

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: P522911

Luminaire Tested: **GALN-SA9B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522911
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-SA9B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43172 lumens
Efficiency: N/A
Efficacy: 118.6 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

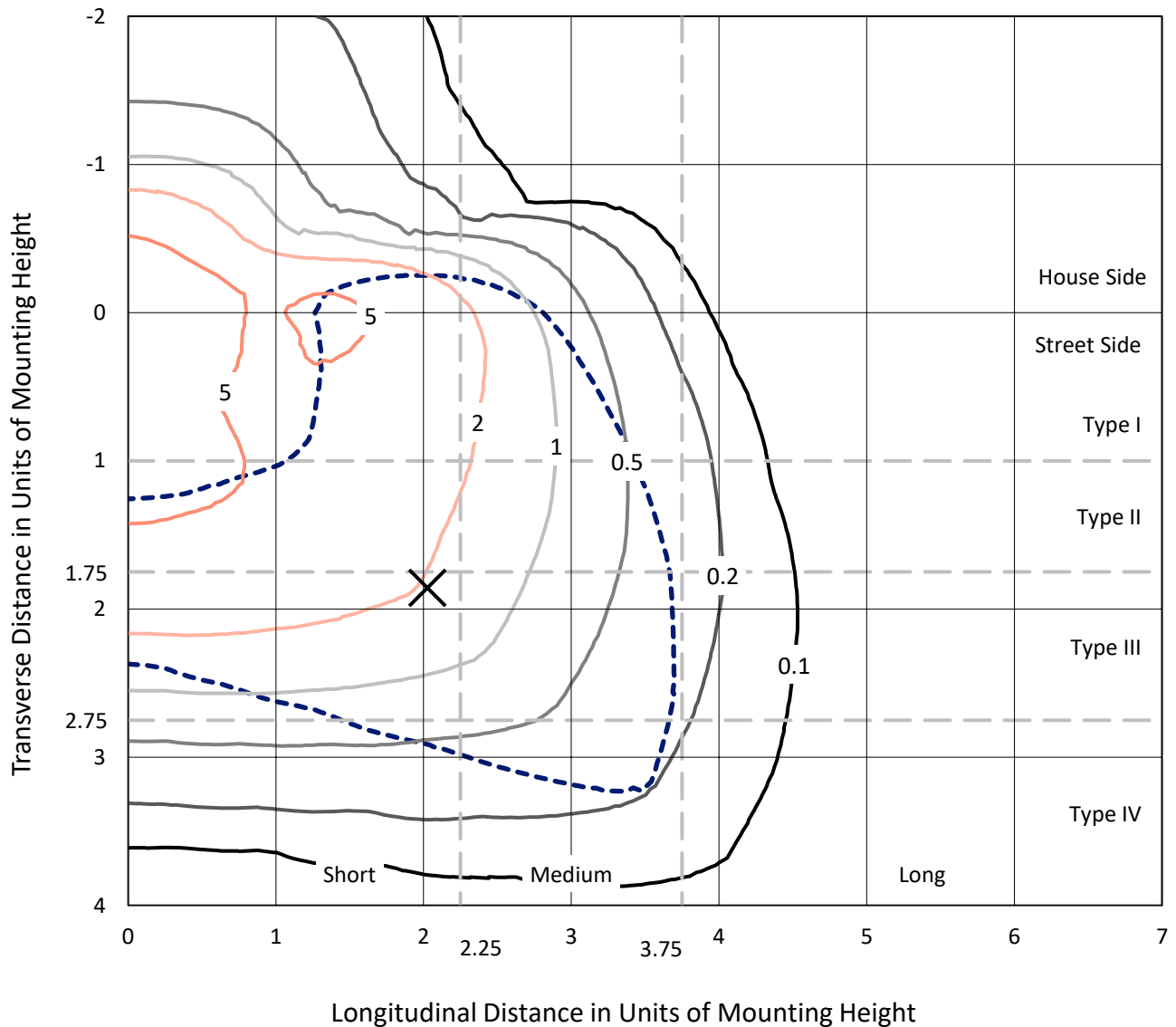
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

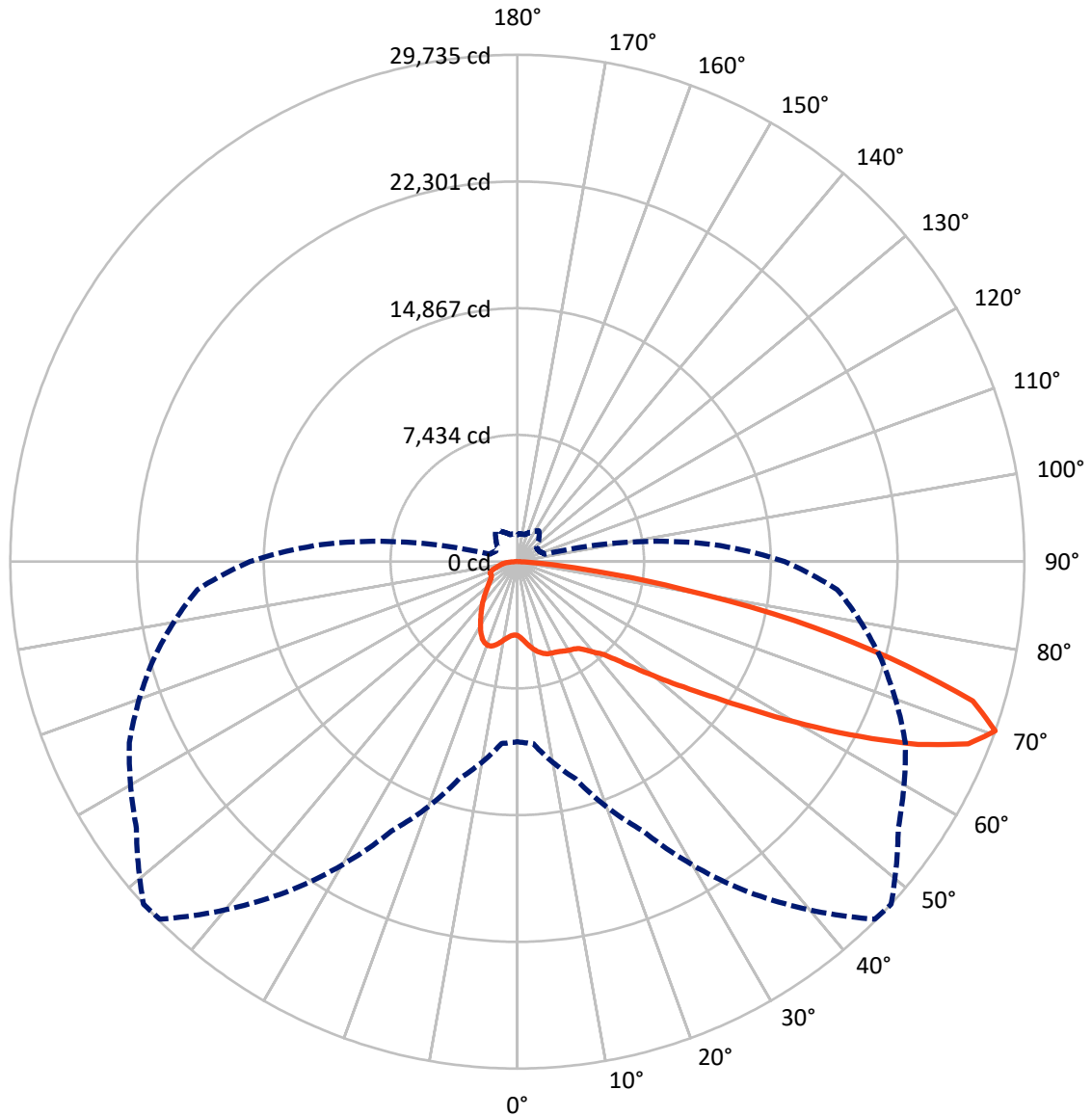
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	9775.0	0.0	9775.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33397.0	0.0	33397.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	43172.0	0.0	43172.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.7	1.0
10°-20°	1493.5	3.5
20°-30°	2483.6	5.8
30°-40°	3520.2	8.2
40°-50°	5196.6	12.0
50°-60°	9000.7	20.8
60°-70°	12713.7	29.4
70°-80°	7308.5	16.9
80°-90°	1008.4	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°	43172.0	100.0
0°-180°	43172.0	100.0



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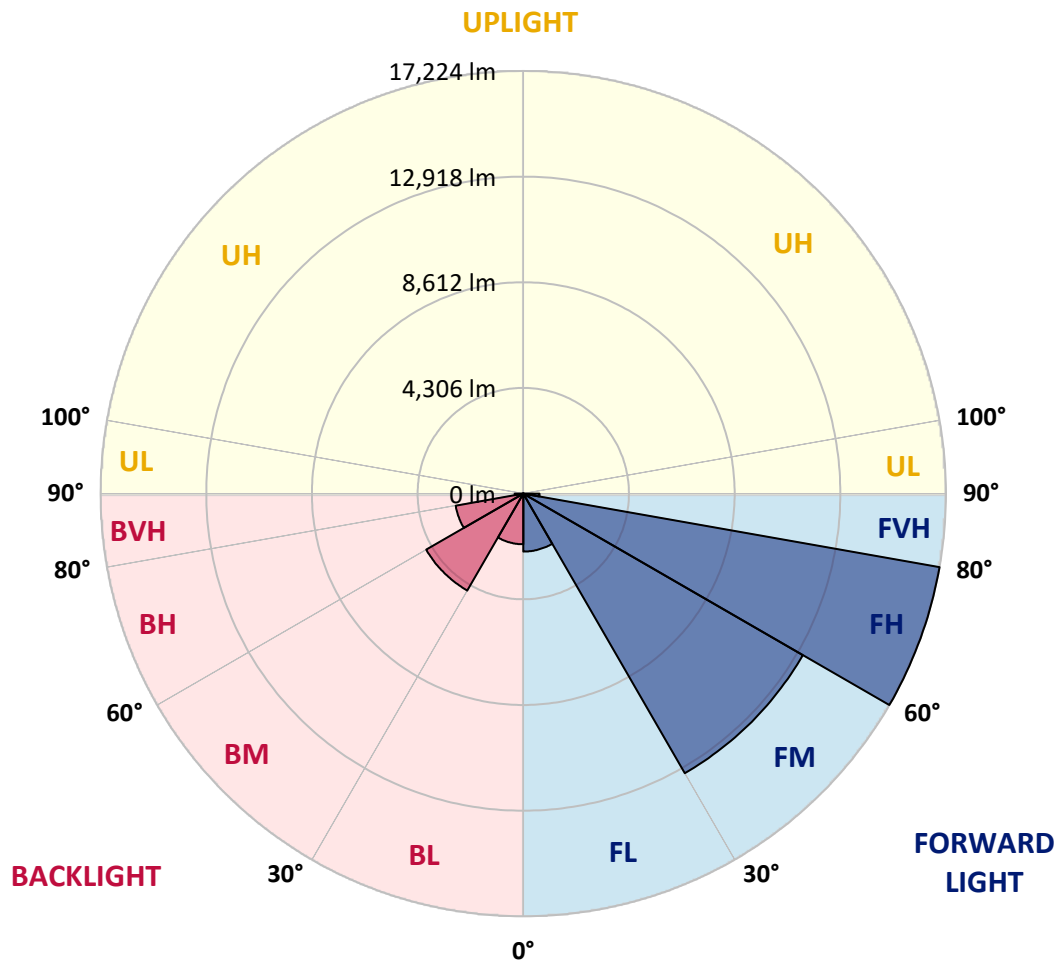
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.8	5.5			
FM (30°-60°)	13153.7	30.5			
FH (60°-80°)	17223.8	39.9			G5
FVH (80°-90°)	658.7	1.5			G4/750
BL (0°-30°)	2063.1	4.8	B3/2500		
BM (30°-60°)	4563.8	10.6	B3/5000		
BH (60°-80°)	2798.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	349.7	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°	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9
2.5°	4613.5	4597.3	4595.0	4560.3	4541.9	4507.2	4493.4	4461.0	4421.7	4382.5	4345.5
5°	4976.2	4976.2	4960.0	4911.5	4835.3	4756.7	4722.1	4659.7	4548.8	4458.7	4382.5
7.5°	5348.1	5352.8	5320.4	5248.8	5140.2	5013.2	4980.8	4888.4	4731.3	4599.6	4486.4
10°	5669.2	5669.2	5625.4	5528.3	5392.0	5253.4	5221.1	5117.1	4941.5	4777.5	4629.7
12.5°	5914.1	5914.1	5856.4	5729.3	5581.5	5456.7	5419.7	5320.4	5156.4	4973.9	4786.8
15°	6073.5	6062.0	5997.3	5854.1	5710.8	5602.3	5576.8	5493.7	5343.5	5158.7	4948.5
17.5°	6080.5	6075.8	6013.5	5893.3	5768.6	5694.7	5678.5	5623.0	5505.2	5329.6	5107.9
20°	5946.5	5955.7	5914.1	5828.7	5768.6	5736.2	5729.3	5710.8	5627.7	5463.6	5241.9
22.5°	5803.2	5819.4	5780.1	5733.9	5729.3	5761.7	5766.3	5770.9	5717.8	5558.4	5355.1
25°	5768.6	5780.1	5740.9	5699.3	5724.7	5810.2	5828.7	5847.1	5805.6	5671.6	5489.1
27.5°	5944.2	5934.9	5858.7	5768.6	5784.8	5900.3	5925.7	5946.5	5925.7	5810.2	5655.4
30°	6440.9	6410.8	6258.4	5995.0	5911.8	5992.7	6018.1	6075.8	6075.8	5990.4	5835.6
32.5°	7272.5	7214.8	6935.2	6417.8	6129.0	6080.5	6105.9	6200.6	6249.1	6182.1	6013.5
35°	8282.1	8222.0	7822.4	7127.0	6526.3	6256.0	6249.1	6355.4	6484.8	6334.6	6115.1
37.5°	9296.3	9233.9	8753.4	7972.5	7106.2	6625.7	6584.1	6621.1	6676.5	6401.6	6256.0
40°	10310.5	10236.5	9816.1	8917.4	7815.4	7115.4	7006.9	6840.5	6817.4	6621.1	6528.6
42.5°	11315.4	11248.4	11035.9	9977.8	8665.6	7593.7	7427.3	7140.9	7228.6	7110.8	7030.0
45°	12329.6	12334.2	12107.8	11167.5	9691.3	8476.2	8252.1	7803.9	8011.8	7967.9	8014.1
47.5°	13228.2	13216.7	13135.8	12322.6	10964.2	9612.8	9324.0	8804.2	9160.0	9321.7	9675.1
50°	14099.2	14092.3	14096.9	13632.5	12442.8	10964.2	10645.4	10100.2	10901.9	11463.2	12096.2
52.5°	15346.7	15386.0	15106.4	14984.0	14240.1	12560.6	12209.4	11645.8	12960.3	13845.1	15081.0
55°	16598.8	16566.5	16347.0	16474.1	16120.6	14450.3	14083.0	13634.8	15252.0	16220.0	18077.4
57.5°	17335.8	17347.3	17571.4	18192.9	18442.4	16806.8	16474.1	16127.6	17827.9	18514.0	20743.4
60°	17998.8	18052.0	18696.5	19870.1	20547.0	19701.4	19405.7	19068.5	20191.2	20463.8	23058.2
62.5°	18206.7	18370.8	19495.8	21251.6	22598.5	22968.1	22600.8	21856.9	22441.4	22335.1	24626.8
65°	17169.5	17393.6	19410.4	21769.1	24430.4	26068.4	25835.1	24453.5	24358.8	23718.9	24883.2
67.5°	14438.8	14662.9	17252.6	20683.3	25188.2	28752.8	28519.5	26347.9	25523.2	23848.3	22942.7
70°	10564.6	10705.5	13182.0	17414.3	23665.8	29653.8	29734.7	27272.0	25107.3	22090.2	18837.4
72.5°	6087.4	6399.3	8134.2	12251.0	19334.1	27376.0	27937.3	25349.9	22478.3	18428.5	13170.5
75°	2617.5	2624.4	3761.0	6757.4	13094.3	22004.7	22547.6	21013.6	17652.3	12743.1	7032.3
77.5°	1245.2	1268.3	1654.1	3017.1	7207.8	15203.5	16668.1	14845.4	11290.0	6122.0	2656.7
80°	808.6	824.7	1011.9	1497.0	3534.6	8815.8	9836.9	8563.9	4980.8	2187.8	1145.9
82.5°	489.8	494.4	676.9	914.8	1945.2	3992.0	4705.9	3717.1	2125.4	1309.9	674.6
85°	298.0	300.3	411.2	566.0	1180.5	1379.2	1416.2	1404.6	1247.5	857.1	360.4
87.5°	143.2	147.9	212.5	268.0	464.4	427.4	404.3	469.0	589.1	462.0	154.8
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°	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9	4333.9
2.5°	4329.3	4322.4	4306.2	4299.3	4294.7	4297.0	4294.7	4294.7	4297.0	4297.0	4297.0
5°	4350.1	4338.6	4313.2	4313.2	4327.0	4359.4	4389.4	4412.5	4437.9	4435.6	4435.6
7.5°	4440.2	4419.4	4389.4	4398.6	4433.3	4484.1	4537.2	4588.1	4638.9	4643.5	4641.2
10°	4571.9	4551.1	4518.8	4530.3	4585.8	4662.0	4729.0	4802.9	4858.4	4874.5	4869.9
12.5°	4722.1	4680.5	4652.8	4685.1	4772.9	4874.5	4939.2	4994.7	5033.9	5057.0	5047.8
15°	4874.5	4835.3	4802.9	4869.9	4976.2	5070.9	5103.2	5112.5	5119.4	5142.5	5137.9
17.5°	5022.4	4969.3	4957.7	5045.5	5147.1	5188.7	5170.2	5131.0	5100.9	5119.4	5117.1
20°	5154.1	5112.5	5107.9	5195.7	5234.9	5195.7	5117.1	5047.8	4994.7	4999.3	4997.0
22.5°	5278.8	5246.5	5251.1	5288.1	5225.7	5091.7	4962.3	4867.6	4809.9	4821.4	4828.3
25°	5417.4	5385.1	5396.6	5336.6	5131.0	4897.6	4710.5	4629.7	4606.6	4629.7	4645.8
27.5°	5597.6	5576.8	5569.9	5338.9	4962.3	4611.2	4398.6	4368.6	4389.4	4440.2	4465.6
30°	5791.7	5791.7	5754.7	5299.6	4731.3	4267.0	4082.1	4086.8	4158.4	4230.0	4255.4
32.5°	5978.8	6018.1	5902.6	5193.3	4433.3	3932.0	3791.1	3795.7	3858.0	3945.8	3968.9
35°	6133.6	6246.8	6029.6	4999.3	4082.1	3650.1	3543.9	3481.5	3483.8	3550.8	3569.3
37.5°	6346.1	6556.4	6103.6	4710.5	3707.9	3409.9	3289.7	3181.2	3109.5	3081.8	3081.8
40°	6715.8	7025.3	6122.0	4283.1	3354.4	3181.2	3010.2	2880.8	2742.2	2617.5	2594.4
42.5°	7341.8	7732.3	6085.1	3791.1	3035.6	2929.3	2763.0	2603.6	2411.9	2236.3	2222.4
45°	8450.7	8651.7	5985.7	3280.5	2751.5	2686.8	2525.1	2351.8	2148.5	1991.4	1979.8
47.5°	10227.3	9943.1	5854.1	2827.7	2492.7	2474.2	2349.5	2148.5	1945.2	1836.6	1825.1
50°	12821.7	11976.1	5835.6	2499.6	2284.8	2294.0	2192.4	2007.6	1829.7	1739.6	1725.7
52.5°	15945.1	14431.9	5958.0	2268.6	2102.3	2136.9	2086.1	1915.2	1758.1	1681.8	1668.0
55°	18976.0	16640.4	6032.0	2088.4	1931.3	1996.0	2002.9	1859.7	1716.5	1640.2	1631.0
57.5°	21436.4	18303.8	5703.9	1924.4	1783.5	1882.8	1933.6	1827.4	1695.7	1637.9	1628.7
60°	23148.3	19089.2	4770.6	1778.9	1674.9	1792.7	1908.2	1829.7	1746.5	1753.4	1758.1
62.5°	23693.5	18740.4	3578.5	1670.3	1601.0	1762.7	1949.8	1924.4	1838.9	1892.1	1901.3
65°	22790.2	17298.8	2594.4	1584.8	1536.3	1783.5	2074.6	1993.7	1806.6	1845.9	1845.9
67.5°	19766.1	14903.1	2019.1	1506.3	1462.4	1822.8	2199.3	1986.8	1730.3	1776.5	1735.0
70°	15679.4	11527.9	1681.8	1418.5	1383.8	1765.0	2210.9	1915.2	1640.2	1649.5	1570.9
72.5°	10405.2	7579.8	1446.2	1335.3	1263.7	1587.1	2116.2	1822.8	1552.5	1499.3	1420.8
75°	5098.6	3779.5	1261.4	1231.3	1106.6	1381.5	1986.8	1735.0	1457.7	1374.6	1330.7
77.5°	1975.2	1607.9	1076.6	1099.7	963.4	1217.5	1815.8	1610.2	1333.0	1219.8	1185.1
80°	958.7	912.5	882.5	917.2	792.4	1037.3	1658.7	1501.6	1217.5	1092.7	1041.9
82.5°	596.0	563.7	676.9	713.9	609.9	947.2	1573.3	1409.2	1071.9	905.6	864.0
85°	302.6	323.4	452.8	487.5	436.6	753.1	1296.0	1058.1	773.9	642.2	646.9
87.5°	115.5	154.8	238.0	256.4	233.3	397.4	713.9	616.8	496.7	337.3	311.9
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)