

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: P459015

Luminaire Tested: **GALN-SA5B-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459015  
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-SA5B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 26311 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

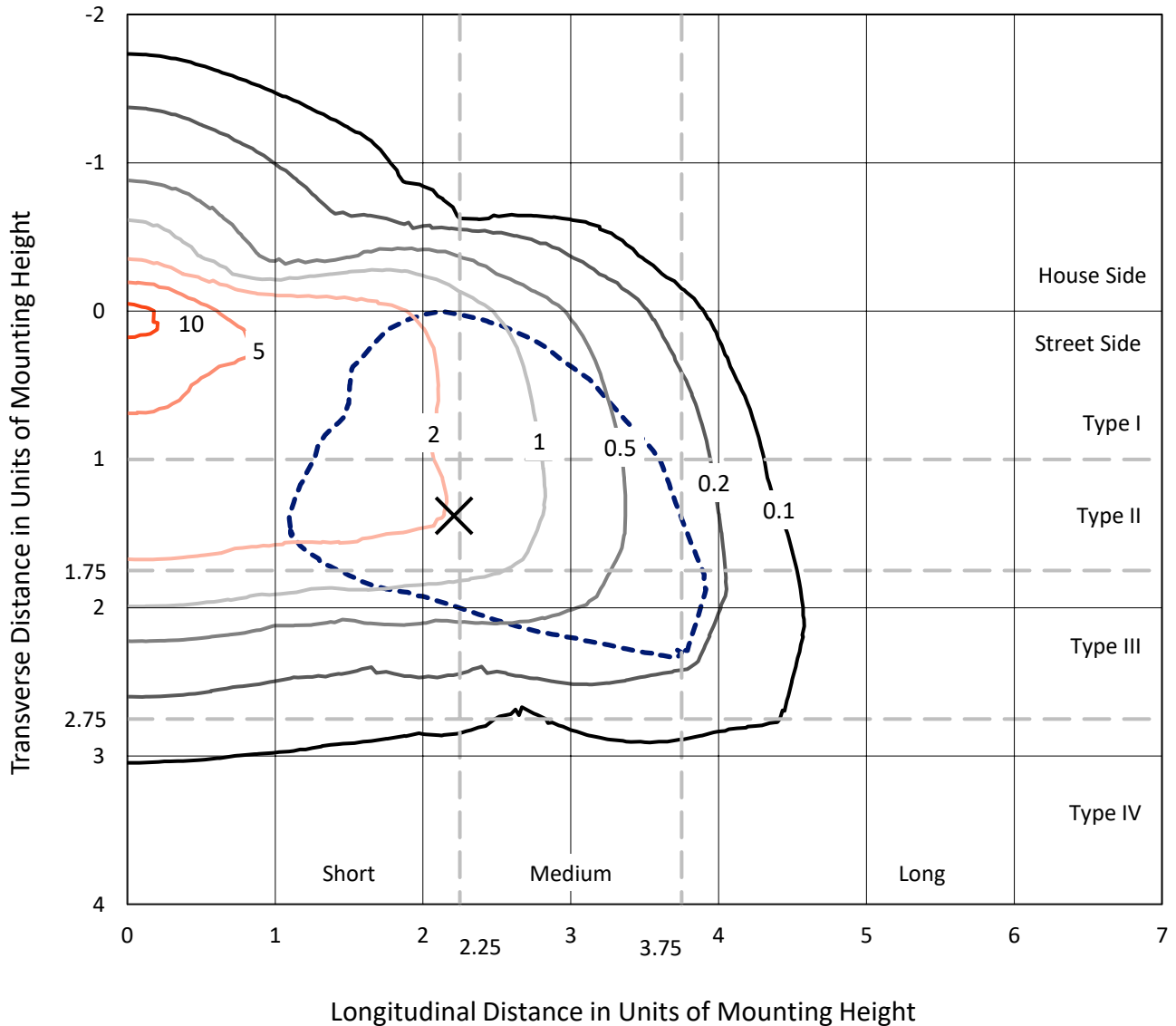
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

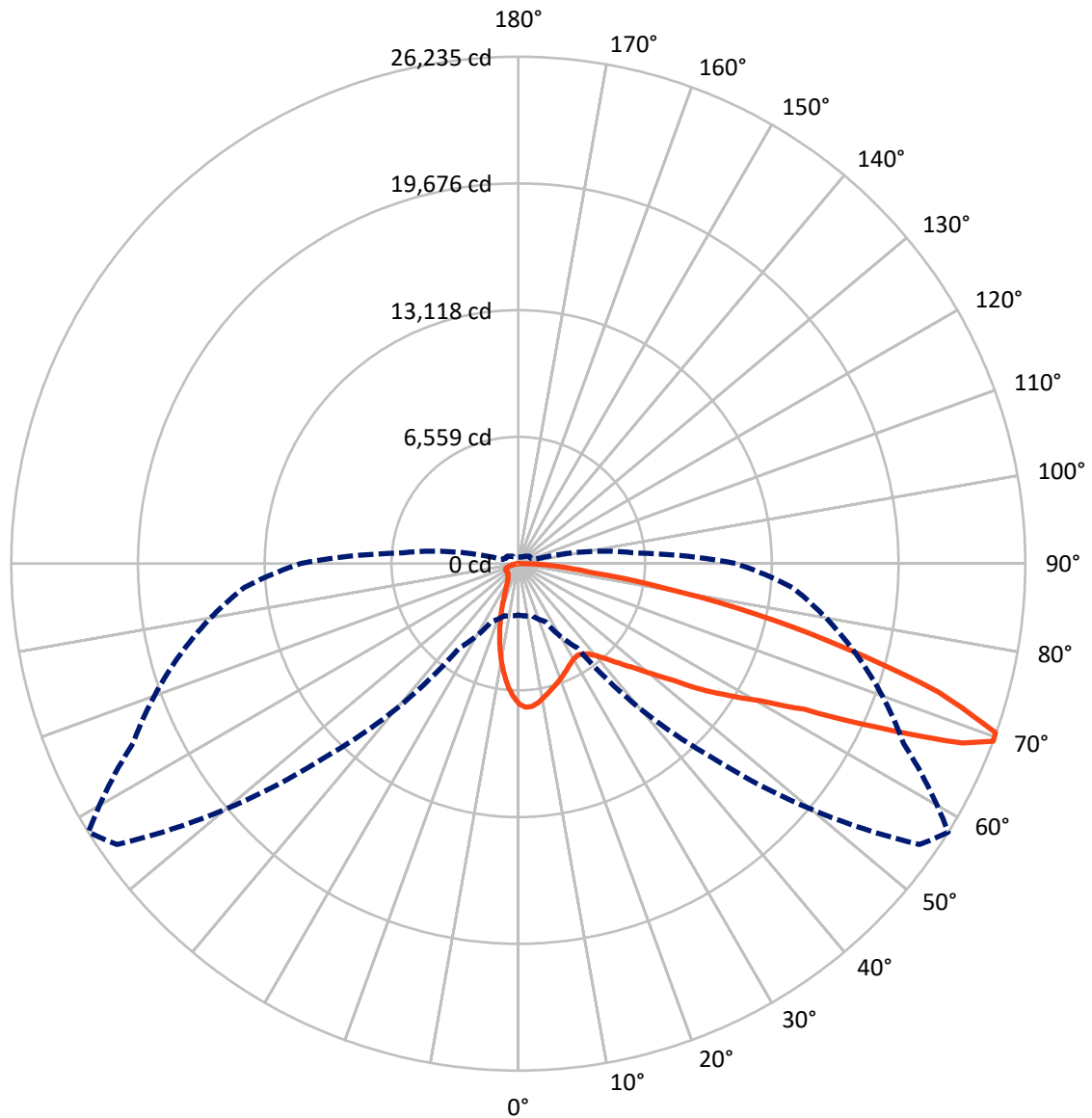
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	3855.9	0.0	3855.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	22455.1	0.0	22455.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	26311.0	0.0	26311.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.5	2.3
10°-20°	1355.9	5.2
20°-30°	1751.8	6.7
30°-40°	2275.2	8.6
40°-50°	3307.9	12.6
50°-60°	5278.3	20.1
60°-70°	7051.1	26.8
70°-80°	4064.7	15.4
80°-90°	608.8	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°	26311.0	100.0
0°-180°	26311.0	100.0

**Coefficient of Utilization**



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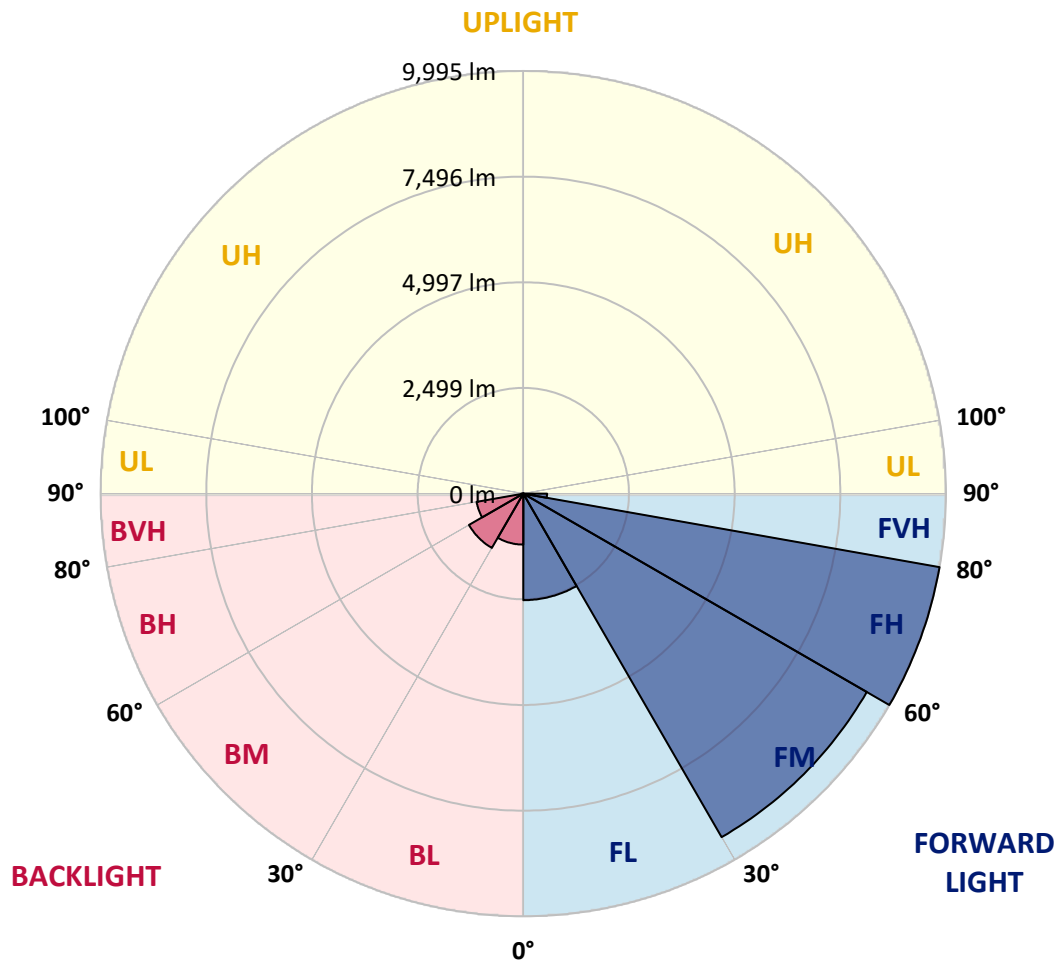
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2519.9	9.6			
FM	(30°-60°)	9378.5	35.6			
FH	(60°-80°)	9994.5	38.0			G4/12000
FVH	(80°-90°)	562.2	2.1			G4/750
BL	(0°-30°)	1205.2	4.6	B3/2500		
BM	(30°-60°)	1482.8	5.6	B2/2500		
BH	(60°-80°)	1121.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	46.6	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°	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8
2.5°	7540.8	7561.4	7555.5	7548.2	7536.4	7504.1	7451.3	7442.5	7408.8	7336.9	7247.3
5°	7424.9	7442.5	7444.0	7454.2	7468.9	7463.0	7424.9	7420.5	7370.6	7273.8	7124.1
7.5°	7027.2	7050.7	7102.1	7159.3	7210.7	7259.1	7270.8	7278.2	7247.3	7135.8	6936.3
10°	6579.7	6603.2	6626.6	6711.8	6837.9	6958.3	7058.1	7071.3	7078.6	6975.9	6732.3
12.5°	6083.7	6132.1	6182.0	6308.2	6477.0	6666.3	6842.3	6870.2	6920.1	6842.3	6556.2
15°	5662.6	5712.5	5784.4	5897.4	6101.3	6374.3	6622.2	6667.7	6766.0	6726.4	6391.9
17.5°	5370.6	5388.2	5438.1	5567.2	5787.3	6074.9	6406.5	6497.5	6654.5	6644.3	6251.0
20°	5140.2	5162.2	5193.0	5272.3	5501.2	5804.9	6205.5	6322.9	6535.7	6570.9	6111.6
22.5°	5043.4	5059.5	5055.1	5097.6	5253.2	5558.4	6001.5	6140.9	6430.0	6521.0	5982.5
25°	5049.2	5063.9	5041.9	5031.6	5124.1	5341.2	5788.8	5966.3	6344.9	6487.2	5865.1
27.5°	5147.5	5157.8	5116.7	5075.6	5083.0	5206.2	5612.7	5809.3	6273.0	6501.9	5766.8
30°	5279.6	5298.7	5272.3	5222.4	5168.1	5173.9	5499.7	5693.4	6239.3	6553.3	5719.8
32.5°	5449.8	5467.4	5455.7	5416.1	5345.6	5267.9	5471.8	5650.8	6242.2	6657.5	5709.5
35°	5628.8	5664.0	5683.1	5680.2	5623.0	5488.0	5581.9	5730.1	6312.6	6832.1	5769.7
37.5°	5831.3	5860.7	5942.8	5995.7	5942.8	5785.8	5829.9	5932.6	6468.2	7084.5	5901.8
40°	6028.0	6072.0	6192.3	6356.6	6336.1	6198.2	6208.4	6275.9	6742.6	7460.1	6160.0
42.5°	6233.4	6286.2	6496.0	6739.6	6788.1	6680.9	6708.8	6769.0	7132.9	7981.0	6603.2
45°	6497.5	6560.6	6818.9	7122.6	7313.4	7247.3	7326.6	7355.9	7655.3	8659.0	7187.2
47.5°	6837.9	6911.3	7229.7	7608.3	7878.3	7938.5	8076.4	8058.8	8302.4	9461.6	7944.3
50°	7411.7	7452.8	7753.6	8139.5	8510.7	8782.2	8931.9	8959.8	9105.0	10242.2	8791.0
52.5°	8094.0	8130.7	8347.9	8685.4	9150.5	9725.7	10095.5	10004.5	10039.7	11193.1	9781.5
55°	8861.4	8923.1	9061.0	9285.5	9888.6	10735.3	11477.8	11499.8	11109.5	12102.9	10730.9
57.5°	9455.7	9559.9	9796.2	10116.1	10880.6	11857.8	12855.6	12870.3	12371.4	13074.3	11778.6
60°	9156.4	9279.7	9819.6	10598.8	12182.1	13816.8	14502.0	14418.4	13599.6	14180.7	13056.7
62.5°	7865.1	7887.1	8672.2	9890.1	12582.7	16437.5	16952.5	16598.9	15238.6	15583.5	14355.3
65°	5090.3	5234.1	5856.3	7562.8	11266.5	17891.6	21246.1	20428.7	17536.5	17175.6	15442.6
67.5°	3213.5	3176.9	3435.1	4318.5	7749.2	16610.6	24910.1	24781.0	20541.7	18180.7	15182.9
69°	2664.7	2705.8	2793.9	3310.4	5332.4	14182.1	25343.0	26235.1	21998.8	18101.5	14239.4
70°	2416.8	2435.8	2528.3	2934.7	4114.5	11878.4	24632.7	26195.5	22571.1	17769.9	13555.6
72.5°	1917.9	1916.4	2074.9	2441.7	3075.6	6780.7	20226.2	22742.8	21931.3	16226.2	11200.4
75°	1457.1	1480.6	1655.2	2066.1	2833.5	3705.1	14114.6	17514.5	17516.0	12816.0	6989.1
77.5°	1050.6	1065.3	1269.3	1734.4	2669.1	3003.7	9401.4	12562.2	11809.4	5872.4	2196.7
80°	688.2	697.0	852.5	1373.5	2406.5	2833.5	5574.5	7689.0	5570.1	1558.3	726.3
82.5°	377.1	421.1	520.9	889.2	1931.1	2617.8	3388.2	3891.5	2089.5	694.1	378.6
85°	189.3	201.0	293.5	519.4	1261.9	2165.8	2359.5	2231.9	1078.5	344.8	196.6
87.5°	55.8	70.4	121.8	201.0	512.1	1128.4	1313.3	1178.3	415.3	124.7	41.1
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°	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8	7270.8
2.5°	7210.7	7184.2	7066.9	6961.2	6864.4	6761.6	6675.1	6598.8	6606.1	6607.6	6529.8
5°	7046.3	6986.2	6763.1	6554.7	6378.7	6155.6	5964.9	5841.6	5780.0	5697.8	5727.1
7.5°	6823.3	6707.3	6397.7	6051.4	5727.1	5438.1	5124.1	4908.4	4770.4	4636.9	4654.5
10°	6592.9	6406.5	5956.1	5498.2	5078.6	4616.3	4215.8	3872.4	3617.1	3521.7	3458.6
12.5°	6356.6	6111.6	5539.3	4930.4	4350.8	3797.6	3229.7	2861.4	2579.6	2430.0	2449.0
15°	6140.9	5843.1	5105.0	4362.5	3609.7	2950.9	2384.5	2033.8	1837.1	1796.1	1819.5
17.5°	5941.4	5551.1	4698.5	3810.8	2931.8	2212.8	1791.7	1593.6	1514.3	1492.3	1490.8
20°	5736.0	5303.1	4242.2	3220.9	2284.7	1715.4	1470.3	1377.9	1363.2	1372.0	1373.5
22.5°	5527.6	4996.4	3772.6	2635.4	1819.5	1402.8	1285.4	1260.5	1272.2	1292.8	1295.7
25°	5335.4	4726.4	3320.7	2121.8	1452.7	1232.6	1175.4	1175.4	1201.8	1232.6	1234.1
27.5°	5176.9	4465.2	2870.2	1684.5	1216.5	1109.3	1090.3	1100.5	1137.2	1160.7	1162.2
30°	5046.3	4221.6	2444.6	1350.0	1069.7	1011.0	1006.6	1024.2	1050.6	1072.6	1074.1
32.5°	4948.0	4007.4	2047.0	1134.3	968.5	936.2	934.7	947.9	962.6	968.5	974.3
35°	4909.8	3829.8	1683.1	997.8	901.0	880.4	880.4	879.0	884.8	887.8	890.7
37.5°	4940.6	3693.4	1401.3	909.8	851.1	836.4	827.6	818.8	815.9	815.9	817.3
40°	5071.2	3621.5	1191.5	852.5	815.9	793.8	777.7	767.4	757.2	760.1	763.0
42.5°	5348.6	3634.7	1049.2	814.4	785.0	754.2	730.8	719.0	711.7	720.5	719.0
45°	5790.2	3766.7	958.2	788.0	754.2	714.6	692.6	680.9	680.9	694.1	698.5
47.5°	6408.0	4019.1	909.8	767.4	730.8	683.8	661.8	653.0	655.9	677.9	679.4
50°	7162.2	4457.9	901.0	757.2	719.0	661.8	636.8	628.0	635.4	658.8	661.8
52.5°	7994.2	5022.8	943.5	758.6	708.7	648.6	616.3	603.1	610.4	629.5	635.4
55°	8980.3	5730.1	1053.6	764.5	694.1	641.2	601.6	572.3	581.1	594.3	595.8
57.5°	9986.9	6622.2	1247.3	766.0	682.3	628.0	576.7	538.5	538.5	547.3	551.7
60°	11216.6	7593.6	1502.6	767.4	683.8	609.0	542.9	500.4	494.5	498.9	500.4
62.5°	12437.4	8406.6	1545.1	763.0	698.5	589.9	506.2	462.2	452.0	450.5	447.5
65°	12976.0	8255.4	1266.3	742.5	714.6	578.1	476.9	425.5	407.9	402.1	402.1
67.5°	12098.5	6983.2	952.3	714.6	704.3	566.4	449.0	394.7	374.2	362.4	362.4
69°	11273.8	6211.4	855.5	695.5	677.9	547.3	431.4	378.6	353.6	340.4	336.0
70°	10637.0	5680.2	814.4	679.4	653.0	525.3	418.2	366.8	339.0	324.3	321.4
72.5°	8488.7	4456.4	713.1	617.8	556.1	441.7	371.2	330.2	303.7	287.6	283.2
75°	4892.2	2415.3	591.4	537.1	447.5	343.4	314.0	287.6	267.1	252.4	248.0
77.5°	1505.5	933.2	428.5	424.1	328.7	265.6	250.9	240.6	226.0	209.8	206.9
80°	633.9	475.4	290.5	286.1	218.6	184.9	180.5	179.0	173.1	159.9	155.5
82.5°	347.8	268.5	202.5	176.1	132.1	107.1	111.5	113.0	108.6	95.4	86.6
85°	170.2	146.7	98.3	79.2	60.2	38.2	36.7	44.0	41.1	29.3	32.3
87.5°	33.7	41.1	26.4	11.7	5.9	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)