

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: P455303

Luminaire Tested: **GALN-SA6C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455303
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-SA6C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 34557 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

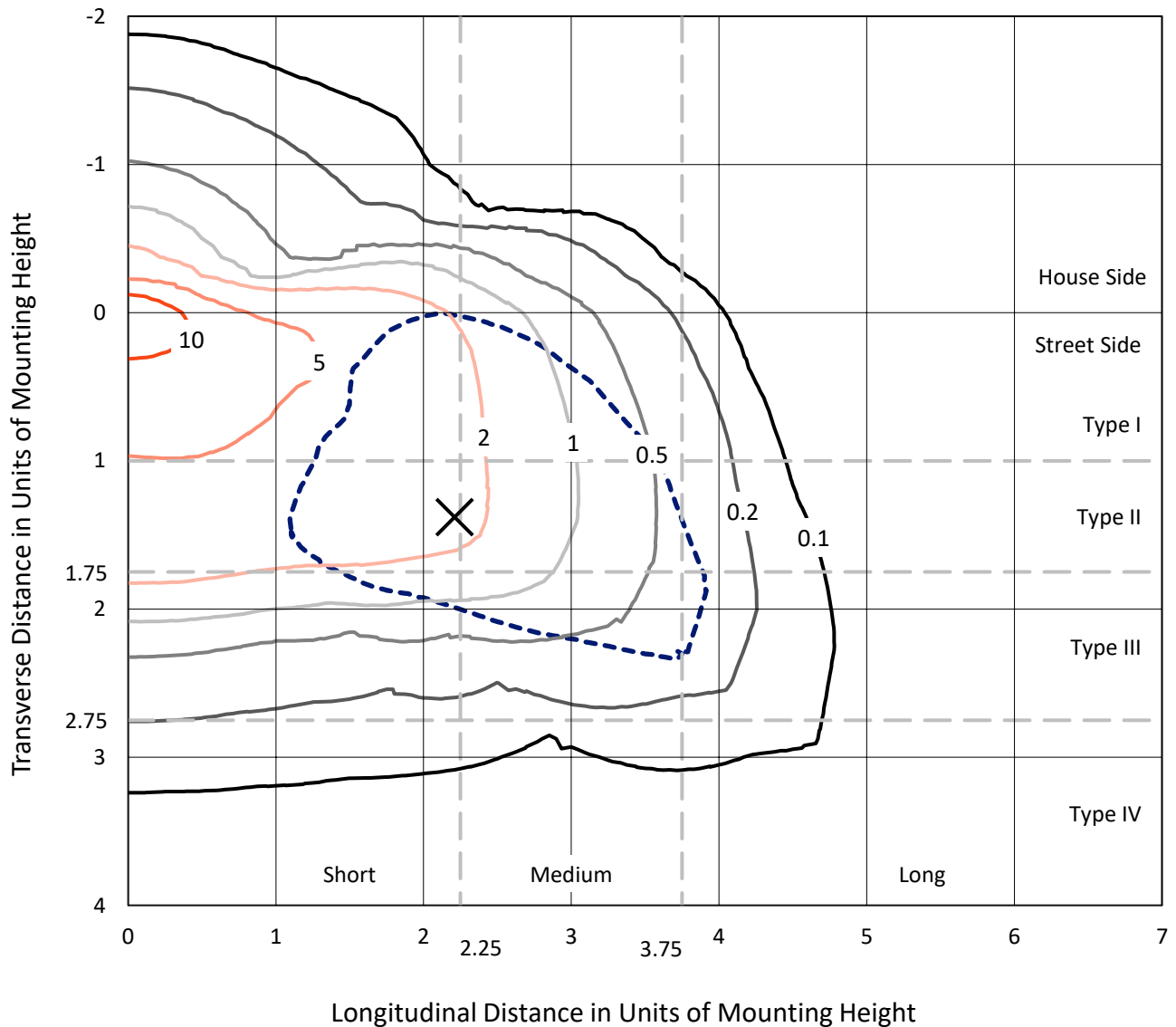
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

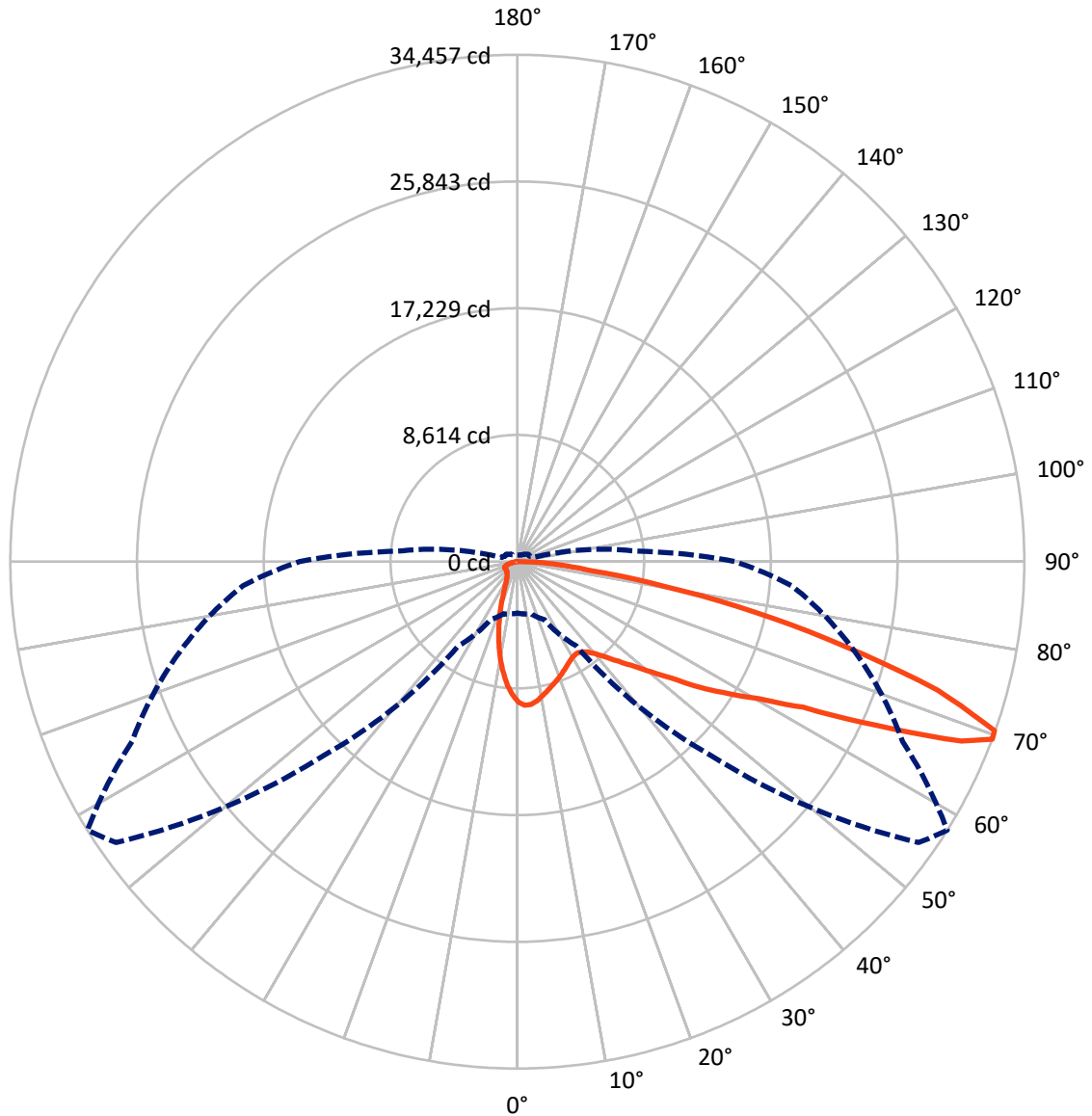
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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
House Side	Lumens	5064.3	0.0	5064.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	29492.7	0.0	29492.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	34557.0	0.0	34557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.0	2.3
10°-20°	1780.8	5.2
20°-30°	2300.8	6.7
30°-40°	2988.3	8.6
40°-50°	4344.6	12.6
50°-60°	6932.5	20.1
60°-70°	9260.9	26.8
70°-80°	5338.5	15.4
80°-90°	799.6	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°	34557.0	100.0
0°-180°	34557.0	100.0

Coefficient of Utilization



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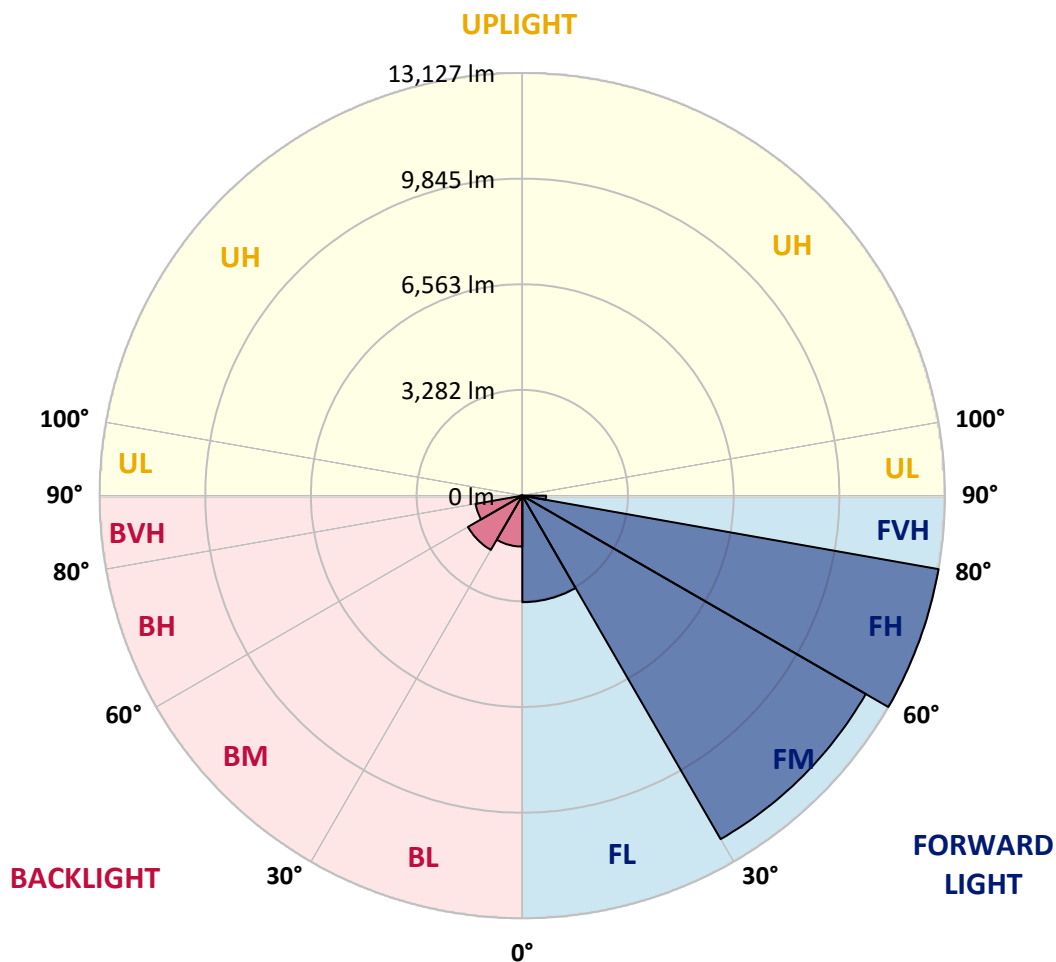
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3309.7	9.6			
FM	(30°-60°)	12317.8	35.6			
FH	(60°-80°)	13126.9	38.0			G5
FVH	(80°-90°)	738.3	2.1			G4/750
BL	(0°-30°)	1582.9	4.6	B3/2500		
BM	(30°-60°)	1947.6	5.6	B2/2500		
BH	(60°-80°)	1472.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	61.3	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5
2.5°	9904.1	9931.1	9923.4	9913.8	9898.4	9856.0	9786.6	9775.0	9730.7	9636.3	9518.7
5°	9751.9	9775.0	9776.9	9790.4	9809.7	9802.0	9751.9	9746.1	9680.6	9553.4	9356.8
7.5°	9229.6	9260.4	9327.9	9403.1	9470.5	9534.1	9549.5	9559.2	9518.7	9372.2	9110.1
10°	8641.8	8672.6	8703.5	8815.2	8981.0	9139.0	9270.1	9287.4	9297.1	9162.2	8842.2
12.5°	7990.4	8054.0	8119.5	8285.3	8506.9	8755.5	8986.8	9023.4	9088.9	8986.8	8611.0
15°	7437.3	7502.8	7597.2	7745.6	8013.5	8372.0	8697.7	8757.4	8886.6	8834.5	8395.1
17.5°	7053.7	7076.9	7142.4	7312.0	7601.1	7978.8	8414.4	8533.9	8740.1	8726.6	8210.1
20°	6751.2	6780.1	6820.5	6924.6	7225.3	7624.2	8150.3	8304.5	8584.0	8630.2	8027.0
22.5°	6624.0	6645.2	6639.4	6695.3	6899.6	7300.4	7882.5	8065.5	8445.2	8564.7	7857.4
25°	6631.7	6650.9	6622.0	6608.5	6730.0	7015.2	7603.0	7836.2	8333.4	8520.4	7703.2
27.5°	6760.8	6774.3	6720.3	6666.4	6676.0	6837.9	7371.7	7630.0	8239.0	8539.7	7574.1
30°	6934.3	6959.3	6924.6	6859.1	6787.8	6795.5	7223.3	7477.7	8194.7	8607.1	7512.4
32.5°	7157.8	7180.9	7165.5	7113.5	7021.0	6918.8	7186.7	7421.8	8198.5	8743.9	7498.9
35°	7392.9	7439.2	7464.2	7460.4	7385.2	7207.9	7331.3	7525.9	8291.0	8973.3	7578.0
37.5°	7658.9	7697.4	7805.4	7874.8	7805.4	7599.2	7657.0	7791.9	8495.3	9304.8	7751.4
40°	7917.1	7975.0	8133.0	8348.9	8321.9	8140.7	8154.2	8242.9	8855.7	9798.1	8090.6
42.5°	8187.0	8256.3	8531.9	8851.9	8915.5	8774.8	8811.4	8890.4	9368.4	10482.3	8672.6
45°	8533.9	8616.7	8955.9	9354.9	9605.4	9518.7	9622.8	9661.3	10054.5	11372.7	9439.7
47.5°	8981.0	9077.4	9495.6	9992.8	10347.4	10426.4	10607.6	10584.5	10904.4	12426.9	10434.1
50°	9734.5	9788.5	10183.6	10690.5	11178.1	11534.6	11731.2	11767.8	11958.6	13452.2	11546.2
52.5°	10630.7	10678.9	10964.1	11407.4	12018.3	12773.8	13259.5	13140.0	13186.3	14701.1	12847.1
55°	11638.7	11719.6	11900.8	12195.6	12987.7	14099.8	15075.0	15103.9	14591.2	15896.0	14094.0
57.5°	12419.2	12556.0	12866.3	13286.5	14290.6	15574.1	16884.7	16903.9	16248.7	17171.8	15470.0
60°	12026.0	12187.9	12897.2	13920.5	16000.0	18147.0	19047.0	18937.2	17861.8	18625.0	17148.7
62.5°	10330.1	10359.0	11390.1	12989.7	16526.2	21589.1	22265.5	21801.1	20014.5	20467.4	18854.3
65°	6685.6	6874.5	7691.7	9933.1	14797.4	23499.0	27904.7	26831.2	23032.6	22558.5	20282.4
67.5°	4220.7	4172.5	4511.7	5671.9	10177.8	21816.5	32717.0	32547.4	26979.6	23878.6	19941.3
69°	3499.9	3553.9	3669.5	4347.9	7003.6	18626.9	33285.6	34457.3	28893.4	23774.6	18702.0
70°	3174.2	3199.2	3320.7	3854.5	5404.0	15601.1	32352.8	34405.3	29645.0	23339.0	17804.0
72.5°	2518.9	2517.0	2725.1	3206.9	4039.5	8905.8	26565.2	29870.5	28804.7	21311.5	14710.7
75°	1913.8	1944.6	2173.9	2713.6	3721.5	4866.3	18538.2	23003.7	23005.6	16832.6	9179.5
77.5°	1379.9	1399.2	1667.1	2278.0	3505.7	3945.1	12347.9	16499.2	15510.5	7712.9	2885.1
80°	903.9	915.4	1119.7	1803.9	3160.7	3721.5	7321.6	10098.8	7315.8	2046.7	954.0
82.5°	495.3	553.1	684.2	1167.9	2536.3	3438.2	4450.0	5111.1	2744.4	911.6	497.2
85°	248.6	264.0	385.5	682.2	1657.4	2844.6	3099.0	2931.3	1416.5	452.9	258.3
87.5°	73.2	92.5	160.0	264.0	672.6	1482.1	1724.9	1547.6	545.4	163.8	54.0
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°	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5	9549.5
2.5°	9470.5	9435.8	9281.6	9142.9	9015.7	8880.8	8767.1	8666.9	8676.5	8678.4	8576.3
5°	9254.7	9175.6	8882.7	8609.0	8377.8	8084.8	7834.3	7672.4	7591.4	7483.5	7522.1
7.5°	8961.7	8809.5	8402.8	7948.0	7522.1	7142.4	6730.0	6446.7	6265.5	6090.1	6113.2
10°	8659.1	8414.4	7822.7	7221.4	6670.2	6063.1	5537.0	5086.0	4750.7	4625.4	4542.5
12.5°	8348.9	8027.0	7275.4	6475.6	5714.3	4987.7	4241.9	3758.1	3388.1	3191.5	3216.6
15°	8065.5	7674.3	6704.9	5729.7	4741.0	3875.7	3131.8	2671.2	2412.9	2359.0	2389.8
17.5°	7803.4	7290.8	6171.1	5005.1	3850.6	2906.3	2353.2	2093.0	1988.9	1960.0	1958.1
20°	7533.6	6965.1	5571.7	4230.3	3000.7	2253.0	1931.1	1809.7	1790.4	1802.0	1803.9
22.5°	7260.0	6562.3	4955.0	3461.3	2389.8	1842.5	1688.3	1655.5	1670.9	1697.9	1701.8
25°	7007.5	6207.7	4361.4	2786.8	1908.0	1618.9	1543.7	1543.7	1578.4	1618.9	1620.8
27.5°	6799.3	5864.6	3769.7	2212.5	1597.7	1457.0	1431.9	1445.4	1493.6	1524.5	1526.4
30°	6627.8	5544.7	3210.8	1773.1	1405.0	1327.9	1322.1	1345.2	1379.9	1408.8	1410.7
32.5°	6498.7	5263.3	2688.5	1489.8	1272.0	1229.6	1227.7	1245.0	1264.3	1272.0	1279.7
35°	6448.6	5030.1	2210.6	1310.5	1183.3	1156.4	1156.4	1154.4	1162.1	1166.0	1169.8
37.5°	6489.1	4850.9	1840.5	1194.9	1117.8	1098.5	1087.0	1075.4	1071.6	1071.6	1073.5
40°	6660.6	4756.5	1564.9	1119.7	1071.6	1042.6	1021.4	1008.0	994.5	998.3	1002.2
42.5°	7024.8	4773.8	1378.0	1069.6	1031.1	990.6	959.8	944.4	934.7	946.3	944.4
45°	7604.9	4947.3	1258.5	1034.9	990.6	938.6	909.7	894.2	894.2	911.6	917.4
47.5°	8416.3	5278.7	1194.9	1008.0	959.8	898.1	869.2	857.6	861.5	890.4	892.3
50°	9406.9	5855.0	1183.3	994.5	944.4	869.2	836.4	824.9	834.5	865.3	869.2
52.5°	10499.7	6597.0	1239.2	996.4	930.9	851.8	809.4	792.1	801.7	826.8	834.5
55°	11794.8	7525.9	1383.8	1004.1	911.6	842.2	790.2	751.6	763.2	780.5	782.5
57.5°	13116.9	8697.7	1638.2	1006.0	896.2	824.9	757.4	707.3	707.3	718.9	724.6
60°	14731.9	9973.5	1973.5	1008.0	898.1	799.8	713.1	657.2	649.5	655.3	657.2
62.5°	16335.4	11041.2	2029.4	1002.2	917.4	774.8	664.9	607.1	593.6	591.7	587.8
65°	17042.7	10842.7	1663.2	975.2	938.6	759.3	626.4	558.9	535.8	528.1	528.1
67.5°	15890.2	9171.8	1250.8	938.6	925.1	743.9	589.7	518.4	491.4	476.0	476.0
69°	14807.1	8158.1	1123.6	913.5	890.4	718.9	566.6	497.2	464.5	447.1	441.3
70°	13970.6	7460.4	1069.6	892.3	857.6	690.0	549.3	481.8	445.2	425.9	422.1
72.5°	11149.2	5853.1	936.6	811.4	730.4	580.1	487.6	433.6	398.9	377.7	372.0
75°	6425.5	3172.3	776.7	705.4	587.8	451.0	412.4	377.7	350.8	331.5	325.7
77.5°	1977.4	1225.7	562.8	557.0	431.7	348.8	329.6	316.1	296.8	275.6	271.7
80°	832.6	624.4	381.6	375.8	287.2	242.8	237.1	235.1	227.4	210.1	204.3
82.5°	456.8	352.7	266.0	231.3	173.5	140.7	146.5	148.4	142.6	125.3	113.7
85°	223.6	192.7	129.1	104.1	79.0	50.1	48.2	57.8	54.0	38.5	42.4
87.5°	44.3	54.0	34.7	15.4	7.7	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)