

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: P458897

Luminaire Tested: **GALN-SA4B-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458897  
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-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 20931 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

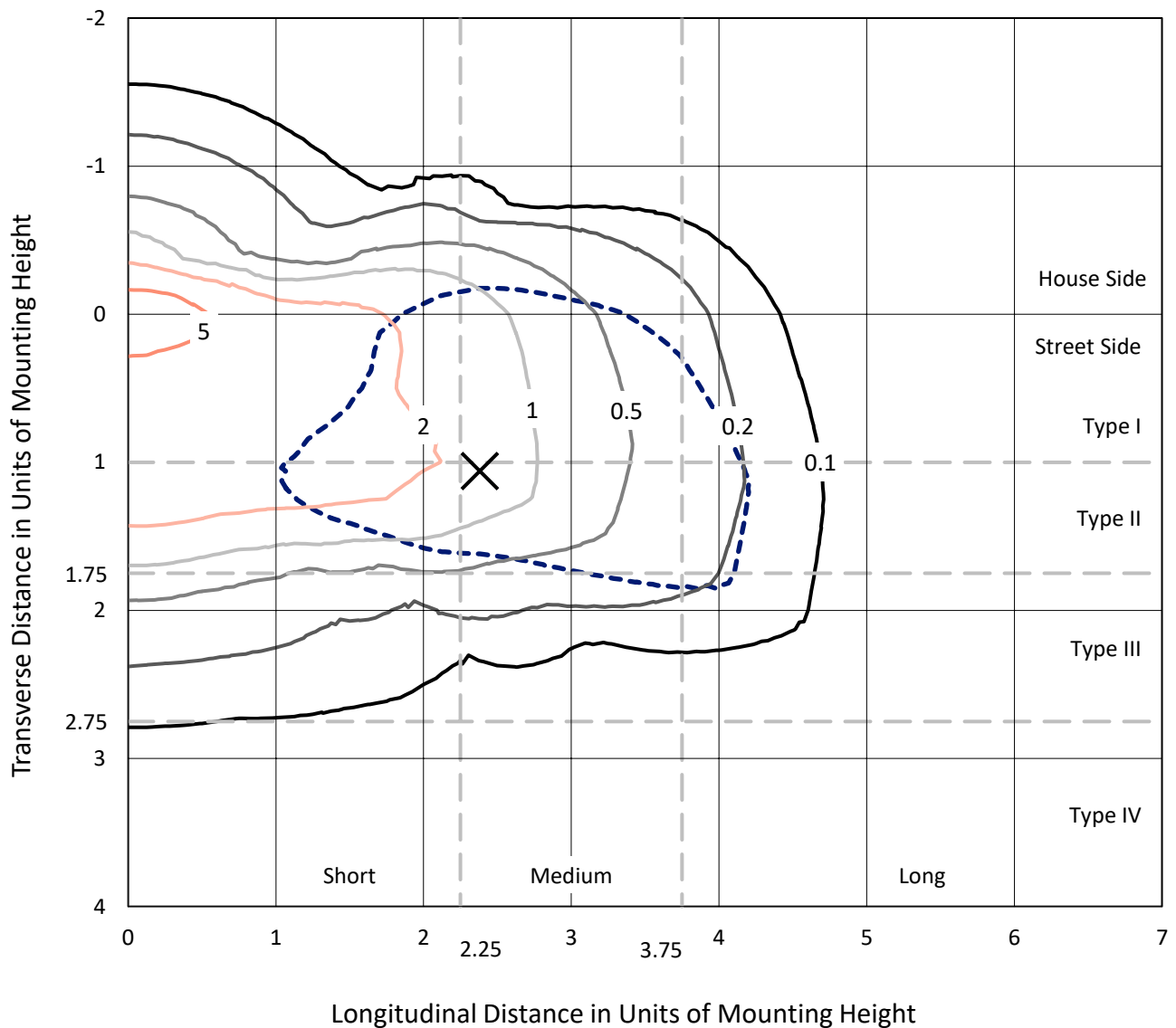
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

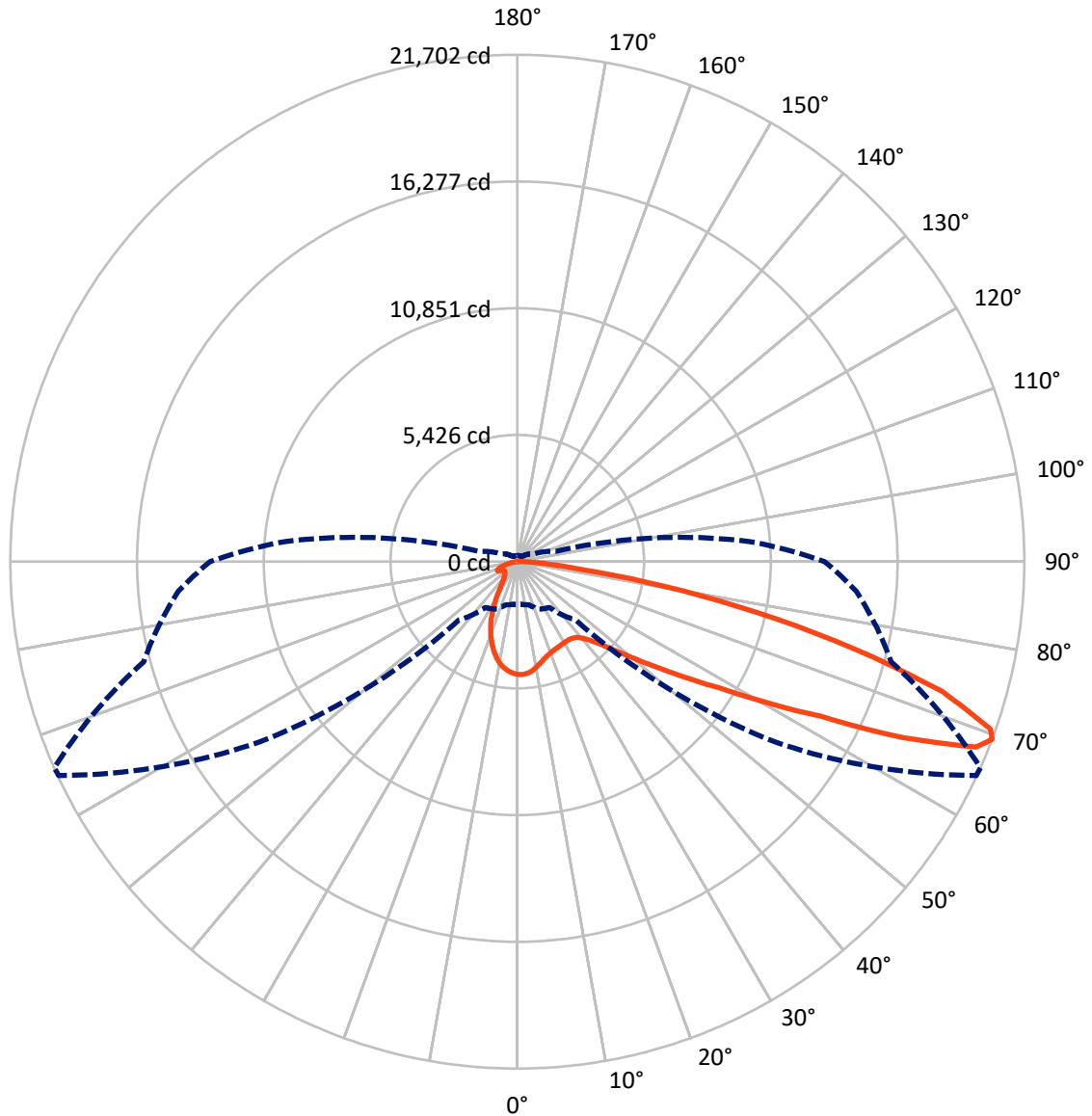
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
<b>House Side</b>	Lumens	3936.3	0.0	3936.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16994.7	0.0	16994.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	20931.0	0.0	20931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.7	2.0
10°-20°	995.6	4.8
20°-30°	1355.4	6.5
30°-40°	1821.3	8.7
40°-50°	2719.5	13.0
50°-60°	4325.9	20.7
60°-70°	5320.6	25.4
70°-80°	3461.8	16.5
80°-90°	511.2	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°	20931.0	100.0
0°-180°	20931.0	100.0

**Coefficient of Utilization**



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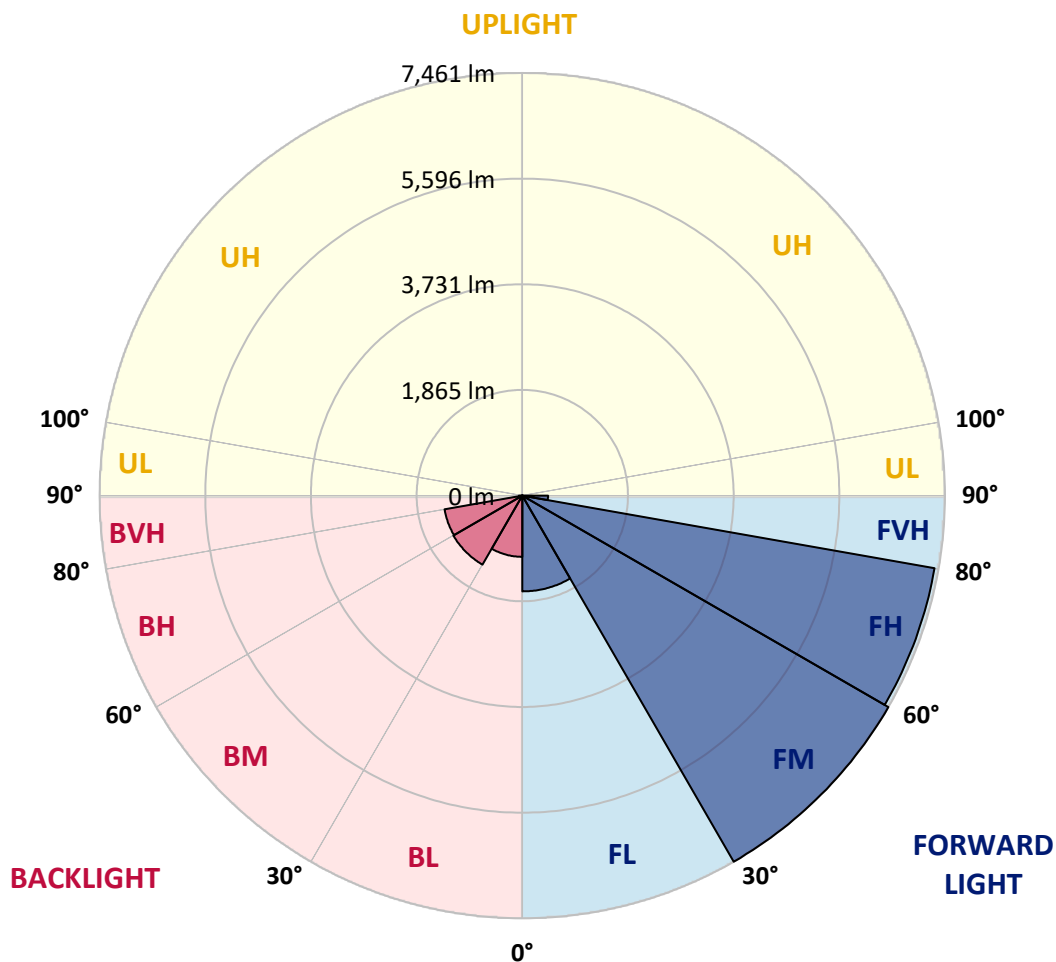
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.2	8.1			
FM	(30°-60°)	7461.3	35.6			
FH	(60°-80°)	7388.8	35.3			G3/7500
FVH	(80°-90°)	454.5	2.2			G3/500
BL	(0°-30°)	1080.5	5.2	B3/2500		
BM	(30°-60°)	1405.4	6.7	B2/2500		
BH	(60°-80°)	1393.6	6.7	B3/2500		G3/2500
BVH	(80°-90°)	56.7	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5
2.5°	4664.3	4682.9	4703.7	4726.9	4771.0	4795.3	4812.7	4832.4	4834.7	4845.1	4837.0
5°	4320.1	4342.1	4373.4	4417.4	4483.5	4586.7	4693.3	4780.2	4790.7	4839.3	4853.3
7.5°	4032.6	4045.3	4070.8	4141.6	4235.4	4350.2	4505.5	4681.7	4707.2	4823.1	4863.7
10°	3798.5	3811.2	3841.3	3914.4	4007.1	4150.8	4321.2	4553.0	4573.9	4773.3	4866.0
12.5°	3623.4	3635.0	3667.5	3739.3	3846.0	3980.4	4168.2	4413.9	4444.1	4707.2	4844.0
15°	3490.1	3512.1	3538.8	3597.9	3710.4	3840.2	4022.2	4286.4	4310.8	4637.7	4828.9
17.5°	3433.3	3443.8	3462.3	3516.8	3599.1	3726.6	3909.7	4186.8	4215.7	4589.0	4825.4
20°	3435.6	3446.1	3449.6	3479.7	3538.8	3648.9	3829.7	4107.9	4142.7	4546.1	4831.2
22.5°	3514.5	3515.6	3502.9	3492.4	3515.6	3607.2	3773.0	4048.8	4089.4	4527.5	4835.9
25°	3636.2	3657.0	3638.5	3589.8	3546.9	3591.0	3750.9	4016.4	4054.6	4500.9	4830.1
27.5°	3833.2	3836.7	3821.6	3755.6	3644.3	3611.8	3741.7	3992.0	4024.5	4481.2	4801.1
30°	4097.5	4087.1	4073.2	4000.1	3825.1	3691.8	3761.4	3970.0	4003.6	4452.2	4766.3
32.5°	4365.3	4397.7	4385.0	4299.2	4072.0	3847.1	3825.1	3967.7	3995.5	4430.2	4728.1
35°	4649.2	4664.3	4724.6	4680.5	4447.6	4098.7	3944.5	4003.6	4025.6	4431.3	4701.4
37.5°	4871.8	4912.4	5053.8	5092.0	4873.0	4431.3	4138.1	4105.6	4114.9	4488.1	4711.8
40°	5140.7	5210.3	5392.2	5548.7	5405.0	4863.7	4467.3	4294.6	4306.1	4624.9	4780.2
42.5°	5481.5	5530.2	5774.8	5986.9	5963.7	5435.1	4866.0	4604.0	4609.8	4897.3	4971.5
45°	5880.2	5949.8	6224.5	6543.3	6597.7	6081.9	5442.1	5072.3	5068.9	5320.4	5328.5
47.5°	6390.3	6433.1	6705.5	7053.3	7273.5	6894.5	6141.0	5744.6	5707.5	5937.0	5871.0
50°	6859.7	6926.9	7133.3	7513.4	8061.7	7846.1	7060.2	6616.3	6529.3	6743.8	6632.5
52.5°	7056.8	7127.5	7301.3	7773.1	8737.5	9077.1	8227.5	7656.0	7511.1	7675.7	7635.2
55°	6714.8	6806.4	6968.7	7542.4	9034.2	10497.0	9801.6	8858.0	8752.5	8681.8	8693.4
57.5°	5795.6	5882.6	6101.6	6734.5	8679.5	11527.5	12049.1	10403.1	10177.1	9851.4	9907.0
60°	4411.6	4466.1	4579.7	5281.0	7628.2	11795.3	14601.5	12356.3	12212.5	11016.3	11055.7
62.5°	3133.1	3194.5	3273.4	3623.4	5584.7	11040.7	16599.8	15083.7	14570.2	12223.0	12184.7
65°	2544.3	2502.5	2597.6	2761.0	3276.8	8556.7	17049.6	18869.4	18162.3	13812.1	13281.2
67.5°	2092.2	2048.2	2142.1	2433.0	2492.1	4966.8	15429.1	21326.7	21185.3	15540.4	14395.2
69°	1852.3	1829.1	1911.4	2242.9	2392.4	3527.2	13441.2	21668.7	21702.3	16559.3	14566.7
70°	1669.1	1678.4	1758.4	2146.7	2347.2	2908.2	11488.1	21196.9	21482.1	17068.1	14381.3
72.5°	1228.7	1248.4	1359.7	1778.1	2304.3	2467.8	6836.5	18514.7	19018.9	17098.2	13156.1
75°	858.9	849.6	948.2	1338.8	2176.8	2445.8	4015.2	14318.7	14890.1	14778.8	11054.6
77.5°	562.2	577.2	656.1	945.8	1831.4	2427.2	2617.3	10158.6	10529.5	9883.9	6538.6
80°	396.4	395.3	439.3	645.6	1358.5	2332.2	2143.2	6403.0	6309.1	3884.2	1939.2
82.5°	227.2	243.4	294.4	454.4	908.8	2052.8	1971.7	3062.4	2795.8	1107.0	654.9
85°	126.3	132.1	175.0	274.7	530.9	1546.3	1721.3	1393.3	1314.4	462.5	281.7
87.5°	40.6	44.0	73.0	139.1	241.1	730.2	974.8	643.3	593.5	166.9	113.6
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°	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5	4833.5
2.5°	4840.5	4854.4	4817.3	4781.4	4748.9	4703.7	4663.2	4629.5	4606.4	4602.9	4591.3
5°	4856.7	4857.9	4787.2	4692.1	4599.4	4497.4	4391.9	4316.6	4245.9	4206.5	4186.8
7.5°	4868.3	4857.9	4730.4	4576.2	4397.7	4212.3	4026.8	3878.4	3763.7	3718.5	3735.9
10°	4863.7	4831.2	4644.6	4397.7	4138.1	3861.0	3594.4	3385.8	3194.5	3096.0	3098.3
12.5°	4838.2	4784.9	4517.1	4197.2	3815.8	3444.9	3036.9	2755.2	2533.8	2402.9	2362.3
15°	4816.2	4723.4	4367.6	3924.8	3450.7	2921.0	2423.7	2076.0	1890.5	1787.4	1786.2
17.5°	4793.0	4664.3	4204.1	3636.2	3031.1	2349.5	1827.9	1562.5	1475.6	1486.0	1468.6
20°	4768.6	4594.8	4033.8	3315.1	2519.9	1752.6	1368.9	1261.1	1285.5	1333.0	1339.9
22.5°	4740.8	4520.6	3850.6	2961.6	1982.1	1319.1	1110.4	1094.2	1156.8	1231.0	1241.4
25°	4697.9	4427.9	3619.9	2591.8	1528.9	1062.9	972.5	984.1	1045.5	1108.1	1115.1
27.5°	4637.7	4313.1	3387.0	2130.5	1148.7	912.2	889.0	904.1	934.3	972.5	981.8
30°	4556.5	4183.3	3119.2	1731.7	920.3	836.9	827.6	835.7	853.1	869.3	874.0
32.5°	4475.4	4058.1	2849.1	1326.0	820.7	787.0	777.8	777.8	777.8	780.1	781.2
35°	4400.0	3939.9	2559.3	1032.8	768.5	747.6	734.9	721.0	718.7	710.5	710.5
37.5°	4358.3	3832.1	2251.0	864.7	730.2	715.2	697.8	674.6	661.9	663.0	660.7
40°	4366.4	3761.4	1970.5	769.7	699.0	682.7	656.1	629.4	621.3	621.3	619.0
42.5°	4458.0	3738.2	1701.6	719.8	668.8	650.3	616.7	592.3	587.7	586.5	588.8
45°	4669.0	3795.0	1460.5	687.4	643.3	615.5	581.9	559.9	555.2	555.2	554.1
47.5°	5080.4	3979.3	1287.8	666.5	624.8	588.8	554.1	532.0	523.9	521.6	521.6
50°	5720.3	4379.2	1159.1	648.0	601.6	564.5	528.6	503.1	490.3	489.2	488.0
52.5°	6609.3	5002.8	1109.3	634.0	576.1	539.0	499.6	475.2	459.0	455.5	453.2
55°	7649.1	5873.3	1177.7	623.6	549.4	510.0	469.4	443.9	428.9	421.9	420.8
57.5°	8853.4	6918.8	1437.3	609.7	525.1	478.7	439.3	413.8	397.6	389.5	387.1
60°	9934.9	7993.3	1890.5	601.6	504.2	445.1	404.5	381.4	366.3	358.2	357.0
62.5°	11123.0	9018.0	2431.8	623.6	494.9	412.6	372.1	351.2	338.5	330.4	330.4
65°	12392.2	10043.8	2790.0	697.8	508.9	387.1	337.3	319.9	308.3	302.5	301.4
67.5°	13247.6	10398.5	2298.5	774.3	543.6	359.3	303.7	289.8	282.8	277.0	277.0
69°	13154.9	9949.9	1695.8	794.0	554.1	345.4	285.1	274.7	265.4	263.1	260.8
70°	12861.6	9438.8	1421.1	781.2	545.9	332.7	273.6	260.8	252.7	250.4	249.2
72.5°	11455.6	8185.7	1058.3	679.2	464.8	288.6	242.3	230.7	223.7	220.2	220.2
75°	9517.6	6690.5	826.5	540.2	364.0	243.4	207.5	198.2	192.4	190.1	188.9
77.5°	5334.3	3735.9	593.5	423.1	275.9	197.1	173.9	165.8	160.0	157.6	157.6
80°	1486.0	1067.6	348.9	279.3	187.8	149.5	137.9	132.1	124.0	118.2	121.7
82.5°	559.9	462.5	199.4	168.1	119.4	99.7	96.2	91.6	88.1	80.0	80.0
85°	272.4	224.9	127.5	89.3	66.1	52.2	49.8	47.5	45.2	39.4	40.6
87.5°	93.9	99.7	55.6	32.5	19.7	12.8	10.4	5.8	5.8	5.8	5.8
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)