

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: P522876

Luminaire Tested: **GALN-SA8B-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522876
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-SA8B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 41876 lumens
Efficiency: N/A
Efficacy: 128.8 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

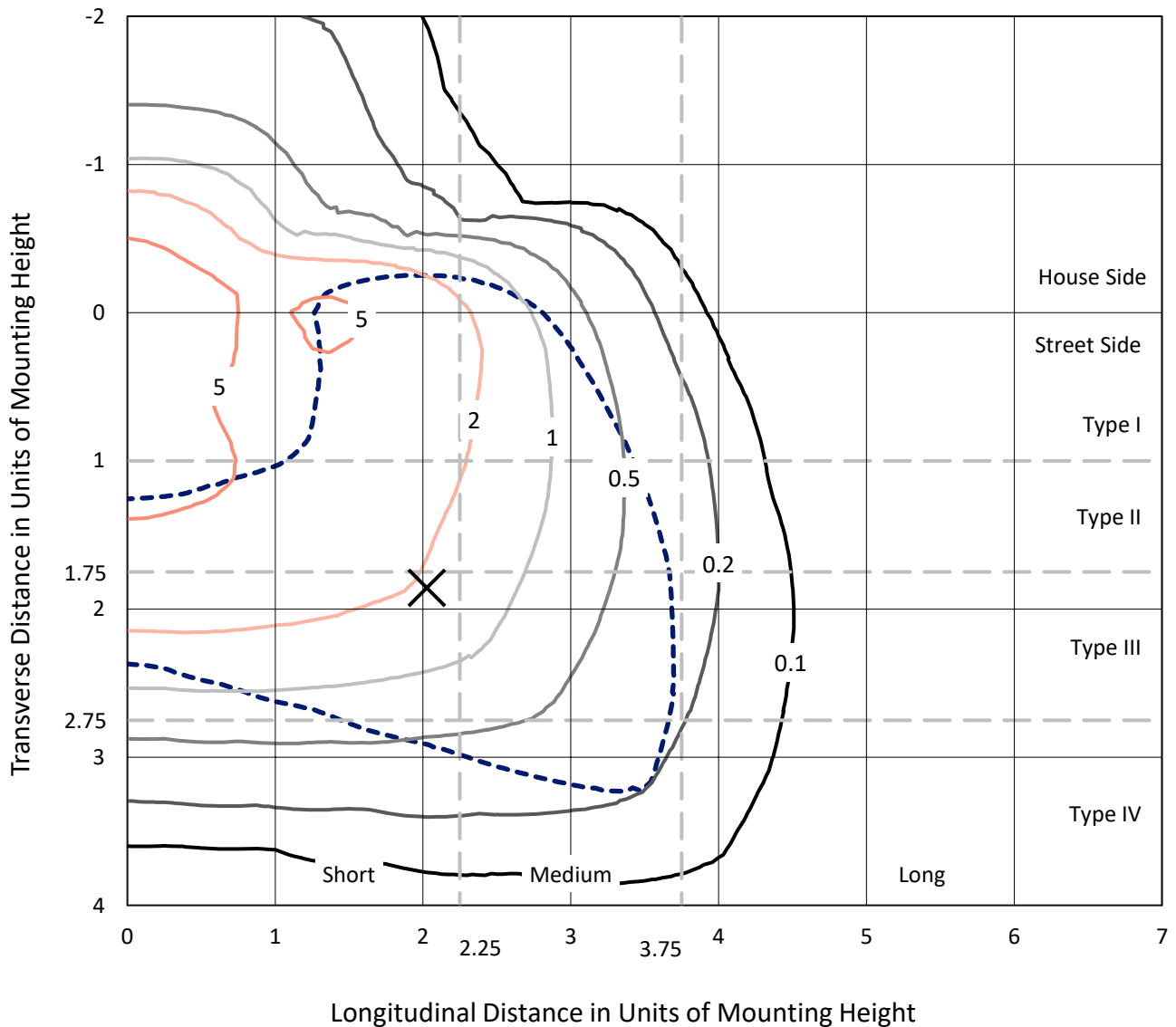
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

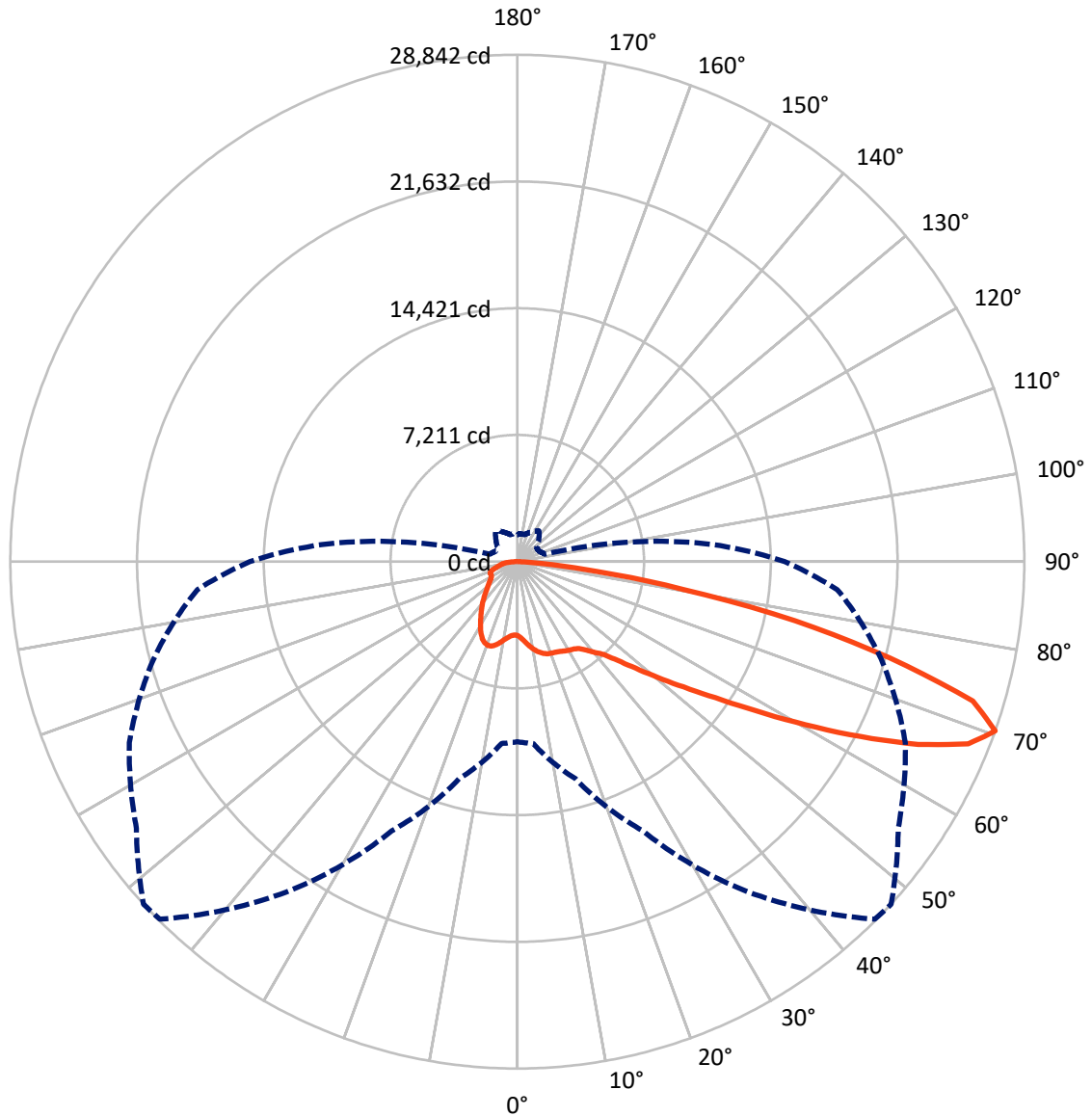
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	9481.5	0.0	9481.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32394.5	0.0	32394.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	41876.0	0.0	41876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.3	1.0
10°-20°	1448.7	3.5
20°-30°	2409.1	5.8
30°-40°	3414.5	8.2
40°-50°	5040.6	12.0
50°-60°	8730.5	20.8
60°-70°	12332.1	29.4
70°-80°	7089.1	16.9
80°-90°	978.1	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°	41876.0	100.0
0°-180°	41876.0	100.0

Coefficient of Utilization



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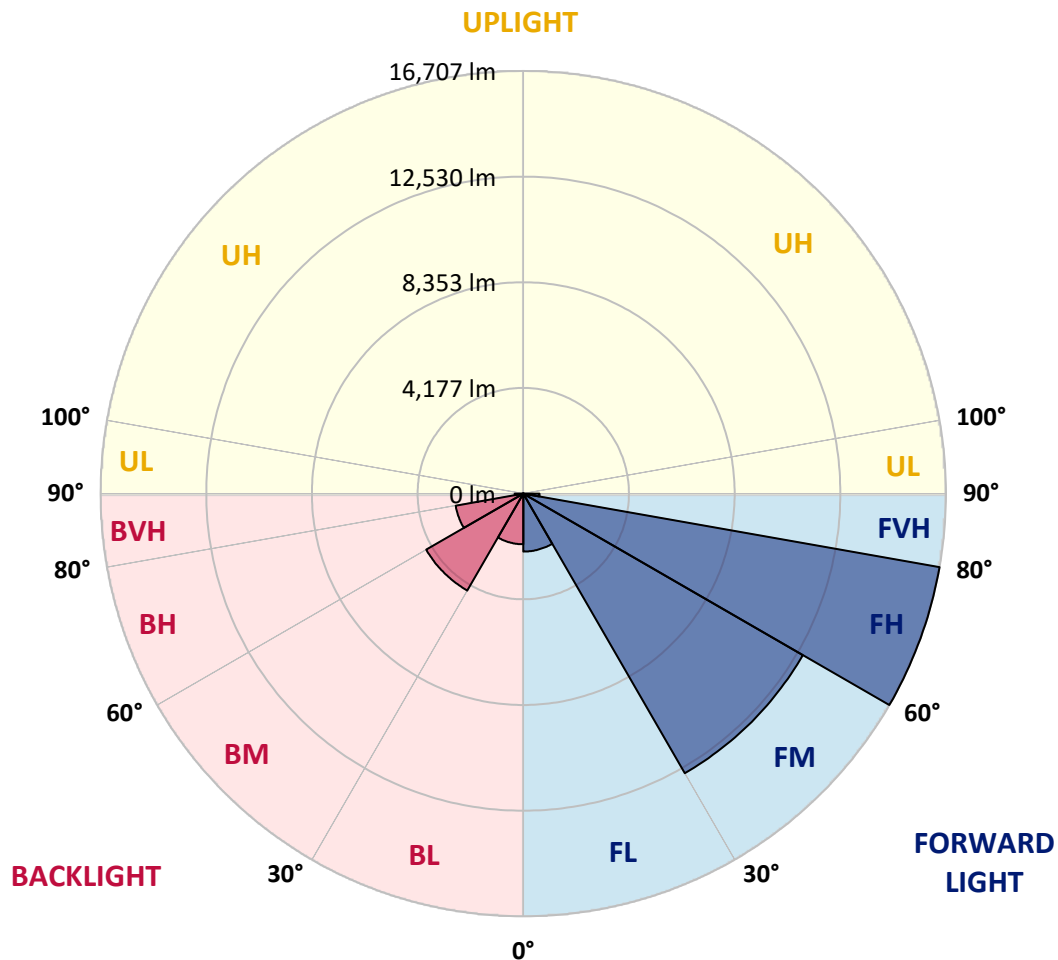
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2289.9	5.5			
FM	(30°-60°)	12758.8	30.5			
FH	(60°-80°)	16706.8	39.9			G5
FVH	(80°-90°)	638.9	1.5			G4/750
BL	(0°-30°)	2001.1	4.8	B3/2500		
BM	(30°-60°)	4426.8	10.6	B3/5000		
BH	(60°-80°)	2714.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	339.2	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°	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8
2.5°	4475.0	4459.3	4457.1	4423.5	4405.5	4371.9	4358.5	4327.1	4289.0	4250.9	4215.1
5°	4826.8	4826.8	4811.1	4764.1	4690.1	4613.9	4580.3	4519.8	4412.2	4324.9	4250.9
7.5°	5187.6	5192.1	5160.7	5091.2	4985.9	4862.7	4831.3	4741.7	4589.3	4461.5	4351.7
10°	5499.1	5499.1	5456.5	5362.4	5230.2	5095.7	5064.3	4963.5	4793.2	4634.1	4490.7
12.5°	5736.6	5736.6	5680.6	5557.3	5413.9	5292.9	5257.0	5160.7	5001.6	4824.6	4643.1
15°	5891.2	5880.0	5817.3	5678.3	5539.4	5434.1	5409.4	5328.8	5183.1	5003.8	4799.9
17.5°	5897.9	5893.5	5832.9	5716.4	5595.4	5523.7	5508.0	5454.2	5340.0	5169.7	4954.5
20°	5768.0	5776.9	5736.6	5653.7	5595.4	5564.0	5557.3	5539.4	5458.7	5299.6	5084.5
22.5°	5629.0	5644.7	5606.6	5561.8	5557.3	5588.7	5593.2	5597.7	5546.1	5391.5	5194.3
25°	5595.4	5606.6	5568.5	5528.2	5552.8	5635.8	5653.7	5671.6	5631.3	5501.3	5324.3
27.5°	5765.7	5756.8	5682.8	5595.4	5611.1	5723.1	5747.8	5768.0	5747.8	5635.8	5485.6
30°	6247.5	6218.4	6070.5	5815.0	5734.4	5812.8	5837.4	5893.5	5893.5	5810.5	5660.4
32.5°	7054.2	6998.2	6727.1	6225.1	5945.0	5897.9	5922.6	6014.5	6061.5	5996.5	5832.9
35°	8033.5	7975.2	7587.5	6913.0	6330.4	6068.2	6061.5	6164.6	6290.1	6144.4	5931.5
37.5°	9017.2	8956.7	8490.6	7733.2	6892.9	6426.8	6386.4	6422.3	6476.1	6209.4	6068.2
40°	10000.9	9929.2	9521.4	8649.7	7580.8	6901.8	6796.5	6635.2	6612.8	6422.3	6332.7
42.5°	10975.7	10910.7	10704.6	9678.3	8405.5	7365.7	7204.4	6926.5	7011.6	6897.4	6818.9
45°	11959.5	11963.9	11744.3	10832.3	9400.4	8221.7	8004.3	7569.6	7771.3	7728.7	7773.5
47.5°	12831.1	12819.9	12741.5	11952.7	10635.1	9324.2	9044.1	8539.9	8885.0	9041.9	9384.7
50°	13675.9	13669.2	13673.7	13223.3	12069.3	10635.1	10325.9	9797.0	10574.6	11119.1	11733.1
52.5°	14886.0	14924.1	14653.0	14534.2	13812.6	12183.5	11842.9	11296.2	12571.2	13429.5	14628.3
55°	16100.6	16069.2	15856.3	15979.5	15636.7	14016.6	13660.3	13225.5	14794.1	15733.1	17534.7
57.5°	16815.4	16826.6	17044.0	17646.7	17888.8	16302.2	15979.5	15643.4	17292.7	17958.2	20120.6
60°	17458.5	17510.1	18135.3	19273.6	19930.2	19110.0	18823.2	18496.0	19585.1	19849.5	22366.0
62.5°	17660.2	17819.3	18910.6	20613.6	21920.1	22278.6	21922.3	21200.7	21767.7	21664.6	23887.5
65°	16654.0	16871.4	18827.7	21115.6	23697.1	25285.8	25059.5	23719.5	23627.6	23006.9	24136.3
67.5°	14005.4	14222.7	16734.7	20062.4	24432.1	27889.7	27663.4	25557.0	24757.0	23132.4	22253.9
70°	10247.4	10384.1	12786.3	16891.6	22955.3	28763.6	28842.1	26453.3	24353.6	21427.1	18271.9
72.5°	5904.7	6207.2	7890.1	11883.3	18753.7	26554.1	27098.7	24588.9	21803.5	17875.3	12775.1
75°	2538.9	2545.6	3648.1	6554.5	12701.2	21344.2	21870.8	20382.8	17122.4	12360.6	6821.2
77.5°	1207.8	1230.2	1604.5	2926.6	6991.5	14747.1	16167.8	14399.7	10951.1	5938.3	2577.0
80°	784.3	800.0	981.5	1452.1	3428.5	8551.1	9541.6	8306.9	4831.3	2122.1	1111.5
82.5°	475.1	479.5	656.6	887.4	1886.8	3872.2	4564.6	3605.5	2061.6	1270.6	654.3
85°	289.1	291.3	398.9	549.0	1145.1	1337.8	1373.6	1362.4	1210.1	831.4	349.6
87.5°	138.9	143.4	206.2	259.9	450.4	414.6	392.1	454.9	571.4	448.2	150.1
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°	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8	4203.8
2.5°	4199.4	4192.6	4177.0	4170.2	4165.8	4168.0	4165.8	4165.8	4168.0	4168.0	4168.0
5°	4219.5	4208.3	4183.7	4183.7	4197.1	4228.5	4257.6	4280.0	4304.7	4302.4	4302.4
7.5°	4306.9	4286.8	4257.6	4266.6	4300.2	4349.5	4401.0	4450.3	4499.6	4504.1	4501.9
10°	4434.7	4414.5	4383.1	4394.3	4448.1	4522.0	4587.0	4658.7	4712.5	4728.2	4723.7
12.5°	4580.3	4540.0	4513.1	4544.5	4629.6	4728.2	4791.0	4844.7	4882.8	4905.2	4896.3
15°	4728.2	4690.1	4658.7	4723.7	4826.8	4918.7	4950.1	4959.0	4965.7	4988.1	4983.7
17.5°	4871.6	4820.1	4808.9	4894.0	4992.6	5033.0	5015.0	4976.9	4947.8	4965.7	4963.5
20°	4999.4	4959.0	4954.5	5039.7	5077.8	5039.7	4963.5	4896.3	4844.7	4849.2	4847.0
22.5°	5120.4	5089.0	5093.5	5129.3	5068.8	4938.8	4813.4	4721.5	4665.5	4676.7	4683.4
25°	5254.8	5223.4	5234.6	5176.4	4976.9	4750.6	4569.1	4490.7	4468.3	4490.7	4506.4
27.5°	5429.6	5409.4	5402.7	5178.6	4813.4	4472.7	4266.6	4237.5	4257.6	4306.9	4331.6
30°	5617.8	5617.8	5582.0	5140.5	4589.3	4138.9	3959.6	3964.1	4033.5	4103.0	4127.7
32.5°	5799.3	5837.4	5725.4	5037.4	4300.2	3813.9	3677.2	3681.7	3742.2	3827.4	3849.8
35°	5949.5	6059.3	5848.6	4849.2	3959.6	3540.6	3437.5	3377.0	3379.2	3444.2	3462.1
37.5°	6155.6	6359.6	5920.3	4569.1	3596.6	3307.5	3191.0	3085.7	3016.2	2989.3	2989.3
40°	6514.2	6814.4	5938.3	4154.5	3253.7	3085.7	2919.8	2794.3	2659.9	2538.9	2516.5
42.5°	7121.4	7500.1	5902.4	3677.2	2944.5	2841.4	2680.1	2525.4	2339.5	2169.1	2155.7
45°	8197.1	8392.0	5806.1	3182.0	2668.9	2606.1	2449.3	2281.2	2084.0	1931.6	1920.4
47.5°	9920.3	9644.6	5678.3	2742.8	2417.9	2400.0	2279.0	2084.0	1886.8	1781.5	1770.3
50°	12436.8	11616.6	5660.4	2424.6	2216.2	2225.2	2126.6	1947.3	1774.8	1687.4	1673.9
52.5°	15466.4	13998.6	5779.2	2200.5	2039.2	2072.8	2023.5	1857.7	1705.3	1631.3	1617.9
55°	18406.4	16140.9	5850.9	2025.7	1873.4	1936.1	1942.8	1803.9	1665.0	1591.0	1582.0
57.5°	20792.9	17754.3	5532.7	1866.6	1729.9	1826.3	1875.6	1772.5	1644.8	1588.8	1579.8
60°	22453.4	18516.2	4627.4	1725.5	1624.6	1738.9	1850.9	1774.8	1694.1	1700.8	1705.3
62.5°	22982.2	18177.8	3471.1	1620.1	1552.9	1709.8	1891.3	1866.6	1783.7	1835.3	1844.2
65°	22106.0	16779.5	2516.5	1537.2	1490.2	1729.9	2012.3	1933.9	1752.3	1790.4	1790.4
67.5°	19172.8	14455.8	1958.5	1461.0	1418.5	1768.0	2133.3	1927.1	1678.4	1723.2	1682.9
70°	15208.7	11181.9	1631.3	1375.9	1342.3	1712.0	2144.5	1857.7	1591.0	1600.0	1523.8
72.5°	10092.8	7352.2	1402.8	1295.2	1225.7	1539.5	2052.6	1768.0	1505.9	1454.3	1378.1
75°	4945.6	3666.0	1223.5	1194.4	1073.4	1340.0	1927.1	1682.9	1414.0	1333.3	1290.7
77.5°	1915.9	1559.6	1044.2	1066.6	934.4	1180.9	1761.3	1561.9	1293.0	1183.2	1149.6
80°	930.0	885.1	856.0	889.6	768.6	1006.1	1608.9	1456.6	1180.9	1059.9	1010.6
82.5°	578.1	546.8	656.6	692.4	591.6	918.8	1526.0	1366.9	1039.8	878.4	838.1
85°	293.6	313.7	439.2	472.8	423.5	730.5	1257.1	1026.3	750.7	623.0	627.4
87.5°	112.0	150.1	230.8	248.7	226.3	385.4	692.4	598.3	481.8	327.2	302.5
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)