

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: P522857

Luminaire Tested: **GALN-SA7D-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45095 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

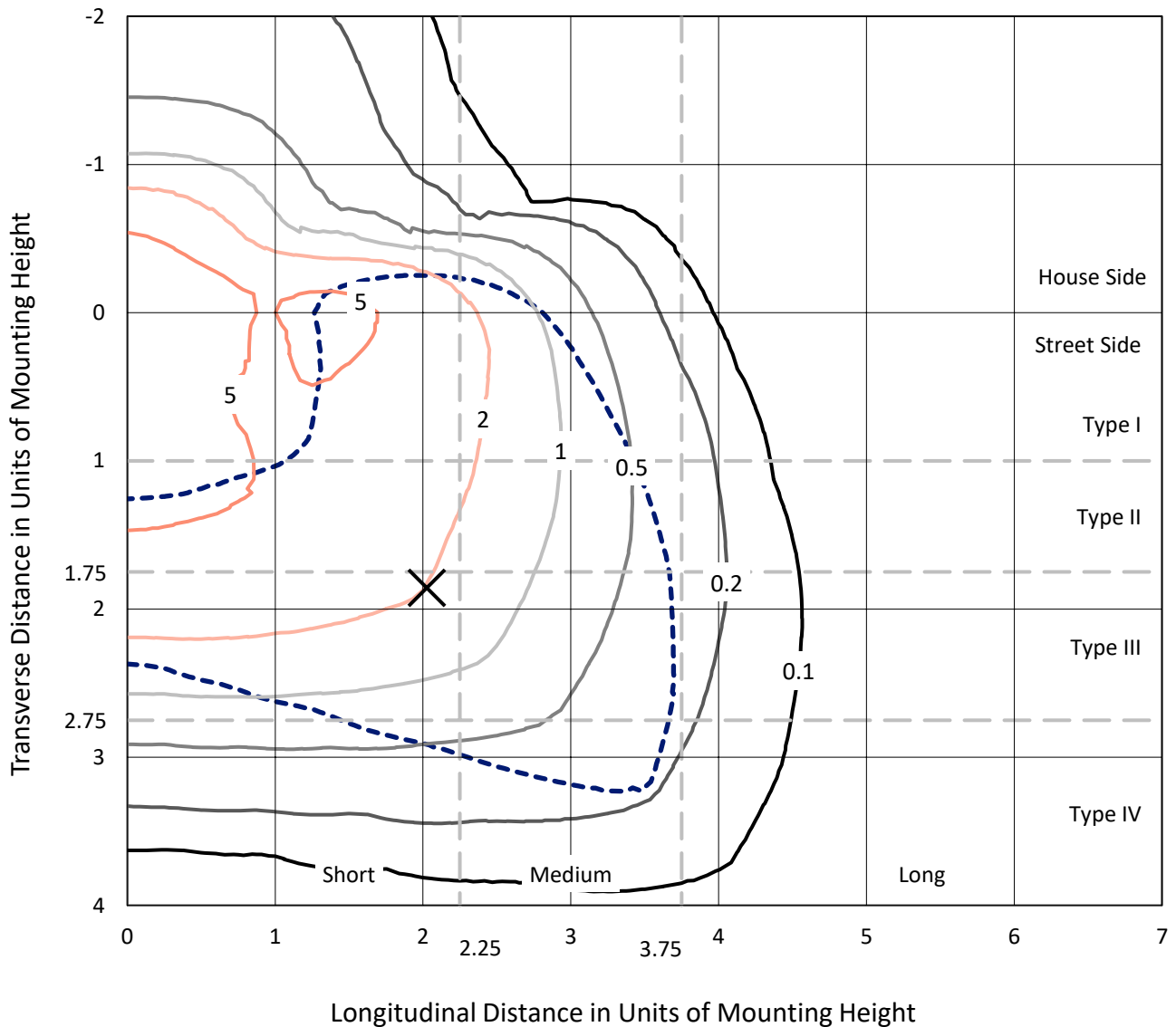
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

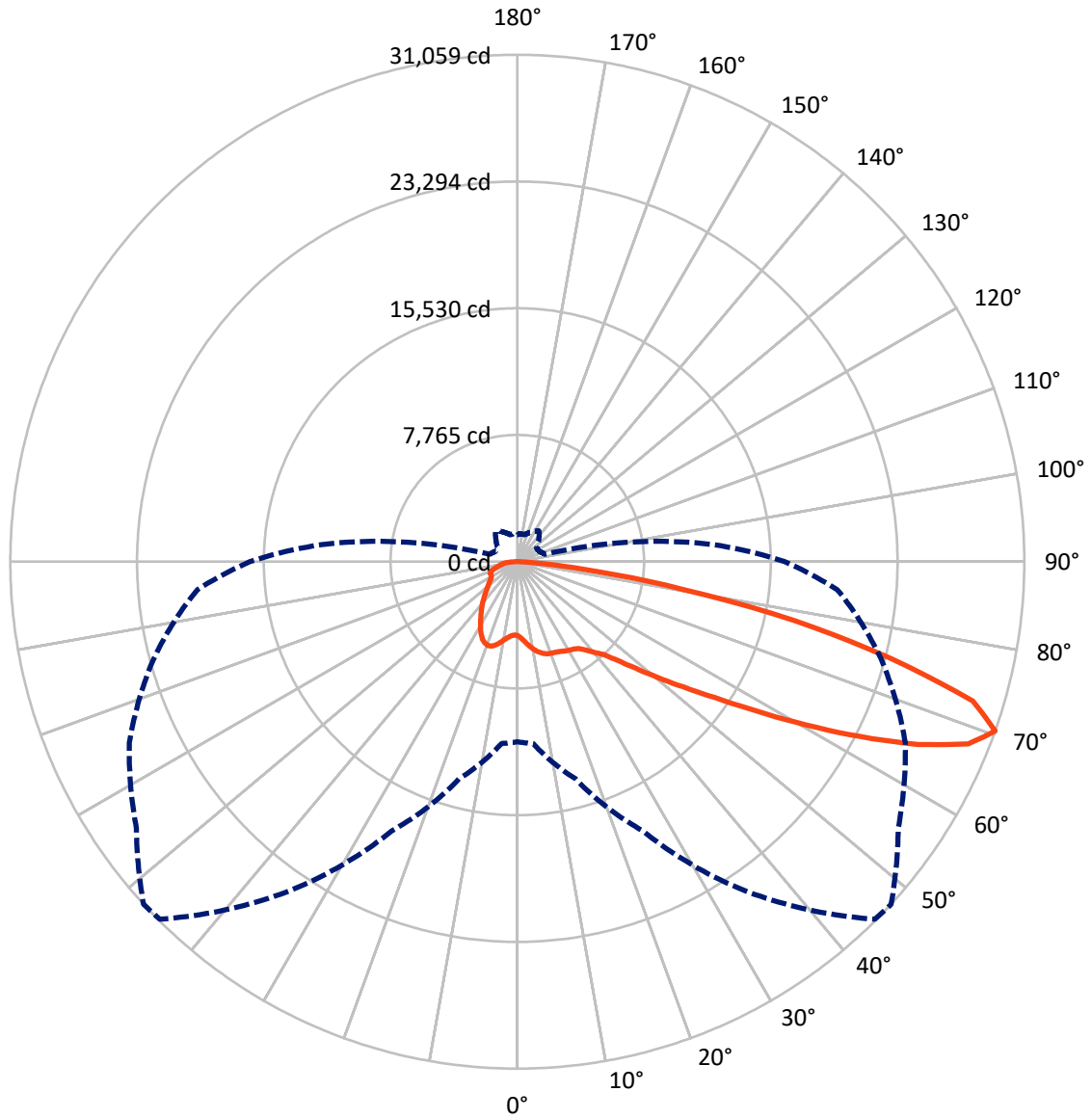
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10210.4	0.0	10210.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	34884.6	0.0	34884.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	45095.0	0.0	45095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	1.0
10°-20°	1560.0	3.5
20°-30°	2594.3	5.8
30°-40°	3677.0	8.2
40°-50°	5428.0	12.0
50°-60°	9401.6	20.8
60°-70°	13280.0	29.4
70°-80°	7634.1	16.9
80°-90°	1053.3	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°	45095.0	100.0
0°-180°	45095.0	100.0

Coefficient of Utilization



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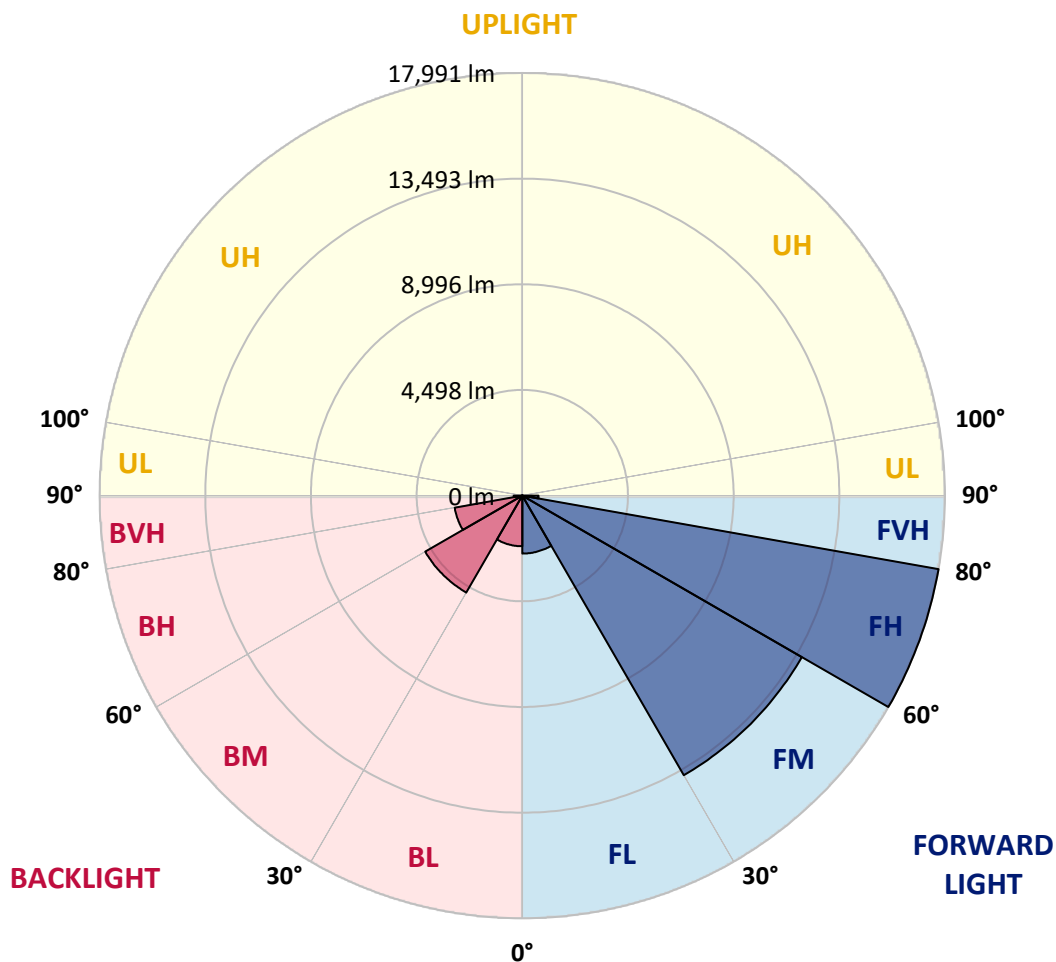
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2466.0	5.5			
FM	(30°-60°)	13739.6	30.5			
FH	(60°-80°)	17991.0	39.9			G5
FVH	(80°-90°)	688.1	1.5			G4/750
BL	(0°-30°)	2155.0	4.8	B3/2500		
BM	(30°-60°)	4767.1	10.6	B3/5000		
BH	(60°-80°)	2923.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	365.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0
2.5°	4819.0	4802.1	4799.7	4763.5	4744.2	4708.0	4693.5	4659.7	4618.7	4577.7	4539.1
5°	5197.8	5197.8	5180.9	5130.3	5050.6	4968.6	4932.4	4867.2	4751.4	4657.3	4577.7
7.5°	5586.4	5591.2	5557.4	5482.6	5369.2	5236.4	5202.7	5106.1	4942.1	4804.5	4686.3
10°	5921.8	5921.8	5875.9	5774.6	5632.2	5487.4	5453.6	5345.0	5161.6	4990.3	4835.9
12.5°	6177.6	6177.6	6117.2	5984.5	5830.1	5699.8	5661.2	5557.4	5386.1	5195.4	5000.0
15°	6344.1	6332.0	6264.4	6114.8	5965.2	5851.8	5825.2	5738.4	5581.5	5388.5	5168.9
17.5°	6351.3	6346.5	6281.3	6155.8	6025.5	5948.3	5931.4	5873.5	5750.4	5567.0	5335.4
20°	6211.3	6221.0	6177.6	6088.3	6025.5	5991.8	5984.5	5965.2	5878.3	5707.0	5475.3
22.5°	6061.7	6078.6	6037.6	5989.3	5984.5	6018.3	6023.1	6028.0	5972.4	5805.9	5593.6
25°	6025.5	6037.6	5996.6	5953.1	5979.7	6069.0	6088.3	6107.6	6064.1	5924.2	5733.6
27.5°	6208.9	6199.3	6119.6	6025.5	6042.4	6163.1	6189.6	6211.3	6189.6	6069.0	5907.3
30°	6727.8	6696.4	6537.1	6262.0	6175.1	6259.6	6286.2	6346.5	6346.5	6257.2	6095.5
32.5°	7596.5	7536.1	7244.2	6703.6	6402.0	6351.3	6377.9	6476.8	6527.5	6457.5	6281.3
35°	8651.0	8588.3	8170.8	7444.4	6817.0	6534.7	6527.5	6638.5	6773.6	6616.7	6387.5
37.5°	9710.4	9645.2	9143.3	8327.6	7422.7	6920.8	6877.4	6916.0	6973.9	6686.7	6534.7
40°	10769.7	10692.5	10253.3	9314.6	8163.6	7432.4	7319.0	7145.2	7121.1	6916.0	6819.5
42.5°	11819.4	11749.4	11527.4	10422.2	9051.6	7931.9	7758.2	7458.9	7550.6	7427.6	7343.1
45°	12878.8	12883.6	12647.1	11665.0	10123.0	8853.7	8619.6	8151.5	8368.7	8322.8	8371.1
47.5°	13817.5	13805.4	13720.9	12871.5	11452.6	10041.0	9739.3	9196.4	9568.0	9736.9	10106.1
50°	14727.2	14720.0	14724.8	14239.8	12997.0	11452.6	11119.6	10550.1	11387.5	11973.9	12635.0
52.5°	16030.3	16071.3	15779.3	15651.4	14874.4	13120.1	12753.3	12164.5	13537.6	14461.8	15752.8
55°	17338.2	17304.4	17075.2	17207.9	16838.7	15094.0	14710.3	14242.2	15931.4	16942.4	18882.6
57.5°	18108.0	18120.0	18354.1	19003.2	19263.9	17555.4	17207.9	16845.9	18622.0	19338.7	21667.3
60°	18800.5	18856.0	19529.3	20755.2	21462.2	20579.0	20270.1	19917.8	21090.6	21375.3	24085.3
62.5°	19017.7	19189.1	20364.2	22198.2	23605.0	23991.1	23607.5	22830.4	23441.0	23330.0	25723.8
65°	17934.2	18168.3	20275.0	22738.7	25518.6	27229.5	26985.8	25542.8	25443.8	24775.4	25991.6
67.5°	15081.9	15316.0	18021.1	21604.6	26310.1	30033.6	29789.8	27521.5	26660.0	24910.5	23964.6
70°	11035.2	11182.4	13769.2	18190.0	24719.9	30974.7	31059.1	28486.8	26225.7	23074.2	19676.5
72.5°	6358.5	6684.3	8496.6	12796.7	20195.3	28595.4	29181.7	26479.1	23479.6	19249.4	13757.1
75°	2734.1	2741.3	3928.5	7058.3	13677.5	22984.9	23552.0	21949.7	18438.6	13310.7	7345.5
77.5°	1300.7	1324.8	1727.8	3151.5	7528.9	15880.7	17410.6	15506.6	11792.9	6394.7	2775.1
80°	844.6	861.5	1056.9	1563.7	3692.1	9208.4	10275.0	8945.4	5202.7	2285.2	1196.9
82.5°	511.6	516.4	707.0	955.6	2031.8	4169.9	4915.5	3882.7	2220.1	1368.2	704.6
85°	311.3	313.7	429.5	591.2	1233.1	1440.6	1479.2	1467.2	1303.1	895.3	376.4
87.5°	149.6	154.4	222.0	279.9	485.0	446.4	422.3	489.9	615.3	482.6	161.7
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°	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0	4527.0
2.5°	4522.2	4514.9	4498.0	4490.8	4486.0	4488.4	4486.0	4486.0	4488.4	4488.4	4488.4
5°	4543.9	4531.8	4505.3	4505.3	4519.8	4553.5	4584.9	4609.0	4635.6	4633.2	4633.2
7.5°	4638.0	4616.3	4584.9	4594.6	4630.8	4683.8	4739.3	4792.4	4845.5	4850.4	4847.9
10°	4775.5	4753.8	4720.0	4732.1	4790.0	4869.7	4939.6	5016.9	5074.8	5091.7	5086.8
12.5°	4932.4	4889.0	4860.0	4893.8	4985.5	5091.7	5159.2	5217.1	5258.2	5282.3	5272.6
15°	5091.7	5050.6	5016.9	5086.8	5197.8	5296.8	5330.6	5340.2	5347.5	5371.6	5366.8
17.5°	5246.1	5190.6	5178.5	5270.2	5376.4	5419.8	5400.5	5359.5	5328.1	5347.5	5345.0
20°	5383.6	5340.2	5335.4	5427.1	5468.1	5427.1	5345.0	5272.6	5217.1	5222.0	5219.6
22.5°	5514.0	5480.2	5485.0	5523.6	5458.5	5318.5	5183.4	5084.4	5024.1	5036.2	5043.4
25°	5658.7	5625.0	5637.0	5574.3	5359.5	5115.8	4920.3	4835.9	4811.7	4835.9	4852.8
27.5°	5847.0	5825.2	5818.0	5576.7	5183.4	4816.6	4594.6	4563.2	4584.9	4638.0	4664.5
30°	6049.7	6049.7	6011.1	5535.7	4942.1	4457.0	4264.0	4268.8	4343.6	4418.4	4444.9
32.5°	6245.1	6286.2	6165.5	5424.7	4630.8	4107.1	3959.9	3964.7	4029.9	4121.6	4145.7
35°	6406.8	6525.1	6298.2	5222.0	4264.0	3812.7	3701.7	3636.6	3639.0	3709.0	3728.3
37.5°	6628.8	6848.4	6375.4	4920.3	3873.0	3561.8	3436.3	3322.9	3248.0	3219.1	3219.1
40°	7014.9	7338.3	6394.7	4473.9	3503.8	3322.9	3144.3	3009.1	2864.4	2734.1	2709.9
42.5°	7668.9	8076.7	6356.1	3959.9	3170.8	3059.8	2886.1	2719.6	2519.3	2335.9	2321.4
45°	8827.2	9037.1	6252.4	3426.6	2874.0	2806.4	2637.5	2456.5	2244.2	2080.1	2068.0
47.5°	10682.8	10386.0	6114.8	2953.6	2603.7	2584.4	2454.1	2244.2	2031.8	1918.4	1906.4
50°	13392.8	12509.6	6095.5	2611.0	2386.6	2396.2	2290.0	2097.0	1911.2	1817.1	1802.6
52.5°	16655.3	15074.7	6223.4	2369.7	2195.9	2232.1	2179.0	2000.5	1836.4	1756.7	1742.3
55°	19821.3	17381.6	6300.6	2181.5	2017.4	2084.9	2092.2	1942.6	1792.9	1713.3	1703.7
57.5°	22391.3	19119.1	5958.0	2010.1	1862.9	1966.7	2019.8	1908.8	1771.2	1710.9	1701.2
60°	24179.4	19939.5	4983.1	1858.1	1749.5	1872.6	1993.2	1911.2	1824.3	1831.6	1836.4
62.5°	24748.9	19575.2	3737.9	1744.7	1672.3	1841.2	2036.7	2010.1	1920.8	1976.3	1986.0
65°	23805.3	18069.4	2709.9	1655.4	1604.7	1862.9	2167.0	2082.5	1887.1	1928.1	1928.1
67.5°	20646.6	15567.0	2109.1	1573.3	1527.5	1903.9	2297.3	2075.3	1807.4	1855.7	1812.2
70°	16377.8	12041.4	1756.7	1481.6	1445.5	1843.6	2309.3	2000.5	1713.3	1723.0	1640.9
72.5°	10868.6	7917.4	1510.6	1394.8	1320.0	1657.8	2210.4	1903.9	1621.6	1566.1	1484.1
75°	5325.7	3947.8	1317.6	1286.2	1155.9	1443.0	2075.3	1812.2	1522.7	1435.8	1390.0
77.5°	2063.2	1679.5	1124.5	1148.6	1006.3	1271.7	1896.7	1681.9	1392.4	1274.1	1237.9
80°	1001.4	953.2	921.8	958.0	827.7	1083.5	1732.6	1568.5	1271.7	1141.4	1088.3
82.5°	622.6	588.8	707.0	745.7	637.1	989.4	1643.3	1472.0	1119.7	945.9	902.5
85°	316.1	337.8	473.0	509.2	456.1	786.7	1353.8	1105.2	808.4	670.8	675.7
87.5°	120.7	161.7	248.6	267.9	243.7	415.1	745.7	644.3	518.8	352.3	325.8
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)