	3055.2	488.9	423.5	381.3	302.8	254.5	226.3	208.2	197.2	194.2
75°	3353.9	1655.8	405.4	368.2	306.8	235.4	215.3	197.2	183.1	173.0	170.0
77.5°	1032.1	639.8	293.7	290.7	225.3	182.1	172.0	165.0	154.9	143.9	141.8
80°	434.6	325.9	199.2	196.2	149.9	126.8	123.7	122.7	118.7	109.7	106.6
82.5°	238.4	184.1	138.8	120.7	90.5	73.4	76.5	77.5	74.4	65.4	59.4
85°	116.7	100.6	67.4	54.3	41.2	26.2	25.1	30.2	28.2	20.1	22.1
87.5°	23.1	28.2	18.1	8.0	4.0	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)