

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: P522884

Luminaire Tested: **GALN-SA8C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522884
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-SA8C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47512 lumens
Efficiency: N/A
Efficacy: 110.8 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

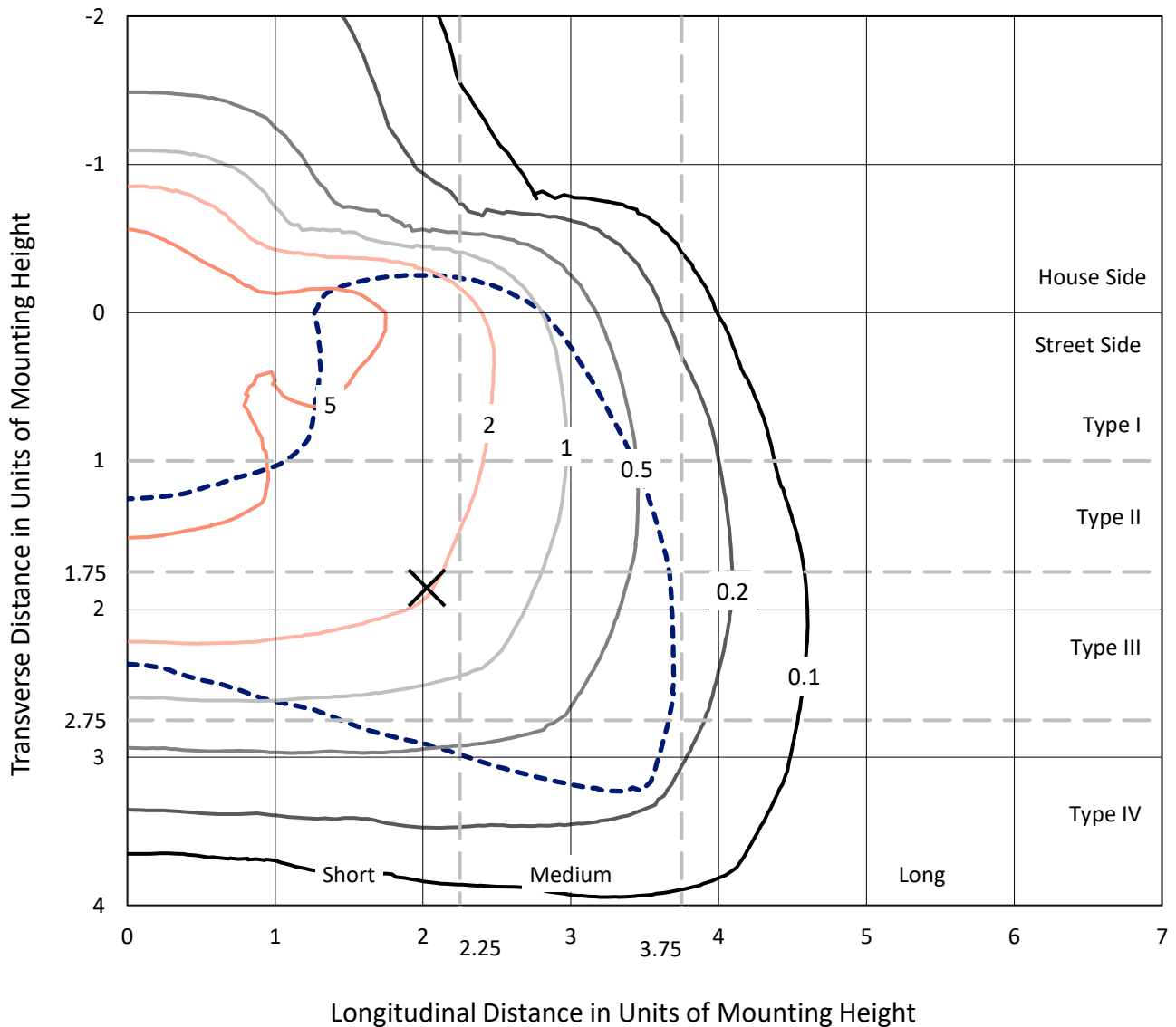
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

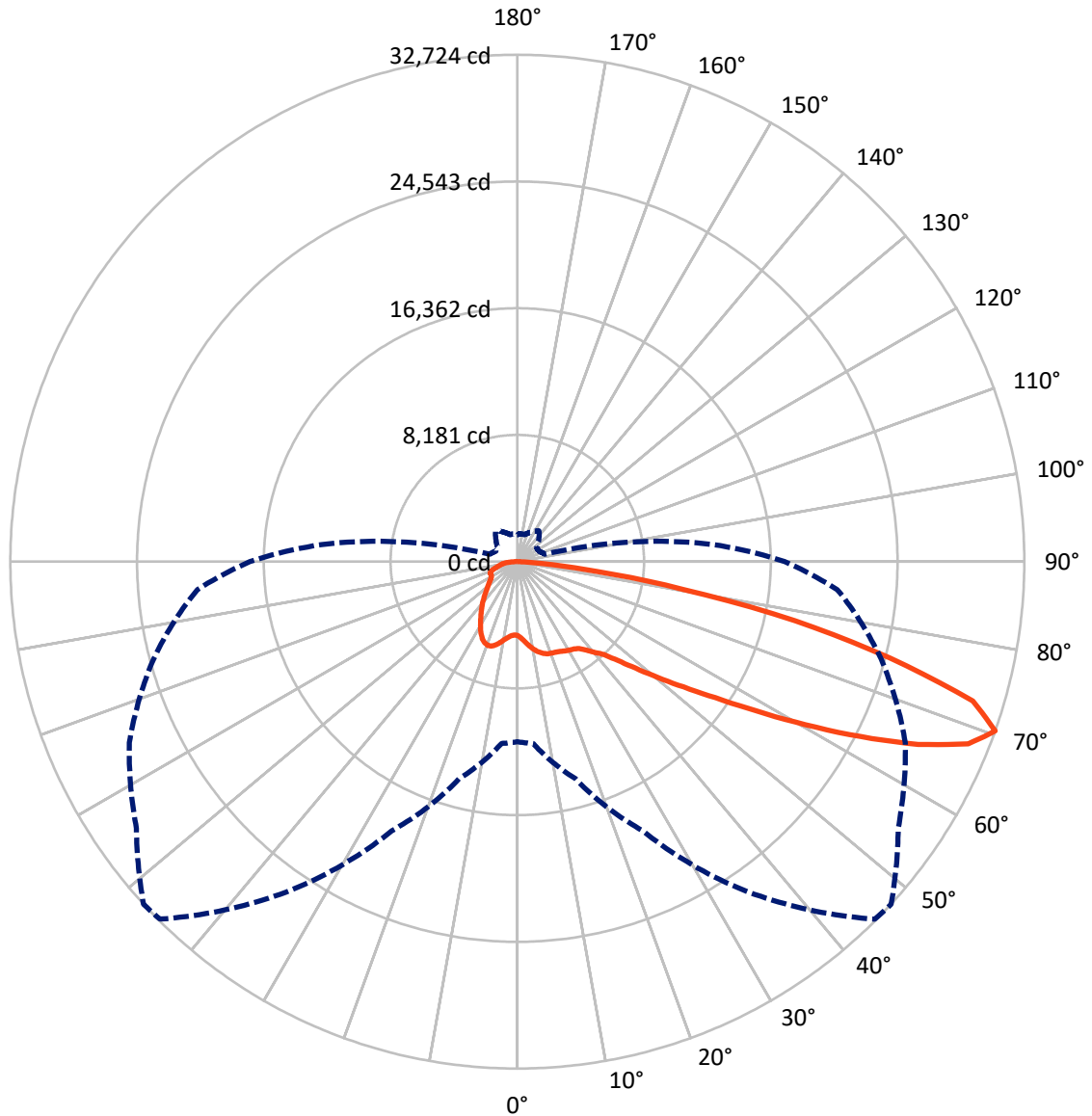
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	10757.6	0.0	10757.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	36754.4	0.0	36754.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	47512.0	0.0	47512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.6	1.0
10°-20°	1643.6	3.5
20°-30°	2733.3	5.8
30°-40°	3874.1	8.2
40°-50°	5719.0	12.0
50°-60°	9905.5	20.8
60°-70°	13991.8	29.4
70°-80°	8043.3	16.9
80°-90°	1109.8	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°	47512.0	100.0
0°-180°	47512.0	100.0

Coefficient of Utilization



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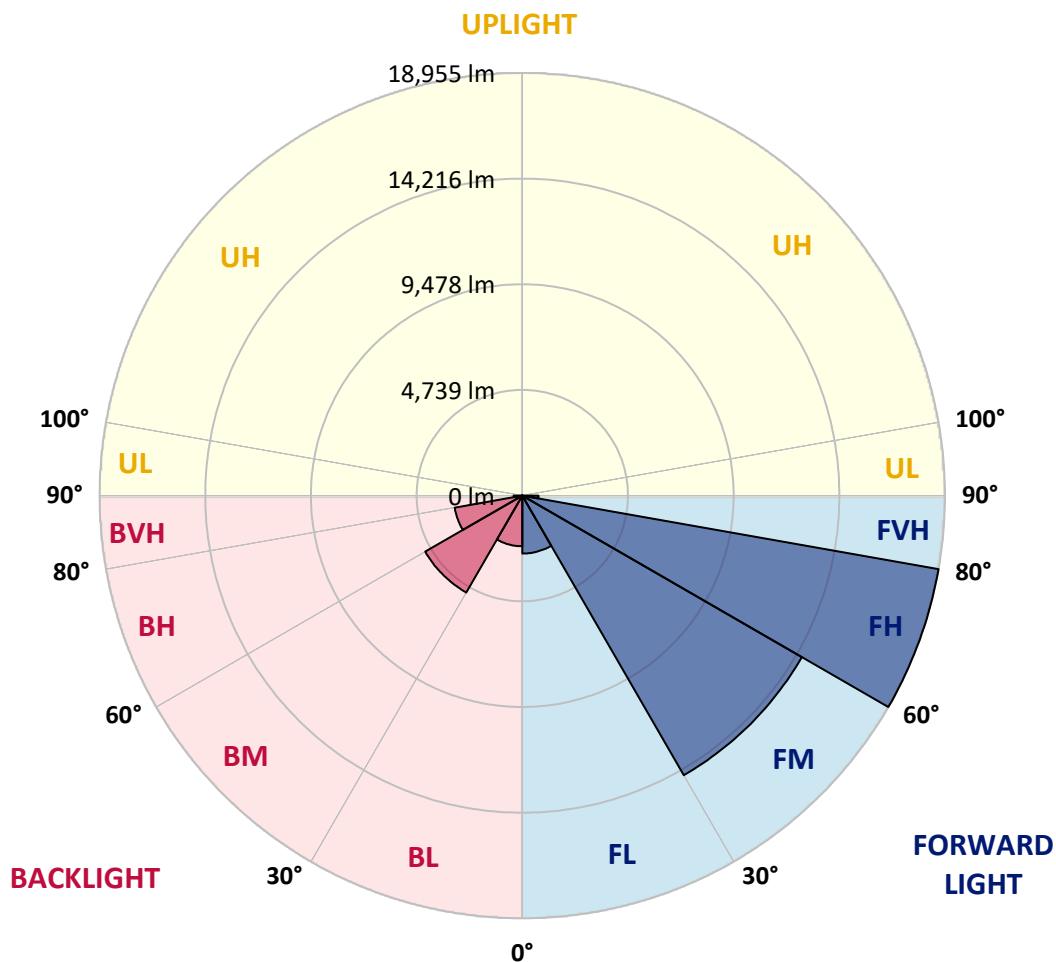
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2598.1	5.5			
FM	(30°-60°)	14476.0	30.5			
FH	(60°-80°)	18955.3	39.9			G5
FVH	(80°-90°)	724.9	1.5			G4/750
BL	(0°-30°)	2270.5	4.8	B3/2500		
BM	(30°-60°)	5022.6	10.6	B4/8500		
BH	(60°-80°)	3079.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	384.8	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°	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6
2.5°	5077.3	5059.5	5056.9	5018.8	4998.5	4960.3	4945.1	4909.5	4866.2	4823.0	4782.3
5°	5476.4	5476.4	5458.6	5405.2	5321.3	5234.9	5196.8	5128.1	5006.1	4906.9	4823.0
7.5°	5885.8	5890.9	5855.3	5776.4	5656.9	5517.1	5481.5	5379.8	5206.9	5062.0	4937.4
10°	6239.2	6239.2	6190.9	6084.1	5934.1	5781.5	5745.9	5631.5	5438.3	5257.8	5095.1
12.5°	6508.7	6508.7	6445.1	6305.3	6142.6	6005.3	5964.6	5855.3	5674.7	5473.9	5268.0
15°	6684.1	6671.4	6600.2	6442.6	6284.9	6165.4	6137.5	6045.9	5880.7	5677.3	5445.9
17.5°	6691.7	6686.6	6618.0	6485.8	6348.5	6267.1	6249.3	6188.3	6058.7	5865.4	5621.4
20°	6544.3	6554.4	6508.7	6414.6	6348.5	6312.9	6305.3	6284.9	6193.4	6012.9	5768.8
22.5°	6386.6	6404.4	6361.2	6310.4	6305.3	6340.9	6346.0	6351.0	6292.6	6117.1	5893.4
25°	6348.5	6361.2	6318.0	6272.2	6300.2	6394.3	6414.6	6434.9	6389.2	6241.7	6040.9
27.5°	6541.7	6531.5	6447.6	6348.5	6366.3	6493.4	6521.4	6544.3	6521.4	6394.3	6223.9
30°	7088.3	7055.3	6887.5	6597.7	6506.1	6595.1	6623.1	6686.6	6686.6	6592.6	6422.2
32.5°	8003.6	7940.1	7632.4	7062.9	6745.1	6691.7	6719.7	6823.9	6877.3	6803.6	6618.0
35°	9114.7	9048.6	8608.7	7843.5	7182.4	6885.0	6877.3	6994.3	7136.7	6971.4	6729.9
37.5°	10230.8	10162.2	9633.3	8774.0	7820.6	7291.7	7246.0	7286.7	7347.7	7045.1	6885.0
40°	11346.9	11265.6	10802.9	9813.9	8601.1	7830.7	7711.2	7528.2	7502.8	7286.7	7185.0
42.5°	12452.9	12379.2	12145.3	10980.8	9536.7	8357.0	8174.0	7858.7	7955.3	7825.7	7736.7
45°	13569.0	13574.1	13325.0	12290.2	10665.6	9328.2	9081.6	8588.4	8817.2	8768.9	8819.8
47.5°	14558.1	14545.3	14456.4	13561.4	12066.5	10579.1	10261.3	9689.3	10080.8	10258.8	10647.8
50°	15516.6	15508.9	15514.0	15003.0	13693.6	12066.5	11715.6	11115.6	11997.8	12615.6	13312.3
52.5°	16889.5	16932.7	16625.1	16490.3	15671.7	13823.3	13436.8	12816.5	14263.1	15236.9	16597.1
55°	18267.5	18231.9	17990.4	18130.2	17741.2	15903.0	15498.8	15005.5	16785.2	17850.5	19894.7
57.5°	19078.5	19091.2	19337.9	20021.8	20296.4	18496.3	18130.2	17748.8	19620.1	20375.2	22828.6
60°	19808.2	19866.7	20576.0	21867.6	22612.5	21682.0	21356.6	20985.4	22221.0	22521.0	25376.2
62.5°	20037.0	20217.5	21455.7	23388.0	24870.2	25277.0	24872.8	24054.1	24697.3	24580.4	27102.5
65°	18895.5	19142.1	21361.7	23957.5	26886.4	28689.0	28432.2	26911.8	26807.6	26103.3	27384.7
67.5°	15890.3	16136.9	18987.0	22762.5	27720.3	31643.3	31386.5	28996.6	28089.0	26245.7	25249.1
70°	11626.6	11781.7	14507.2	19165.0	26044.8	32634.9	32723.9	30013.6	27631.3	24310.9	20731.1
72.5°	6699.4	7042.6	8952.0	13482.6	21277.8	30128.0	30745.8	27898.3	24738.0	20281.1	14494.5
75°	2880.6	2888.2	4139.1	7436.7	14410.6	24216.8	24814.3	23126.1	19426.8	14024.1	7739.2
77.5°	1370.4	1395.8	1820.4	3320.4	7932.4	16731.9	18343.8	16337.8	12424.9	6737.5	2923.8
80°	889.9	907.7	1113.6	1647.5	3889.9	9702.0	10825.7	9424.9	5481.5	2407.7	1261.1
82.5°	539.0	544.1	744.9	1006.8	2140.7	4393.4	5179.0	4090.8	2339.1	1441.6	742.4
85°	328.0	330.5	452.6	622.9	1299.2	1517.8	1558.5	1545.8	1372.9	943.2	396.6
87.5°	157.6	162.7	233.9	294.9	511.0	470.4	444.9	516.1	648.3	508.5	170.3
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°	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6
2.5°	4764.5	4756.9	4739.1	4731.5	4726.4	4729.0	4726.4	4726.4	4729.0	4729.0	4729.0
5°	4787.4	4774.7	4746.8	4746.8	4762.0	4797.6	4830.7	4856.1	4884.0	4881.5	4881.5
7.5°	4886.6	4863.7	4830.7	4840.8	4879.0	4934.9	4993.4	5049.3	5105.2	5110.3	5107.8
10°	5031.5	5008.6	4973.0	4985.7	5046.8	5130.7	5204.4	5285.8	5346.8	5364.6	5359.5
12.5°	5196.8	5151.0	5120.5	5156.1	5252.7	5364.6	5435.8	5496.8	5540.0	5565.4	5555.2
15°	5364.6	5321.3	5285.8	5359.5	5476.4	5580.7	5616.3	5626.4	5634.1	5659.5	5654.4
17.5°	5527.3	5468.8	5456.1	5552.7	5664.6	5710.3	5690.0	5646.8	5613.7	5634.1	5631.5
20°	5672.2	5626.4	5621.4	5718.0	5761.2	5718.0	5631.5	5555.2	5496.8	5501.9	5499.3
22.5°	5809.5	5773.9	5779.0	5819.7	5751.0	5603.6	5461.2	5356.9	5293.4	5306.1	5313.7
25°	5962.0	5926.4	5939.2	5873.1	5646.8	5390.0	5184.1	5095.1	5069.6	5095.1	5112.9
27.5°	6160.4	6137.5	6129.8	5875.6	5461.2	5074.7	4840.8	4807.8	4830.7	4886.6	4914.6
30°	6373.9	6373.9	6333.2	5832.4	5206.9	4695.9	4492.5	4497.6	4576.4	4655.2	4683.2
32.5°	6579.9	6623.1	6496.0	5715.4	4879.0	4327.2	4172.2	4177.2	4245.9	4342.5	4367.9
35°	6750.2	6874.8	6635.8	5501.9	4492.5	4017.1	3900.1	3831.5	3834.0	3907.7	3928.1
37.5°	6984.1	7215.5	6717.1	5184.1	4080.6	3752.7	3620.4	3501.0	3422.1	3391.6	3391.6
40°	7390.9	7731.6	6737.5	4713.7	3691.6	3501.0	3312.8	3170.4	3017.9	2880.6	2855.2
42.5°	8079.9	8509.6	6696.8	4172.2	3340.8	3223.8	3040.8	2865.3	2654.3	2461.1	2445.8
45°	9300.3	9521.5	6587.5	3610.3	3028.1	2956.9	2778.9	2588.2	2364.5	2191.6	2178.9
47.5°	11255.4	10942.7	6442.6	3112.0	2743.3	2723.0	2585.7	2364.5	2140.7	2021.2	2008.5
50°	14110.6	13180.1	6422.2	2750.9	2514.5	2524.7	2412.8	2209.4	2013.6	1914.5	1899.2
52.5°	17548.0	15882.7	6557.0	2496.7	2313.6	2351.8	2295.8	2107.7	1934.8	1850.9	1835.6
55°	20883.7	18313.3	6638.3	2298.4	2125.5	2196.7	2204.3	2046.7	1889.0	1805.1	1795.0
57.5°	23591.4	20143.8	6277.3	2117.9	1962.8	2072.1	2128.0	2011.1	1866.2	1802.6	1792.4
60°	25475.3	21008.3	5250.2	1957.7	1843.3	1972.9	2100.1	2013.6	1922.1	1929.7	1934.8
62.5°	26075.4	20624.3	3938.3	1838.2	1761.9	1939.9	2145.8	2117.9	2023.8	2082.3	2092.4
65°	25081.3	19037.9	2855.2	1744.1	1690.7	1962.8	2283.1	2194.1	1988.2	2031.4	2031.4
67.5°	21753.2	16401.3	2222.1	1657.7	1609.4	2006.0	2420.4	2186.5	1904.3	1955.1	1909.4
70°	17255.6	12686.8	1850.9	1561.1	1522.9	1942.4	2433.1	2107.7	1805.1	1815.3	1728.9
72.5°	11451.2	8341.8	1591.6	1469.5	1390.7	1746.7	2328.9	2006.0	1708.5	1650.0	1563.6
75°	5611.2	4159.4	1388.2	1355.1	1217.8	1520.4	2186.5	1909.4	1604.3	1512.8	1464.5
77.5°	2173.8	1769.5	1184.8	1210.2	1060.2	1339.9	1998.4	1772.1	1467.0	1342.4	1304.3
80°	1055.1	1004.3	971.2	1009.4	872.1	1141.6	1825.5	1652.6	1339.9	1202.6	1146.6
82.5°	656.0	620.4	744.9	785.6	671.2	1042.4	1731.4	1550.9	1179.7	996.6	950.9
85°	333.1	355.9	498.3	536.5	480.5	828.8	1426.3	1164.4	851.7	706.8	711.9
87.5°	127.1	170.3	261.9	282.2	256.8	437.3	785.6	678.8	546.6	371.2	343.2
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)