

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: P452809

Luminaire Tested: **GALN-SA3D-740-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452809  
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-740-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 22889 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

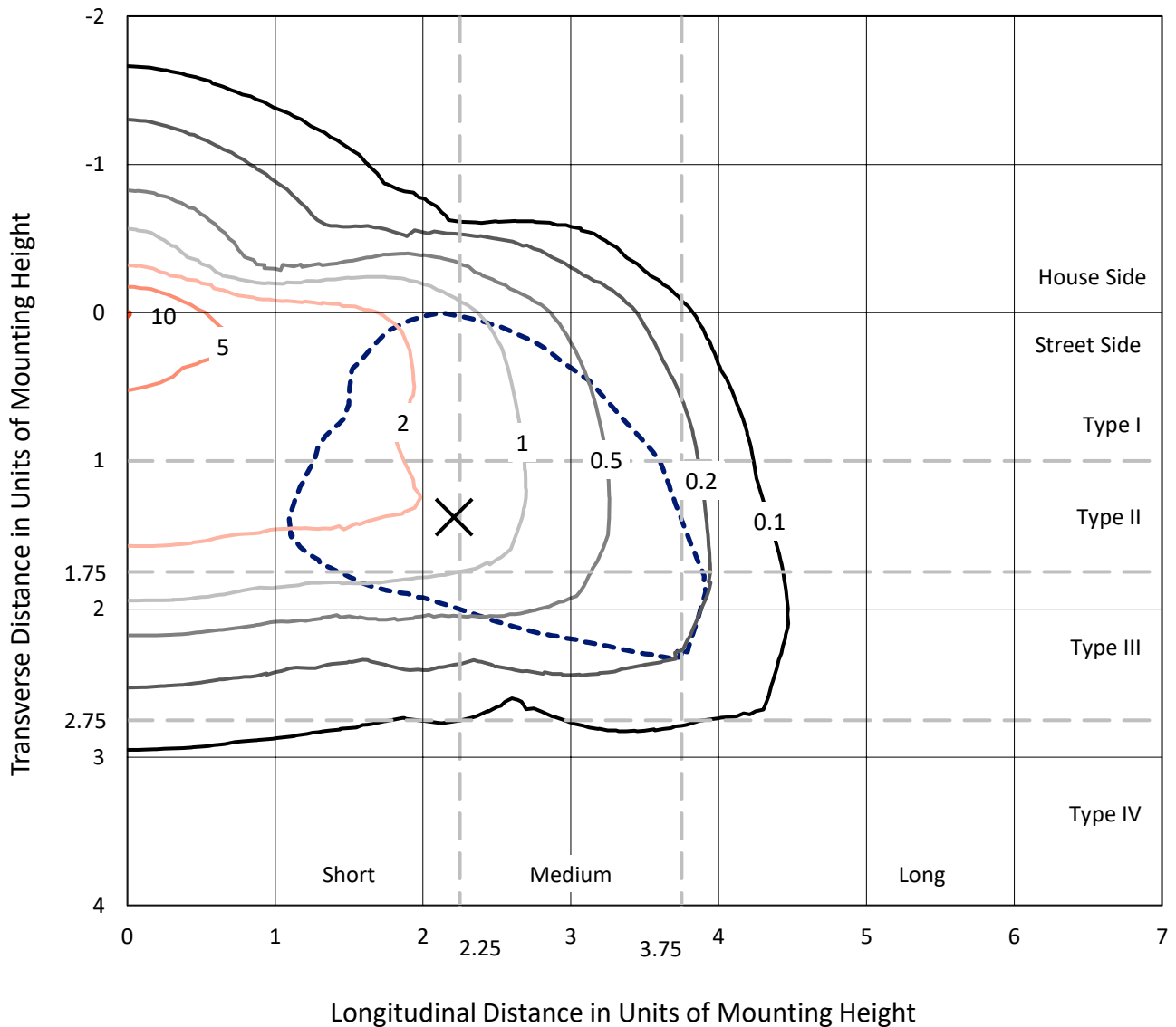
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

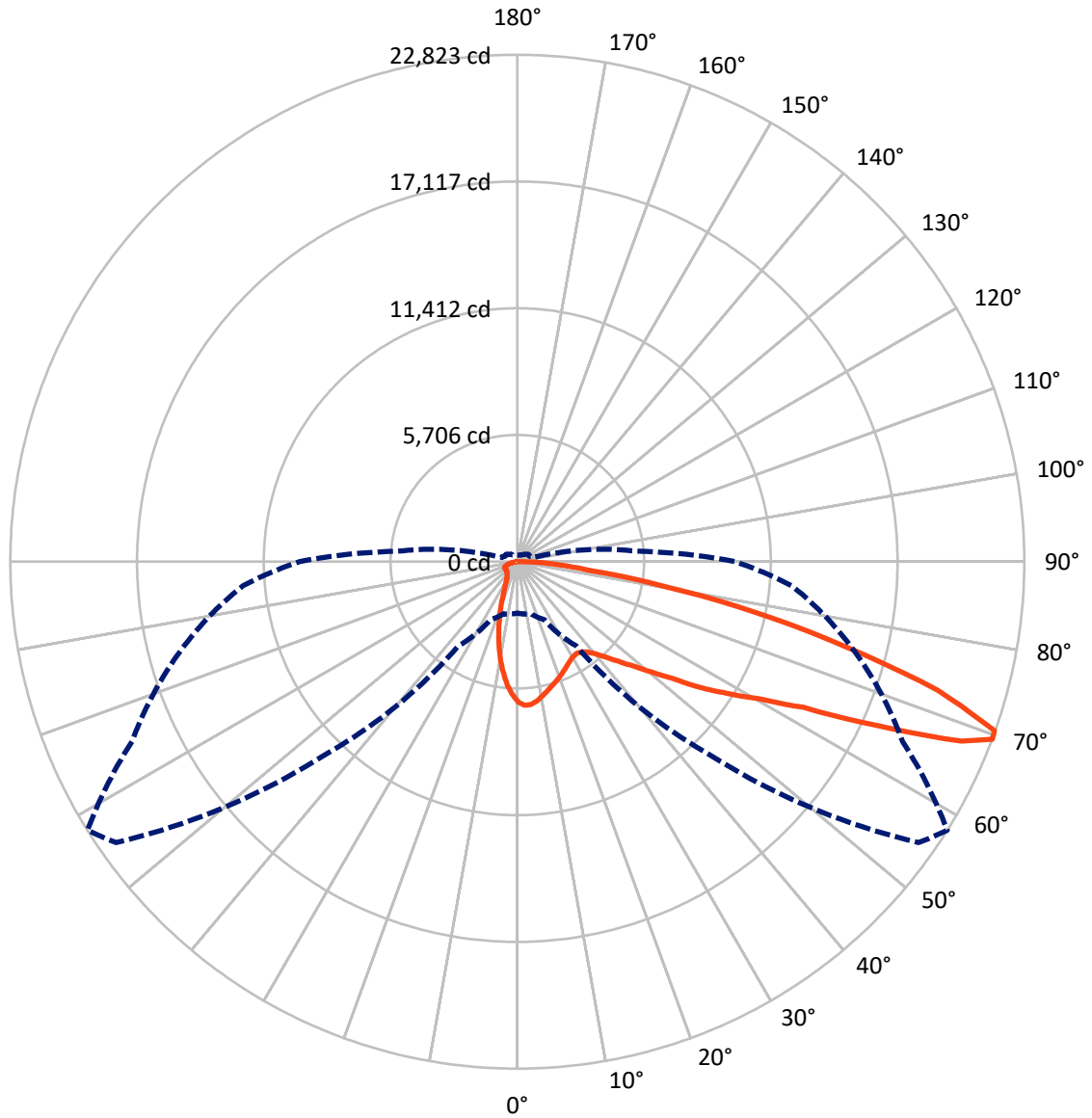
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3354.4	0.0	3354.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	19534.6	0.0	19534.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	22889.0	0.0	22889.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	537.2	2.3
10°-20°	1179.5	5.2
20°-30°	1523.9	6.7
30°-40°	1979.3	8.6
40°-50°	2877.6	12.6
50°-60°	4591.8	20.1
60°-70°	6134.0	26.8
70°-80°	3536.0	15.4
80°-90°	529.6	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°	22889.0	100.0
0°-180°	22889.0	100.0



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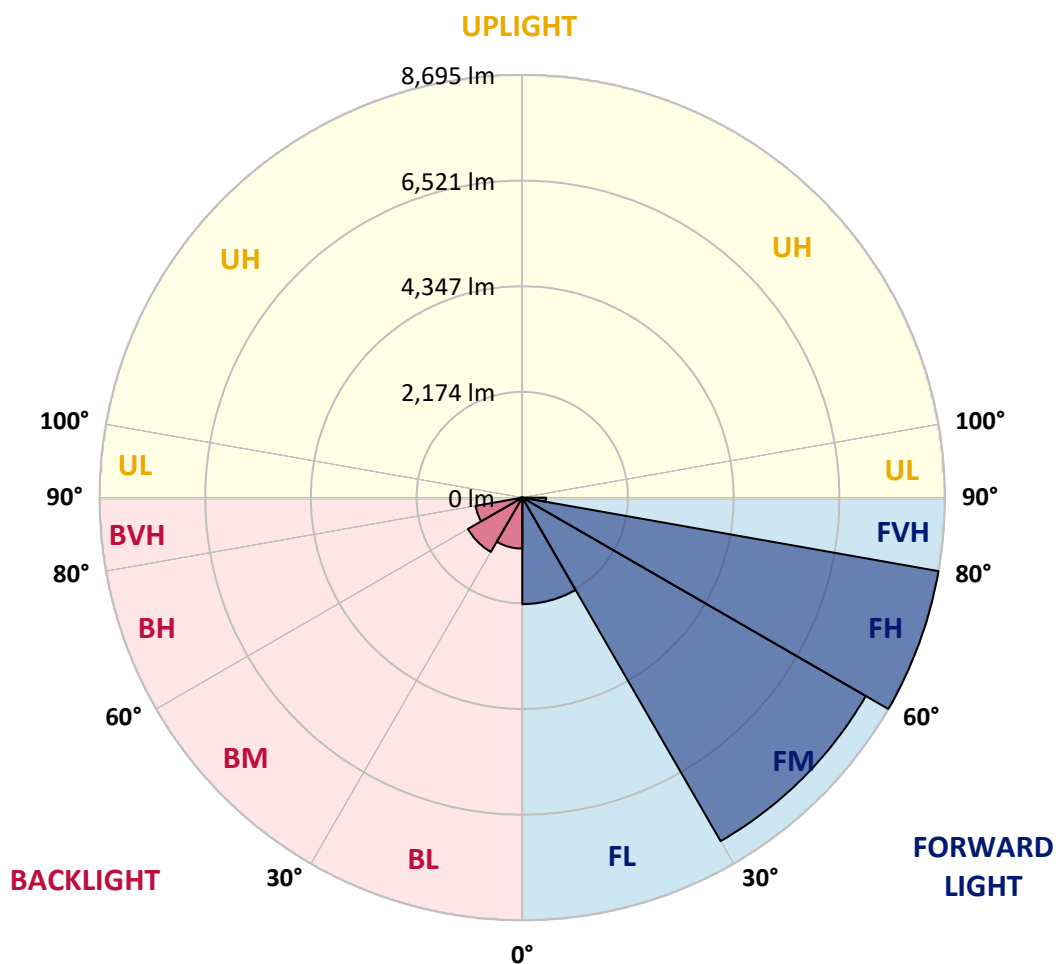
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2192.2	9.6			
FM	(30°-60°)	8158.7	35.6			
FH	(60°-80°)	8694.7	38.0			G4/12000
FVH	(80°-90°)	489.0	2.1			G3/500
BL	(0°-30°)	1048.4	4.6	B3/2500		
BM	(30°-60°)	1290.0	5.6	B2/2500		
BH	(60°-80°)	975.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	40.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2
2.5°	6560.1	6577.9	6572.8	6566.4	6556.2	6528.1	6482.2	6474.5	6445.2	6382.6	6304.8
5°	6459.2	6474.5	6475.8	6484.7	6497.5	6492.4	6459.2	6455.4	6412.0	6327.7	6197.5
7.5°	6113.3	6133.7	6178.4	6228.2	6272.8	6315.0	6325.2	6331.6	6304.8	6207.7	6034.1
10°	5723.9	5744.4	5764.8	5838.8	5948.6	6053.3	6140.1	6151.6	6158.0	6068.6	5856.7
12.5°	5292.5	5334.6	5378.0	5487.8	5634.6	5799.3	5952.4	5976.7	6020.1	5952.4	5703.5
15°	4926.1	4969.5	5032.1	5130.4	5307.8	5545.2	5761.0	5800.5	5886.1	5851.6	5560.5
17.5°	4672.1	4687.4	4730.8	4843.1	5034.6	5284.8	5573.3	5652.5	5789.0	5780.1	5438.0
20°	4471.7	4490.8	4517.6	4586.6	4785.7	5049.9	5398.4	5500.5	5685.6	5716.3	5316.7
22.5°	4387.4	4401.5	4397.6	4434.6	4570.0	4835.5	5221.0	5342.3	5593.7	5672.9	5204.4
25°	4392.5	4405.3	4386.1	4377.2	4457.6	4646.5	5035.9	5190.3	5519.7	5643.5	5102.3
27.5°	4478.0	4487.0	4451.2	4415.5	4421.9	4529.1	4882.7	5053.8	5457.1	5656.3	5016.7
30°	4592.9	4609.5	4586.6	4543.2	4495.9	4501.0	4784.4	4952.9	5427.8	5701.0	4975.9
32.5°	4741.0	4756.3	4746.1	4711.7	4650.4	4582.7	4760.2	4915.9	5430.3	5791.6	4967.0
35°	4896.7	4927.4	4944.0	4941.4	4891.6	4774.2	4855.9	4984.8	5491.6	5943.5	5019.3
37.5°	5072.9	5098.4	5169.9	5215.9	5169.9	5033.3	5071.6	5161.0	5626.9	6163.1	5134.2
40°	5244.0	5282.3	5386.9	5529.9	5512.0	5392.0	5401.0	5459.7	5865.6	6489.9	5358.9
42.5°	5422.7	5468.6	5651.2	5863.1	5905.2	5812.0	5836.3	5888.6	6205.2	6943.0	5744.4
45°	5652.5	5707.3	5932.0	6196.3	6362.2	6304.8	6373.7	6399.2	6659.6	7532.8	6252.4
47.5°	5948.6	6012.4	6289.4	6618.8	6853.7	6906.0	7026.0	7010.7	7222.6	8231.0	6911.1
50°	6447.7	6483.5	6745.2	7080.9	7403.8	7640.0	7770.2	7794.5	7920.8	8910.1	7647.7
52.5°	7041.3	7073.2	7262.1	7555.7	7960.4	8460.8	8782.5	8703.3	8734.0	9737.3	8509.3
55°	7708.9	7762.5	7882.5	8077.8	8602.5	9339.1	9985.0	10004.1	9664.6	10528.8	9335.2
57.5°	8225.9	8316.6	8522.1	8800.4	9465.4	10315.6	11183.6	11196.4	10762.4	11373.8	10246.7
60°	7965.5	8072.7	8542.5	9220.3	10597.7	12019.8	12615.9	12543.1	11830.8	12336.3	11358.5
62.5°	6842.2	6861.3	7544.3	8603.8	10946.2	14299.6	14747.7	14440.0	13256.7	13556.7	12488.2
65°	4428.3	4553.4	5094.6	6579.2	9801.2	15564.7	18482.8	17771.8	15255.7	14941.7	13434.1
67.5°	2795.6	2763.7	2988.3	3756.8	6741.3	14450.3	21670.3	21557.9	17870.1	15816.1	13208.2
69°	2318.2	2353.9	2430.5	2879.8	4638.9	12337.6	22046.9	22823.0	19137.7	15747.2	12387.4
70°	2102.4	2119.0	2199.5	2553.0	3579.4	10333.5	21429.0	22788.5	19635.5	15458.7	11792.5
72.5°	1668.4	1667.1	1805.0	2124.1	2675.6	5898.8	17595.6	19784.9	19078.9	14115.8	9743.7
75°	1267.6	1288.0	1439.9	1797.3	2465.0	3223.2	12278.9	15236.6	15237.9	11149.2	6080.1
77.5°	914.0	926.8	1104.2	1508.9	2322.0	2613.0	8178.7	10928.3	10273.5	5108.7	1911.0
80°	598.7	606.3	741.7	1194.8	2093.5	2465.0	4849.5	6689.0	4845.7	1355.7	631.9
82.5°	328.1	366.4	453.2	773.6	1679.9	2277.3	2947.5	3385.3	1817.8	603.8	329.3
85°	164.7	174.9	255.3	451.9	1097.8	1884.2	2052.7	1941.6	938.2	300.0	171.1
87.5°	48.5	61.3	106.0	174.9	445.5	981.6	1142.5	1025.0	361.3	108.5	35.7
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°	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2	6325.2
2.5°	6272.8	6249.9	6147.7	6055.8	5971.6	5882.2	5806.9	5740.5	5746.9	5748.2	5680.5
5°	6129.9	6077.5	5883.5	5702.2	5549.1	5355.0	5189.1	5081.8	5028.2	4956.7	4982.3
7.5°	5935.8	5835.0	5565.6	5264.4	4982.3	4730.8	4457.6	4270.0	4150.0	4033.8	4049.1
10°	5735.4	5573.3	5181.4	4783.1	4418.1	4015.9	3667.5	3368.7	3146.6	3063.7	3008.8
12.5°	5529.9	5316.7	4818.9	4289.1	3784.9	3303.6	2809.6	2489.2	2244.1	2113.9	2130.5
15°	5342.3	5083.1	4441.0	3795.1	3140.3	2567.1	2074.4	1769.3	1598.2	1562.5	1582.9
17.5°	5168.6	4829.1	4087.4	3315.1	2550.5	1925.0	1558.6	1386.3	1317.4	1298.2	1296.9
20°	4989.9	4613.4	3690.4	2802.0	1987.5	1492.3	1279.1	1198.7	1185.9	1193.6	1194.8
22.5°	4808.7	4346.6	3281.9	2292.6	1582.9	1220.4	1118.2	1096.5	1106.7	1124.6	1127.2
25°	4641.4	4111.7	2888.8	1845.9	1263.8	1072.3	1022.5	1022.5	1045.5	1072.3	1073.6
27.5°	4503.6	3884.5	2496.9	1465.5	1058.2	965.1	948.5	957.4	989.3	1009.7	1011.0
30°	4390.0	3672.6	2126.7	1174.4	930.6	879.5	875.7	891.0	914.0	933.1	934.4
32.5°	4304.4	3486.2	1780.8	986.8	842.5	814.4	813.1	824.6	837.4	842.5	847.6
35°	4271.3	3331.7	1464.2	868.0	783.8	765.9	765.9	764.6	769.7	772.3	774.9
37.5°	4298.1	3213.0	1219.1	791.4	740.4	727.6	720.0	712.3	709.7	709.7	711.0
40°	4411.7	3150.5	1036.5	741.7	709.7	690.6	676.6	667.6	658.7	661.2	663.8
42.5°	4652.9	3162.0	912.7	708.5	682.9	656.1	635.7	625.5	619.1	626.8	625.5
45°	5037.2	3276.8	833.6	685.5	656.1	621.7	602.5	592.3	592.3	603.8	607.6
47.5°	5574.6	3496.4	791.4	667.6	635.7	594.9	575.7	568.1	570.6	589.8	591.0
50°	6230.7	3878.1	783.8	658.7	625.5	575.7	554.0	546.4	552.7	573.2	575.7
52.5°	6954.5	4369.5	820.8	660.0	616.6	564.2	536.1	524.7	531.0	547.6	552.7
55°	7812.3	4984.8	916.5	665.1	603.8	557.8	523.4	497.8	505.5	517.0	518.3
57.5°	8688.0	5761.0	1085.0	666.3	593.6	546.4	501.7	468.5	468.5	476.1	480.0
60°	9757.8	6606.0	1307.2	667.6	594.9	529.8	472.3	435.3	430.2	434.0	435.3
62.5°	10819.8	7313.2	1344.2	663.8	607.6	513.2	440.4	402.1	393.2	391.9	389.3
65°	11288.3	7181.7	1101.6	645.9	621.7	503.0	414.9	370.2	354.9	349.8	349.8
67.5°	10524.9	6075.0	828.5	621.7	612.7	492.7	390.6	343.4	325.5	315.3	315.3
69°	9807.5	5403.5	744.2	605.1	589.8	476.1	375.3	329.3	307.6	296.2	292.3
70°	9253.5	4941.4	708.5	591.0	568.1	457.0	363.8	319.1	294.9	282.1	279.6
72.5°	7384.7	3876.8	620.4	537.4	483.8	384.2	323.0	287.2	264.2	250.2	246.4
75°	4255.9	2101.2	514.4	467.2	389.3	298.7	273.2	250.2	232.3	219.6	215.7
77.5°	1309.7	811.9	372.7	368.9	285.9	231.1	218.3	209.4	196.6	182.5	180.0
80°	551.5	413.6	252.8	248.9	190.2	160.8	157.0	155.7	150.6	139.1	135.3
82.5°	302.5	233.6	176.2	153.2	114.9	93.2	97.0	98.3	94.5	83.0	75.3
85°	148.1	127.7	85.5	68.9	52.3	33.2	31.9	38.3	35.7	25.5	28.1
87.5°	29.4	35.7	23.0	10.2	5.1	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)