

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: P458899

Luminaire Tested: **GALN-SA4B-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458899  
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-SA4B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA 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: 20784 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

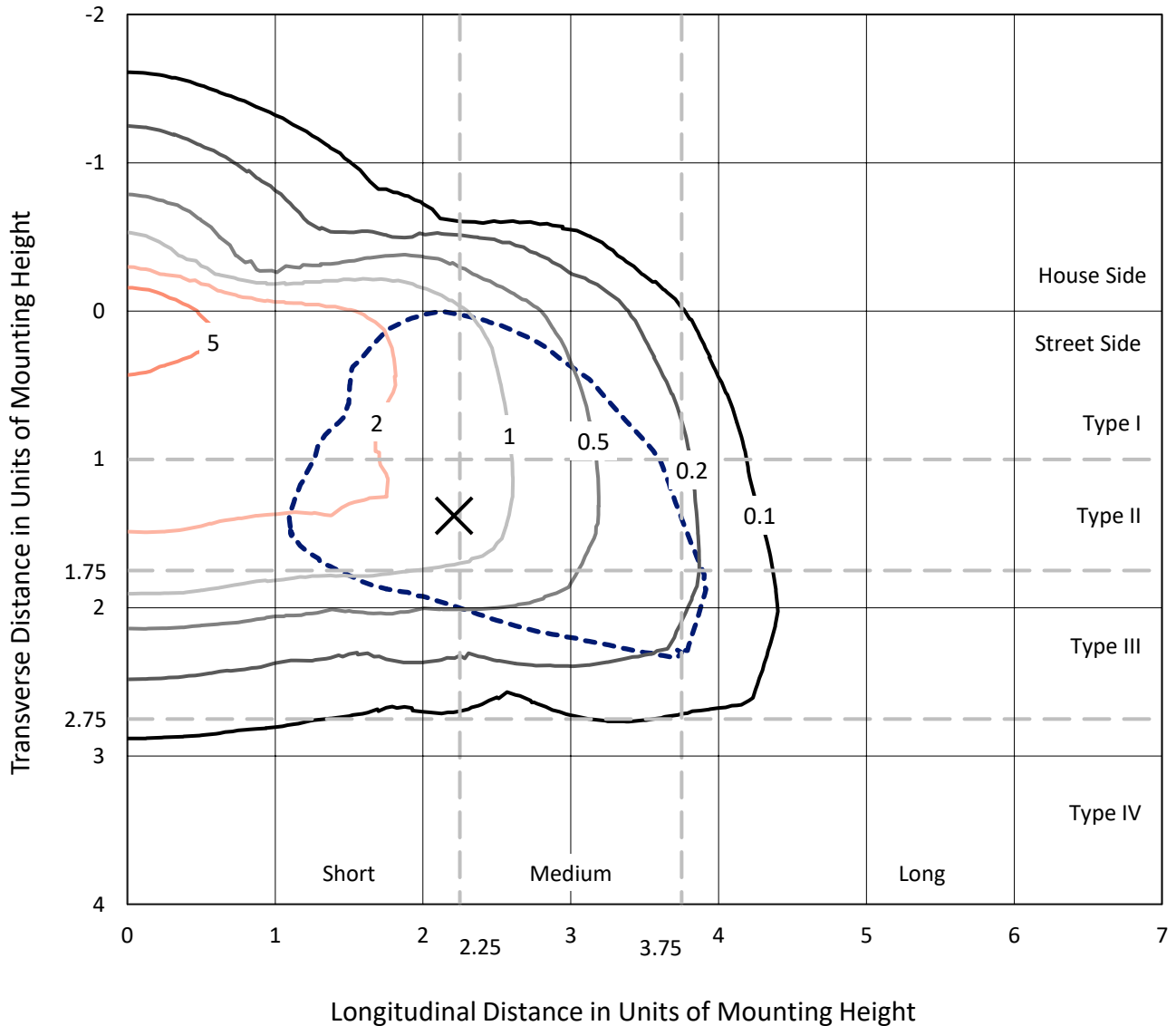
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

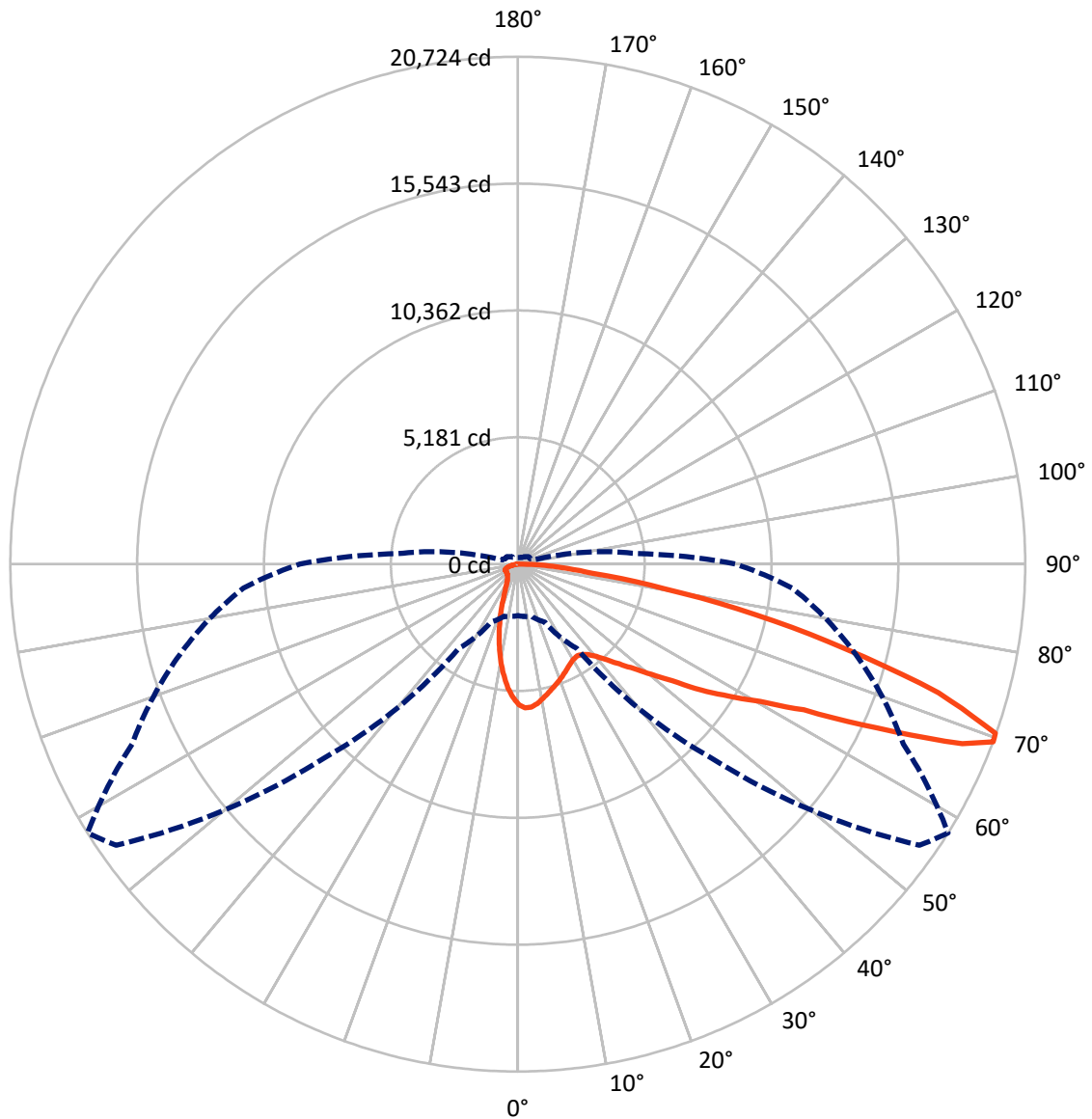
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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
<b>House Side</b>	Lumens	3045.9	0.0	3045.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	17738.1	0.0	17738.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	20784.0	0.0	20784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.8	2.3
10°-20°	1071.0	5.2
20°-30°	1383.8	6.7
30°-40°	1797.3	8.6
40°-50°	2613.0	12.6
50°-60°	4169.5	20.1
60°-70°	5569.9	26.8
70°-80°	3210.8	15.4
80°-90°	480.9	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°	20784.0	100.0
0°-180°	20784.0	100.0

**Coefficient of Utilization**



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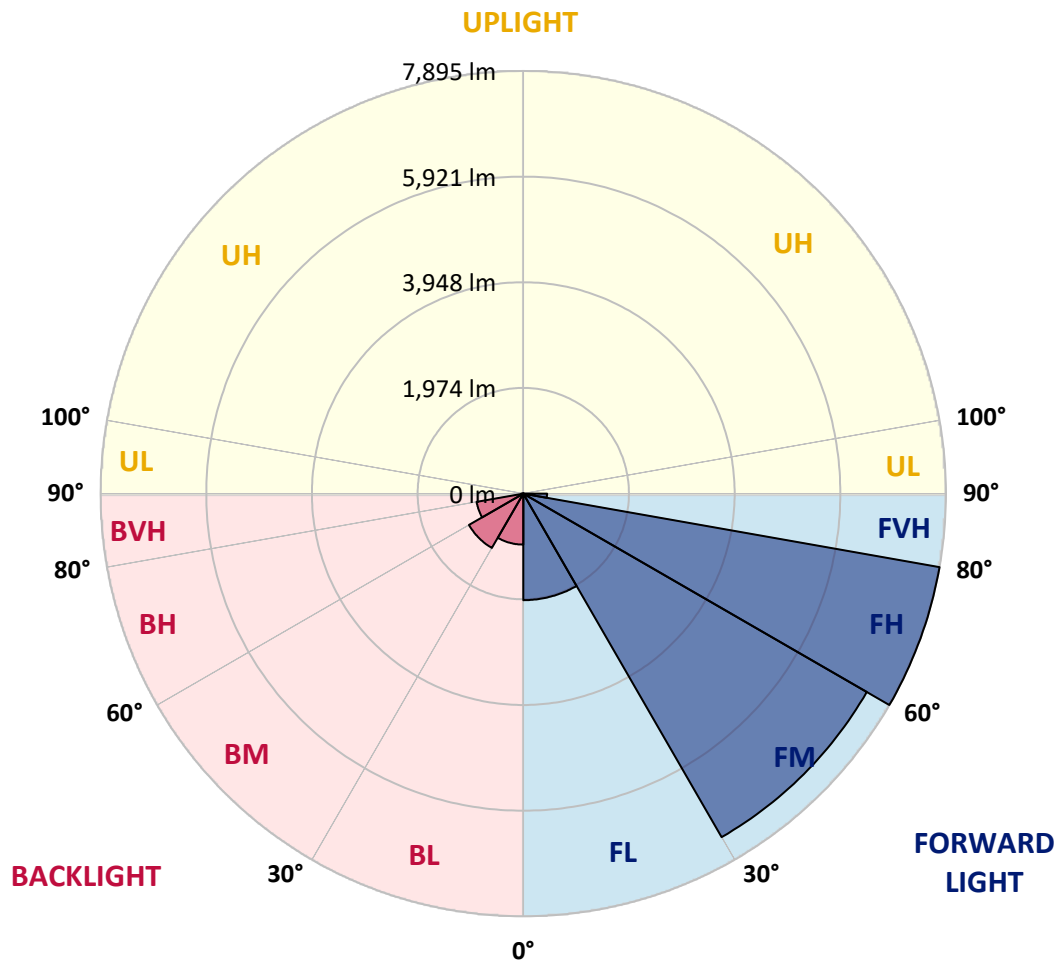
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1990.6	9.6			
FM	(30°-60°)	7408.4	35.6			
FH	(60°-80°)	7895.0	38.0			G4/12000
FVH	(80°-90°)	444.1	2.1			G3/500
BL	(0°-30°)	952.0	4.6	B2/1000		
BM	(30°-60°)	1171.3	5.6	B2/2500		
BH	(60°-80°)	885.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.8	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°	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5
2.5°	5956.8	5973.0	5968.4	5962.6	5953.3	5927.8	5886.1	5879.1	5852.4	5795.6	5724.9
5°	5865.2	5879.1	5880.3	5888.4	5900.0	5895.3	5865.2	5861.7	5822.3	5745.8	5627.6
7.5°	5551.1	5569.6	5610.2	5655.4	5696.0	5734.2	5743.5	5749.3	5724.9	5636.8	5479.2
10°	5197.5	5216.1	5234.6	5301.9	5401.5	5496.6	5575.4	5585.8	5591.6	5510.5	5318.1
12.5°	4805.7	4844.0	4883.4	4983.1	5116.4	5265.9	5405.0	5427.0	5466.4	5405.0	5179.0
15°	4473.1	4512.5	4569.3	4658.5	4819.7	5035.3	5231.1	5267.1	5344.7	5313.4	5049.2
17.5°	4242.4	4256.3	4295.7	4397.7	4571.6	4798.8	5060.8	5132.6	5256.6	5248.5	4937.9
20°	4060.4	4077.8	4102.2	4164.7	4345.6	4585.5	4902.0	4994.7	5162.8	5190.6	4827.8
22.5°	3983.9	3996.7	3993.2	4026.8	4149.7	4390.8	4740.8	4851.0	5079.3	5151.2	4725.8
25°	3988.6	4000.2	3982.8	3974.7	4047.7	4219.2	4572.8	4713.0	5012.1	5124.5	4633.0
27.5°	4066.2	4074.3	4041.9	4009.4	4015.2	4112.6	4433.7	4589.0	4955.3	5136.1	4555.4
30°	4170.5	4185.6	4164.7	4125.3	4082.4	4087.1	4344.4	4497.4	4928.6	5176.7	4518.3
32.5°	4305.0	4318.9	4309.6	4278.3	4222.7	4161.3	4322.4	4463.8	4930.9	5259.0	4510.2
35°	4446.4	4474.2	4489.3	4487.0	4441.8	4335.1	4409.3	4526.4	4986.6	5396.9	4557.7
37.5°	4606.4	4629.6	4694.5	4736.2	4694.5	4570.4	4605.2	4686.4	5109.4	5596.3	4662.0
40°	4761.7	4796.5	4891.5	5021.3	5005.1	4896.2	4904.3	4957.6	5326.2	5893.0	4866.0
42.5°	4924.0	4965.7	5131.5	5323.9	5362.1	5277.5	5299.5	5347.1	5634.5	6304.5	5216.1
45°	5132.6	5182.5	5386.5	5626.4	5777.1	5724.9	5787.5	5810.7	6047.2	6840.0	5677.4
47.5°	5401.5	5459.5	5711.0	6010.1	6223.4	6270.9	6379.8	6365.9	6558.3	7474.1	6275.5
50°	5854.8	5887.2	6124.8	6429.7	6722.9	6937.4	7055.6	7077.6	7192.4	8090.7	6944.3
52.5°	6393.8	6422.7	6594.3	6860.9	7228.3	7682.7	7974.8	7902.9	7930.8	8841.8	7726.7
55°	7000.0	7048.7	7157.6	7335.0	7811.4	8480.2	9066.7	9084.1	8775.8	9560.5	8476.7
57.5°	7469.4	7551.7	7738.3	7991.0	8594.9	9366.9	10155.1	10166.7	9772.6	10327.8	9304.3
60°	7233.0	7330.3	7756.9	8372.4	9623.1	10914.4	11455.7	11389.6	10742.8	11201.8	10313.9
62.5°	6212.9	6230.3	6850.4	7812.5	9939.5	12984.6	13391.4	13112.1	12037.5	12309.9	11339.8
65°	4021.0	4134.6	4626.1	5974.1	8899.8	14133.3	16783.0	16137.4	13852.7	13567.6	12198.7
67.5°	2538.5	2509.5	2713.5	3411.3	6121.4	13121.3	19677.4	19575.4	16226.6	14361.6	11993.5
69°	2105.0	2137.4	2207.0	2615.0	4212.3	11203.0	20019.3	20724.1	17377.7	14299.0	11248.2
70°	1909.1	1924.2	1997.2	2318.3	3250.2	9383.1	19458.3	20692.8	17829.7	14037.0	10708.0
72.5°	1515.0	1513.8	1639.0	1928.8	2429.5	5356.3	15977.4	17965.3	17324.3	12817.6	8847.6
75°	1151.0	1169.6	1307.5	1632.1	2238.3	2926.8	11149.7	13835.4	13836.5	10123.8	5520.9
77.5°	829.9	841.5	1002.6	1370.1	2108.5	2372.7	7426.5	9923.3	9328.7	4638.8	1735.2
80°	543.6	550.6	673.5	1084.9	1901.0	2238.3	4403.5	6073.8	4400.1	1231.0	573.8
82.5°	297.9	332.7	411.5	702.4	1525.4	2067.9	2676.4	3074.0	1650.6	548.3	299.1
85°	149.5	158.8	231.8	410.3	996.9	1710.9	1863.9	1763.0	852.0	272.4	155.3
87.5°	44.0	55.6	96.2	158.8	404.5	891.4	1037.4	930.8	328.0	98.5	32.5
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°	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5	5743.5
2.5°	5696.0	5675.1	5582.4	5498.9	5422.4	5341.3	5272.9	5212.6	5218.4	5219.6	5158.1
5°	5566.1	5518.6	5342.4	5177.8	5038.7	4862.5	4711.9	4614.5	4565.8	4500.9	4524.1
7.5°	5389.9	5298.4	5053.8	4780.2	4524.1	4295.7	4047.7	3877.3	3768.3	3662.8	3676.8
10°	5208.0	5060.8	4704.9	4343.3	4011.7	3646.6	3330.2	3058.9	2857.3	2781.9	2732.1
12.5°	5021.3	4827.8	4375.7	3894.7	3436.8	2999.8	2551.2	2260.3	2037.7	1919.5	1934.6
15°	4851.0	4615.6	4032.6	3446.1	2851.5	2331.0	1883.6	1606.6	1451.2	1418.8	1437.3
17.5°	4693.3	4385.0	3711.5	3010.3	2315.9	1748.0	1415.3	1258.8	1196.2	1178.8	1177.7
20°	4531.0	4189.1	3351.0	2544.3	1804.8	1355.0	1161.4	1088.4	1076.8	1083.8	1084.9
22.5°	4366.4	3946.8	2980.1	2081.8	1437.3	1108.1	1015.4	995.7	1005.0	1021.2	1023.5
25°	4214.6	3733.6	2623.1	1676.1	1147.5	973.7	928.5	928.5	949.3	973.7	974.8
27.5°	4089.4	3527.2	2267.3	1330.7	960.9	876.3	861.2	869.3	898.3	916.9	918.0
30°	3986.2	3334.8	1931.1	1066.4	845.0	798.6	795.2	809.1	829.9	847.3	848.5
32.5°	3908.6	3165.6	1617.0	896.0	765.0	739.5	738.4	748.8	760.4	765.0	769.7
35°	3878.4	3025.3	1329.5	788.2	711.7	695.5	695.5	694.3	699.0	701.3	703.6
37.5°	3902.8	2917.5	1107.0	718.7	672.3	660.7	653.7	646.8	644.5	644.5	645.6
40°	4005.9	2860.7	941.2	673.5	644.5	627.1	614.3	606.2	598.1	600.4	602.7
42.5°	4225.0	2871.2	828.8	643.3	620.1	595.8	577.2	568.0	562.2	569.1	568.0
45°	4573.9	2975.5	756.9	622.5	595.8	564.5	547.1	537.8	537.8	548.3	551.7
47.5°	5061.9	3174.9	718.7	606.2	577.2	540.2	522.8	515.8	518.1	535.5	536.7
50°	5657.7	3521.4	711.7	598.1	568.0	522.8	503.1	496.1	501.9	520.4	522.8
52.5°	6314.9	3967.7	745.3	599.3	559.9	512.3	486.8	476.4	482.2	497.3	501.9
55°	7093.9	4526.4	832.3	603.9	548.3	506.5	475.2	452.1	459.0	469.4	470.6
57.5°	7889.0	5231.1	985.3	605.1	539.0	496.1	455.5	425.4	425.4	432.4	435.8
60°	8860.4	5998.5	1186.9	606.2	540.2	481.0	428.9	395.3	390.6	394.1	395.3
62.5°	9824.8	6640.6	1220.6	602.7	551.7	466.0	399.9	365.1	357.0	355.9	353.5
65°	10250.2	6521.3	1000.3	586.5	564.5	456.7	376.7	336.1	322.2	317.6	317.6
67.5°	9557.0	5516.3	752.3	564.5	556.4	447.4	354.7	311.8	295.6	286.3	286.3
69°	8905.6	4906.6	675.8	549.4	535.5	432.4	340.8	299.1	279.3	268.9	265.4
70°	8402.5	4487.0	643.3	536.7	515.8	415.0	330.4	289.8	267.8	256.2	253.8
72.5°	6705.6	3520.3	563.3	488.0	439.3	348.9	293.3	260.8	239.9	227.2	223.7
75°	3864.5	1907.9	467.1	424.2	353.5	271.2	248.1	227.2	211.0	199.4	195.9
77.5°	1189.3	737.2	338.5	335.0	259.6	209.8	198.2	190.1	178.5	165.8	163.4
80°	500.7	375.6	229.5	226.0	172.7	146.1	142.6	141.4	136.8	126.3	122.9
82.5°	274.7	212.1	160.0	139.1	104.3	84.6	88.1	89.3	85.8	75.3	68.4
85°	134.5	115.9	77.7	62.6	47.5	30.1	29.0	34.8	32.5	23.2	25.5
87.5°	26.7	32.5	20.9	9.3	4.6	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)