

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: P458841

Luminaire Tested: **GALN-SA3D-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458841  
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-SA3D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA 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: 21323 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

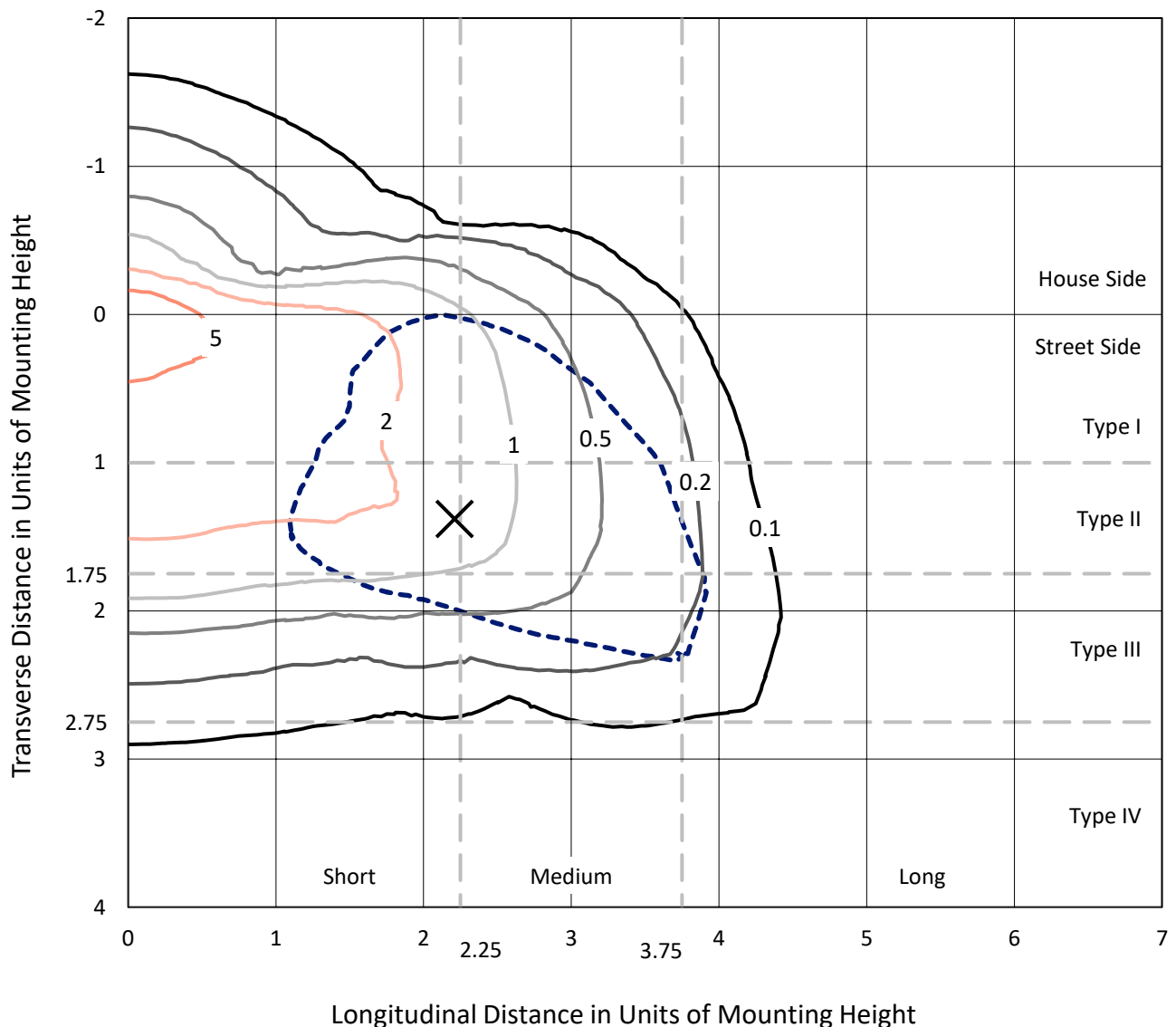
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

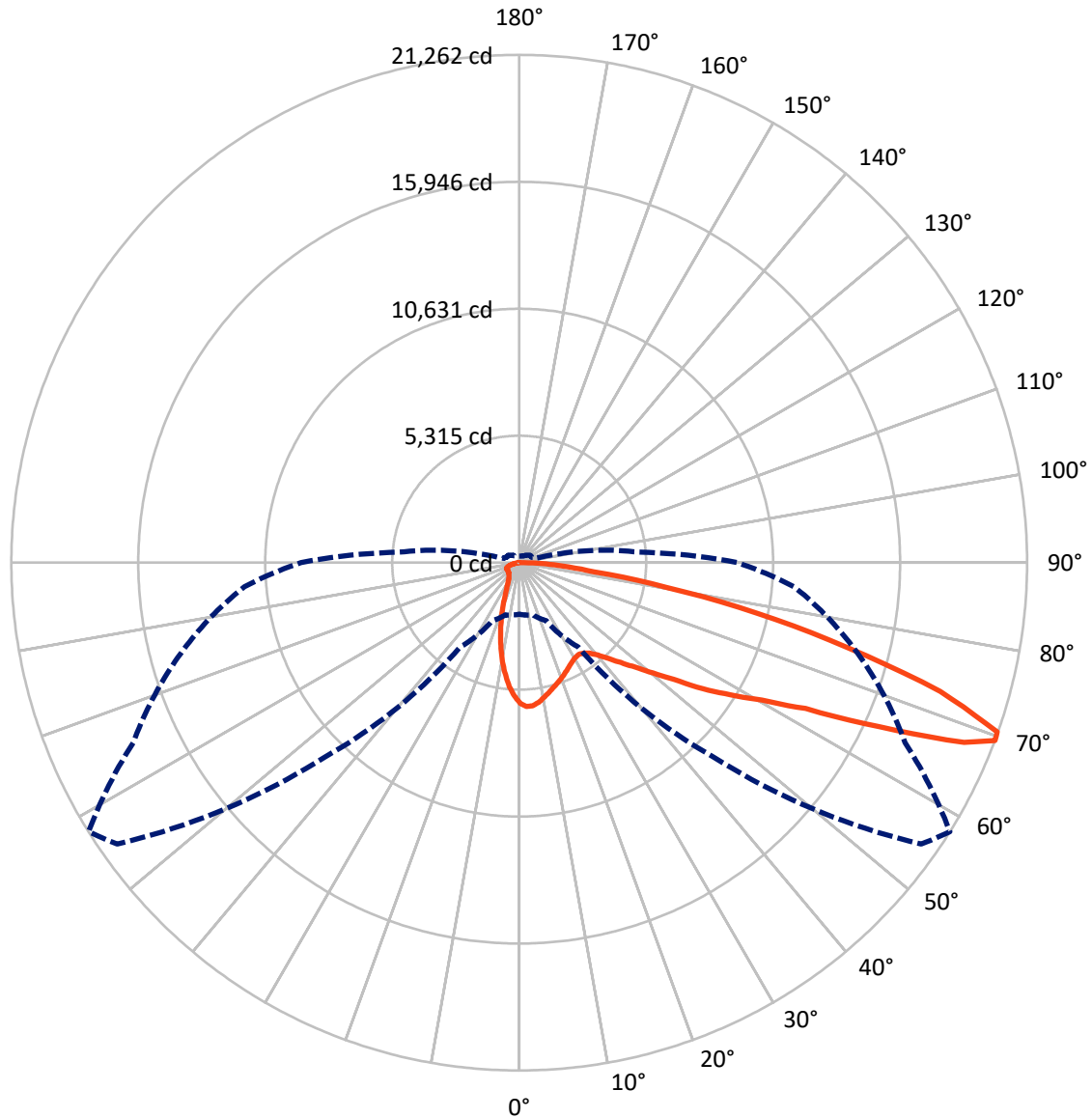
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	3124.9	0.0	3124.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	18198.1	0.0	18198.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	21323.0	0.0	21323.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.4	2.3
10°-20°	1098.8	5.2
20°-30°	1419.7	6.7
30°-40°	1843.9	8.6
40°-50°	2680.8	12.6
50°-60°	4277.6	20.1
60°-70°	5714.4	26.8
70°-80°	3294.1	15.4
80°-90°	493.4	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°	21323.0	100.0
0°-180°	21323.0	100.0

**Coefficient of Utilization**



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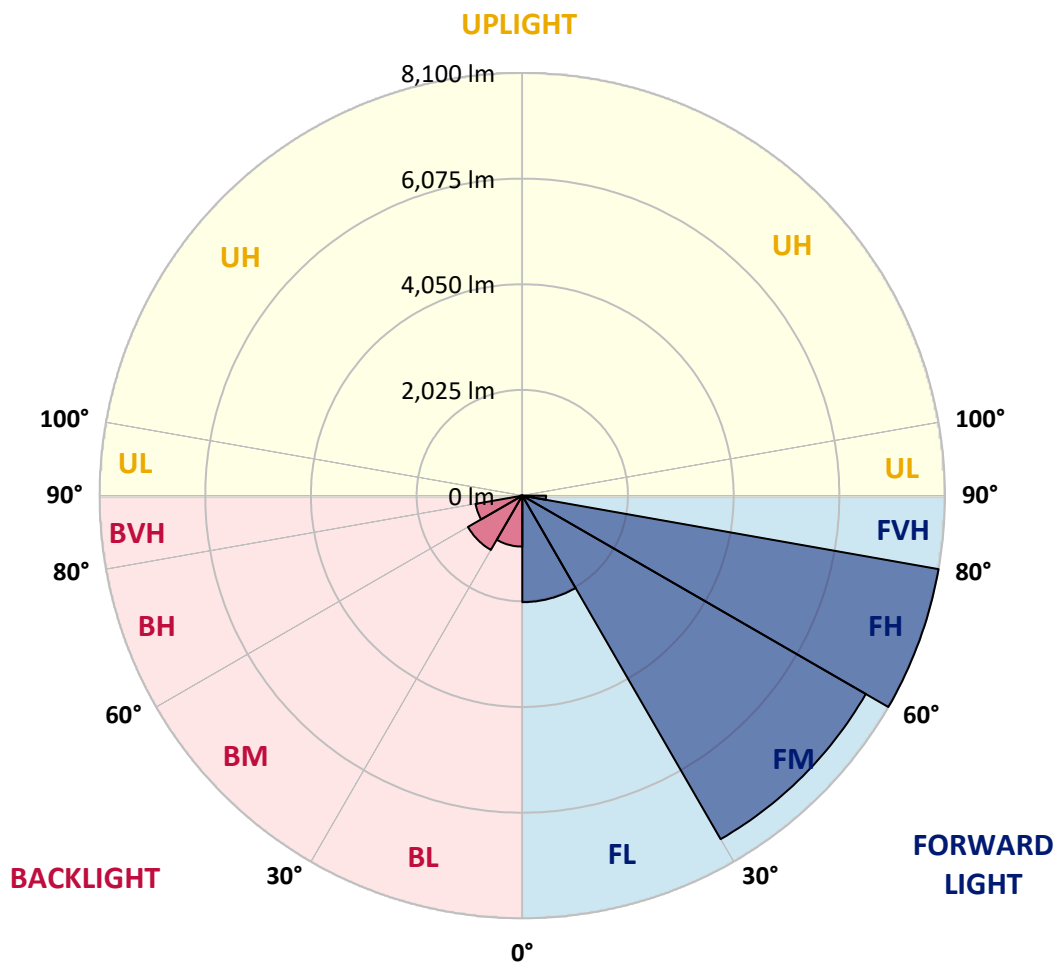
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.2	9.6			
FM	(30°-60°)	7600.5	35.6			
FH	(60°-80°)	8099.8	38.0			G4/12000
FVH	(80°-90°)	455.6	2.1			G3/500
BL	(0°-30°)	976.7	4.6	B2/1000		
BM	(30°-60°)	1201.7	5.6	B2/2500		
BH	(60°-80°)	908.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.8	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°	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4
2.5°	6111.2	6127.9	6123.1	6117.2	6107.7	6081.5	6038.7	6031.6	6004.2	5945.9	5873.4
5°	6017.3	6031.6	6032.8	6041.1	6053.0	6048.2	6017.3	6013.7	5973.3	5894.8	5773.5
7.5°	5695.0	5714.1	5755.7	5802.1	5843.7	5882.9	5892.4	5898.4	5873.4	5783.0	5621.3
10°	5332.3	5351.3	5370.4	5439.3	5541.6	5639.1	5720.0	5730.7	5736.6	5653.4	5456.0
12.5°	4930.4	4969.6	5010.1	5112.3	5249.1	5402.5	5545.2	5567.8	5608.2	5545.2	5313.3
15°	4589.1	4629.5	4687.8	4779.3	4944.6	5165.8	5366.8	5403.7	5483.3	5451.2	5180.1
17.5°	4352.4	4366.7	4407.1	4511.8	4690.2	4923.2	5192.0	5265.7	5393.0	5384.6	5065.9
20°	4165.7	4183.6	4208.5	4272.8	4458.3	4704.4	5029.1	5124.2	5296.6	5325.2	4953.0
22.5°	4087.2	4100.3	4096.8	4131.2	4257.3	4504.6	4863.8	4976.8	5211.0	5284.8	4848.3
25°	4092.0	4103.9	4086.1	4077.7	4152.6	4328.6	4691.3	4835.2	5142.1	5257.4	4753.2
27.5°	4171.7	4180.0	4146.7	4113.4	4119.3	4219.2	4548.6	4708.0	5083.8	5269.3	4673.5
30°	4278.7	4294.2	4272.8	4232.3	4188.3	4193.1	4457.1	4614.1	5056.4	5310.9	4635.5
32.5°	4416.6	4430.9	4421.4	4389.3	4332.2	4269.2	4434.5	4579.6	5058.8	5395.3	4627.1
35°	4561.7	4590.3	4605.7	4603.3	4557.0	4447.6	4523.7	4643.8	5115.9	5536.9	4675.9
37.5°	4725.8	4749.6	4816.2	4859.0	4816.2	4689.0	4724.6	4807.9	5241.9	5741.4	4782.9
40°	4885.2	4920.9	5018.4	5151.6	5134.9	5023.1	5031.5	5086.2	5464.3	6045.8	4992.2
42.5°	5051.7	5094.5	5264.5	5461.9	5501.2	5414.4	5437.0	5485.7	5780.6	6468.0	5351.3
45°	5265.7	5316.9	5526.2	5772.3	5926.9	5873.4	5937.6	5961.4	6204.0	7017.4	5824.6
47.5°	5541.6	5601.1	5859.1	6165.9	6384.8	6433.5	6545.3	6531.0	6728.4	7667.9	6438.3
50°	6006.6	6039.9	6283.7	6596.4	6897.3	7117.3	7238.6	7261.2	7378.9	8300.5	7124.4
52.5°	6559.6	6589.3	6765.3	7038.8	7415.8	7881.9	8181.6	8107.9	8136.4	9071.1	7927.1
55°	7181.5	7231.5	7343.2	7525.2	8013.9	8700.1	9301.8	9319.7	9003.3	9808.4	8696.5
57.5°	7663.1	7747.6	7939.0	8198.3	8817.8	9609.8	10418.5	10430.4	10026.0	10595.7	9545.6
60°	7420.5	7520.4	7958.0	8589.5	9872.6	11197.4	11752.7	11685.0	11021.4	11492.3	10581.4
62.5°	6374.1	6391.9	7028.1	8015.1	10197.3	13321.3	13738.7	13452.1	12349.7	12629.2	11633.8
65°	4125.3	4241.8	4746.1	6129.1	9130.6	14499.8	17218.3	16555.9	14212.0	13919.5	12515.0
67.5°	2604.3	2574.6	2783.9	3499.8	6280.1	13461.6	20187.7	20083.0	16647.4	14734.0	12304.5
69°	2159.6	2192.9	2264.2	2682.8	4321.5	11493.5	20538.5	21261.5	17828.3	14669.8	11539.9
70°	1958.6	1974.1	2049.0	2378.4	3334.5	9626.5	19962.9	21229.4	18292.1	14401.1	10985.7
72.5°	1554.3	1553.1	1681.5	1978.8	2492.5	5495.2	16391.8	18431.2	17773.6	13150.0	9077.1
75°	1180.9	1199.9	1341.4	1674.4	2296.3	3002.7	11438.8	14194.2	14195.3	10386.4	5664.1
77.5°	851.5	863.4	1028.6	1405.6	2163.1	2434.3	7619.1	10180.6	9570.6	4759.1	1780.2
80°	557.7	564.9	690.9	1113.1	1950.3	2296.3	4517.7	6231.3	4514.2	1262.9	588.6
82.5°	305.6	341.3	422.2	720.6	1565.0	2121.5	2745.8	3153.7	1693.4	562.5	306.8
85°	153.4	162.9	237.8	421.0	1022.7	1755.2	1912.2	1808.8	874.1	279.5	159.4
87.5°	45.2	57.1	98.7	162.9	415.0	914.5	1064.3	954.9	336.5	101.1	33.3
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°	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4	5892.4
2.5°	5843.7	5822.3	5727.1	5641.5	5563.0	5479.8	5409.6	5347.8	5353.7	5354.9	5291.9
5°	5710.5	5661.7	5481.0	5312.1	5169.4	4988.6	4834.1	4734.2	4684.2	4617.6	4641.4
7.5°	5529.7	5435.8	5184.9	4904.2	4641.4	4407.1	4152.6	3977.8	3866.1	3757.8	3772.1
10°	5343.0	5192.0	4826.9	4455.9	4115.8	3741.2	3416.5	3138.3	2931.3	2854.1	2802.9
12.5°	5151.6	4953.0	4489.2	3995.7	3525.9	3077.6	2617.4	2318.9	2090.6	1969.3	1984.8
15°	4976.8	4735.3	4137.2	3535.5	2925.4	2391.5	1932.4	1648.2	1488.9	1455.6	1474.6
17.5°	4815.0	4498.7	3807.8	3088.3	2376.0	1793.3	1452.0	1291.5	1227.2	1209.4	1208.2
20°	4648.5	4297.7	3437.9	2610.3	1851.6	1390.2	1191.6	1116.6	1104.8	1111.9	1113.1
22.5°	4479.7	4049.2	3057.4	2135.8	1474.6	1136.9	1041.7	1021.5	1031.0	1047.7	1050.1
25°	4323.9	3830.4	2691.1	1719.6	1177.3	998.9	952.5	952.5	973.9	998.9	1000.1
27.5°	4195.5	3618.7	2326.1	1365.2	985.8	899.0	883.6	891.9	921.6	940.6	941.8
30°	4089.6	3421.3	1981.2	1094.1	866.9	819.4	815.8	830.1	851.5	869.3	870.5
32.5°	4009.9	3247.7	1658.9	919.2	784.9	758.7	757.5	768.2	780.1	784.9	789.6
35°	3979.0	3103.8	1364.0	808.6	730.2	713.5	713.5	712.3	717.1	719.5	721.8
37.5°	4004.0	2993.2	1135.7	737.3	689.7	677.8	670.7	663.6	661.2	661.2	662.4
40°	4109.8	2934.9	965.6	690.9	661.2	643.4	630.3	621.9	613.6	616.0	618.4
42.5°	4334.6	2945.6	850.3	660.0	636.2	611.2	592.2	582.7	576.8	583.9	582.7
45°	4692.5	3052.6	776.5	638.6	611.2	579.1	561.3	551.8	551.8	562.5	566.1
47.5°	5193.2	3257.2	737.3	621.9	592.2	554.2	536.3	529.2	531.6	549.4	550.6
50°	5804.4	3612.8	730.2	613.6	582.7	536.3	516.1	509.0	514.9	533.9	536.3
52.5°	6478.7	4070.6	764.6	614.8	574.4	525.6	499.5	488.8	494.7	510.2	514.9
55°	7277.8	4643.8	853.8	619.6	562.5	519.7	487.6	463.8	470.9	481.6	482.8
57.5°	8093.6	5366.8	1010.8	620.8	553.0	509.0	467.4	436.4	436.4	443.6	447.1
60°	9090.2	6154.1	1217.7	621.9	554.2	493.5	440.0	405.5	400.8	404.3	405.5
62.5°	10079.6	6812.9	1252.2	618.4	566.1	478.1	410.3	374.6	366.3	365.1	362.7
65°	10516.0	6690.4	1026.3	601.7	579.1	468.5	386.5	344.9	330.6	325.8	325.8
67.5°	9804.9	5659.3	771.8	579.1	570.8	459.0	363.9	319.9	303.2	293.7	293.7
69°	9136.5	5033.8	693.3	563.7	549.4	443.6	349.6	306.8	286.6	275.9	272.3
70°	8620.4	4603.3	660.0	550.6	529.2	425.7	338.9	297.3	274.7	262.8	260.4
72.5°	6879.5	3611.6	577.9	500.6	450.7	357.9	300.9	267.6	246.2	233.1	229.5
75°	3964.8	1957.4	479.2	435.2	362.7	278.3	254.5	233.1	216.4	204.5	201.0
77.5°	1220.1	756.3	347.2	343.7	266.4	215.2	203.4	195.0	183.1	170.1	167.7
80°	513.7	385.3	235.5	231.9	177.2	149.8	146.3	145.1	140.3	129.6	126.1
82.5°	281.8	217.6	164.1	142.7	107.0	86.8	90.4	91.6	88.0	77.3	70.2
85°	137.9	118.9	79.7	64.2	48.8	30.9	29.7	35.7	33.3	23.8	26.2
87.5°	27.4	33.3	21.4	9.5	4.8	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)