

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: P522752

Luminaire Tested: **GALN-SA4D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522752
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-SA4D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 30625 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

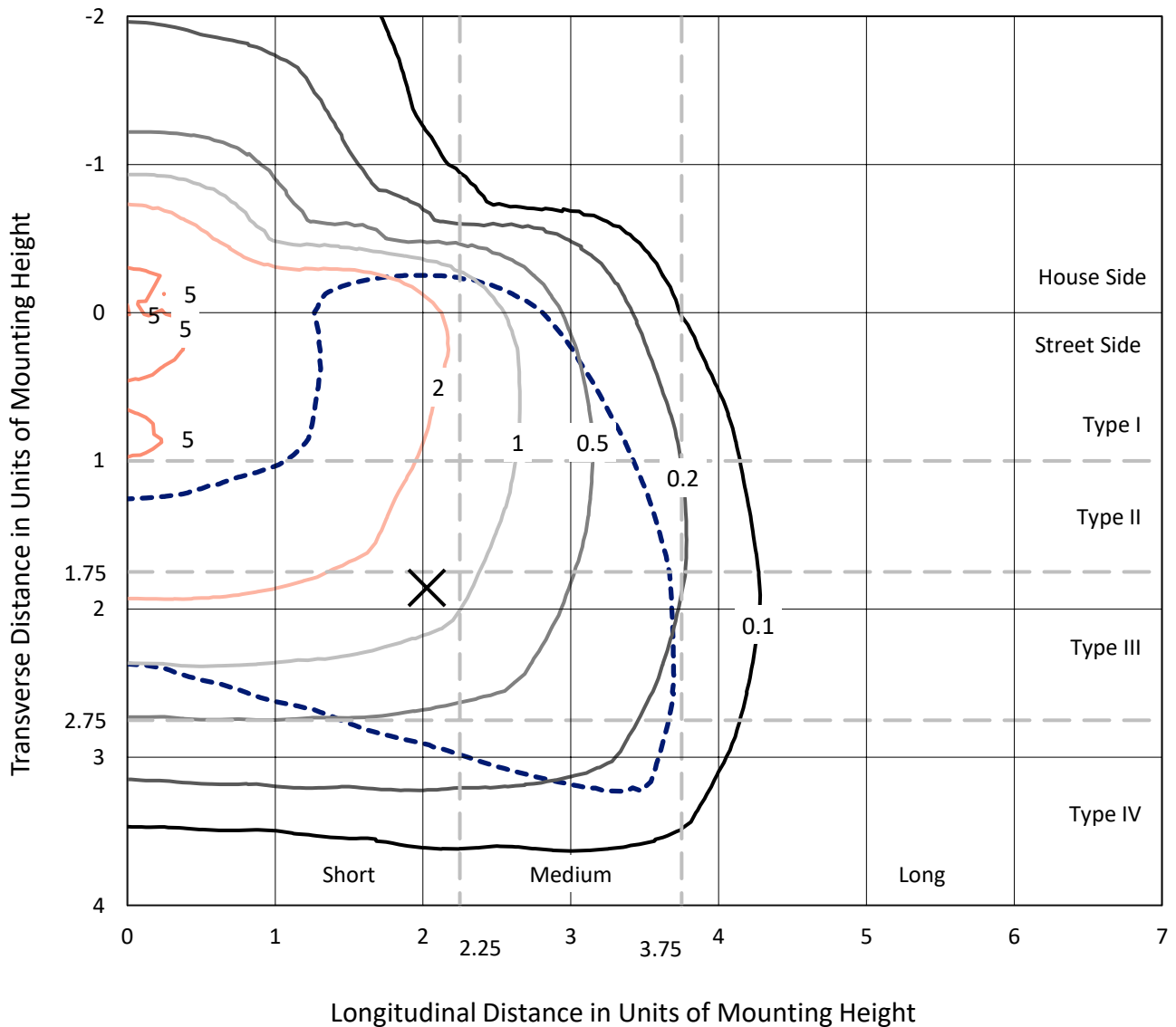
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

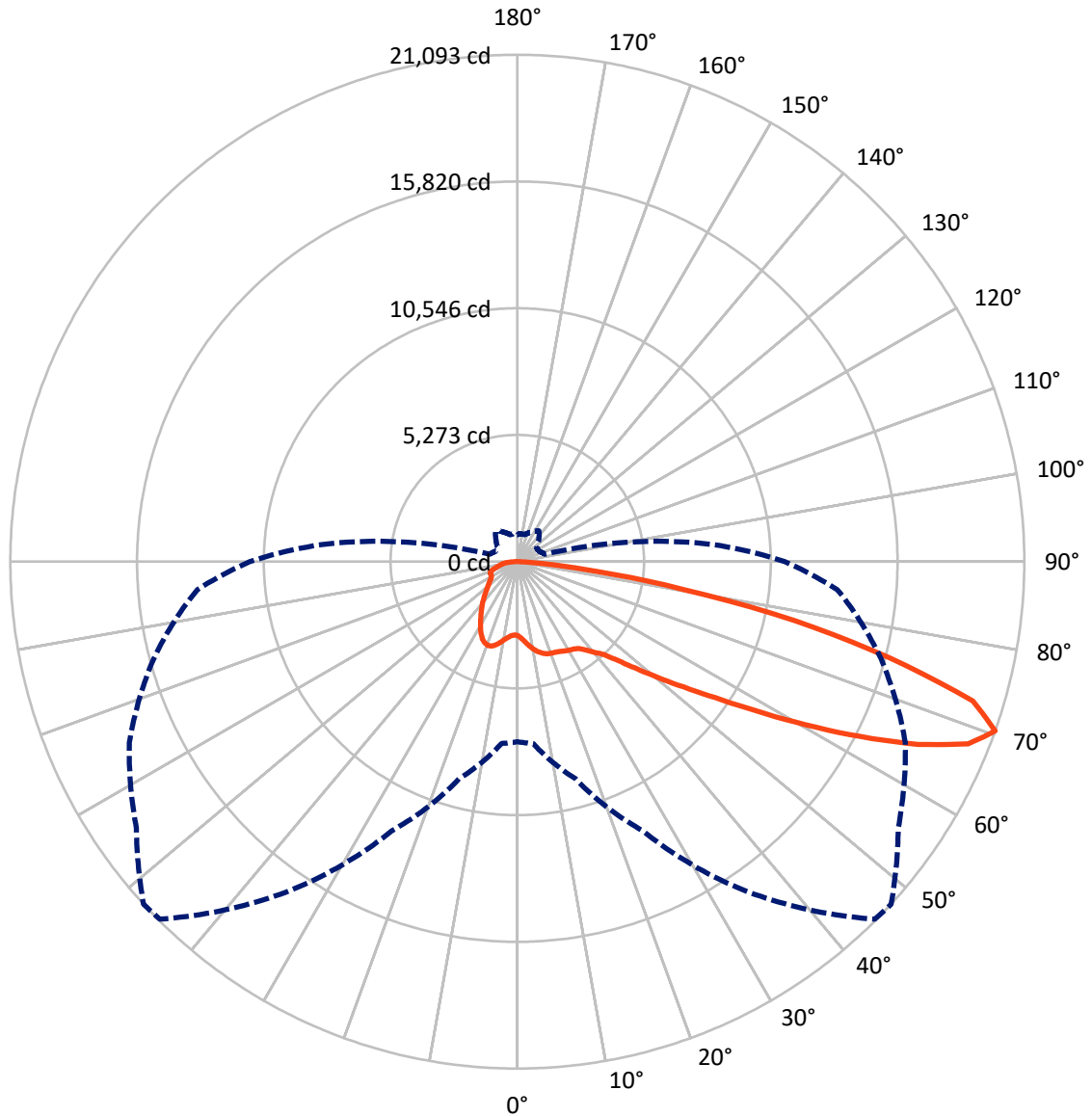
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	6934.1	0.0	6934.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23690.9	0.0	23690.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	30625.0	0.0	30625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.0
10°-20°	1059.4	3.5
20°-30°	1761.8	5.8
30°-40°	2497.1	8.2
40°-50°	3686.3	12.0
50°-60°	6384.8	20.8
60°-70°	9018.8	29.4
70°-80°	5184.5	16.9
80°-90°	715.3	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°	30625.0	100.0
0°-180°	30625.0	100.0

Coefficient of Utilization



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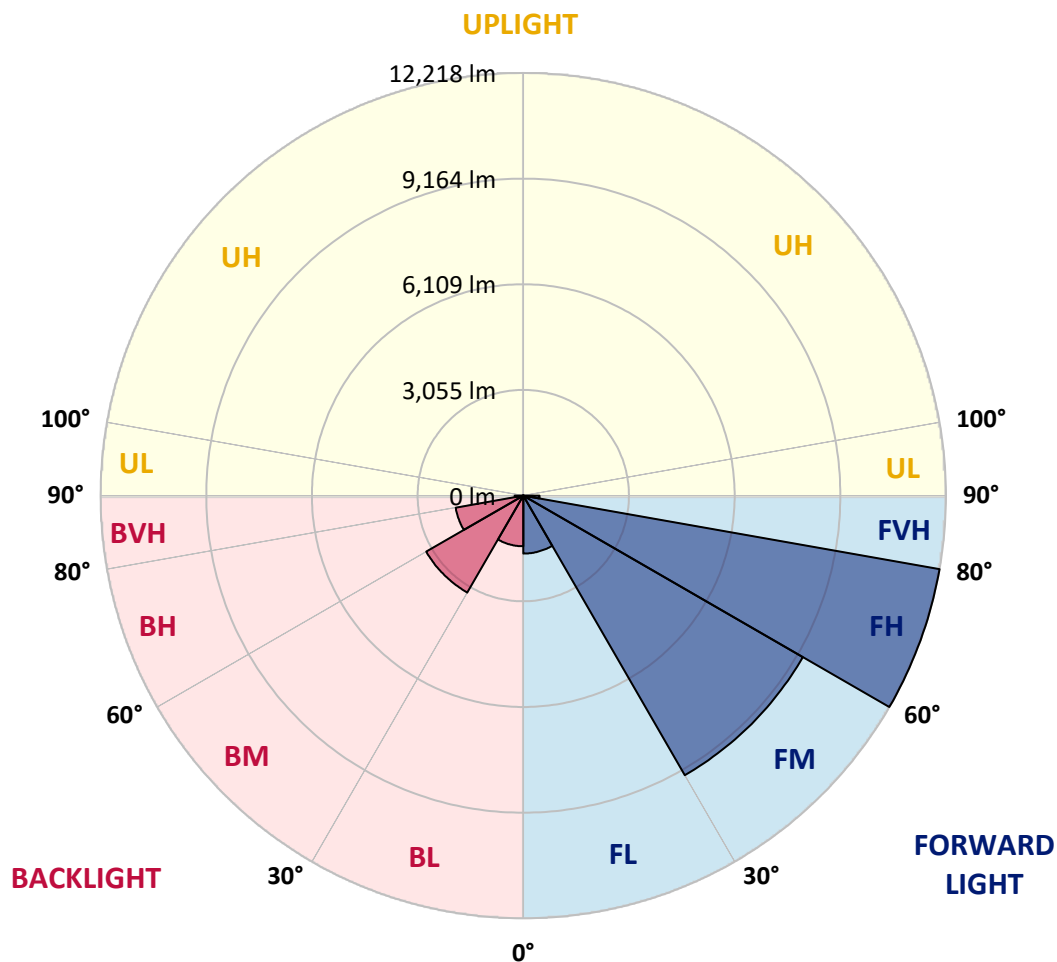
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1674.7	5.5			
FM	(30°-60°)	9330.8	30.5			
FH	(60°-80°)	12218.1	39.9			G5
FVH	(80°-90°)	467.3	1.5			G3/500
BL	(0°-30°)	1463.5	4.8	B3/2500		
BM	(30°-60°)	3237.4	10.6	B3/5000		
BH	(60°-80°)	1985.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	248.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4
2.5°	3272.7	3261.2	3259.6	3235.0	3221.9	3197.3	3187.5	3164.5	3136.7	3108.8	3082.6
5°	3530.0	3530.0	3518.5	3484.1	3430.0	3374.3	3349.7	3305.5	3226.8	3162.9	3108.8
7.5°	3793.8	3797.1	3774.1	3723.3	3646.3	3556.2	3533.2	3467.7	3356.3	3262.8	3182.5
10°	4021.6	4021.6	3990.5	3921.6	3825.0	3726.6	3703.7	3629.9	3505.4	3389.0	3284.1
12.5°	4195.3	4195.3	4154.3	4064.2	3959.3	3870.8	3844.6	3774.1	3657.8	3528.3	3395.6
15°	4308.4	4300.2	4254.3	4152.7	4051.1	3974.1	3956.1	3897.1	3790.5	3659.4	3510.3
17.5°	4313.3	4310.0	4265.8	4180.6	4092.1	4039.6	4028.2	3988.8	3905.3	3780.7	3623.4
20°	4218.3	4224.8	4195.3	4134.7	4092.1	4069.1	4064.2	4051.1	3992.1	3875.8	3718.4
22.5°	4116.7	4128.1	4100.3	4067.5	4064.2	4087.2	4090.4	4093.7	4056.0	3942.9	3798.7
25°	4092.1	4100.3	4072.4	4042.9	4060.9	4121.6	4134.7	4147.8	4118.3	4023.2	3893.8
27.5°	4216.6	4210.1	4156.0	4092.1	4103.5	4185.5	4203.5	4218.3	4203.5	4121.6	4011.8
30°	4569.0	4547.7	4439.5	4252.7	4193.7	4251.0	4269.1	4310.0	4310.0	4249.4	4139.6
32.5°	5158.9	5118.0	4919.7	4552.6	4347.7	4313.3	4331.3	4398.5	4432.9	4385.4	4265.8
35°	5875.1	5832.5	5549.0	5055.7	4629.6	4437.9	4432.9	4508.3	4600.1	4493.6	4337.9
37.5°	6594.5	6550.3	6209.4	5655.5	5040.9	4700.1	4670.6	4696.8	4736.1	4541.1	4437.9
40°	7313.9	7261.5	6963.2	6325.8	5544.0	5047.5	4970.5	4852.5	4836.1	4696.8	4631.2
42.5°	8026.8	7979.3	7828.5	7078.0	6147.1	5386.7	5268.7	5065.5	5127.8	5044.2	4986.9
45°	8746.3	8749.5	8588.9	7921.9	6874.7	6012.7	5853.8	5535.9	5683.3	5652.2	5685.0
47.5°	9383.7	9375.6	9318.2	8741.3	7777.7	6819.0	6614.2	6245.5	6497.8	6612.5	6863.3
50°	10001.6	9996.7	9999.9	9670.5	8826.6	7777.7	7551.6	7164.8	7733.5	8131.7	8580.7
52.5°	10886.5	10914.4	10716.1	10629.2	10101.5	8910.1	8661.0	8261.2	9193.6	9821.3	10698.1
55°	11774.8	11751.8	11596.1	11686.3	11435.5	10250.7	9990.1	9672.2	10819.3	11506.0	12823.6
57.5°	12297.5	12305.7	12464.7	12905.5	13082.5	11922.2	11686.3	11440.4	12646.6	13133.3	14714.8
60°	12767.9	12805.6	13262.8	14095.3	14575.5	13975.7	13765.9	13526.6	14323.1	14516.5	16356.8
62.5°	12915.4	13031.7	13829.8	15075.3	16030.7	16292.9	16032.3	15504.6	15919.3	15843.9	17469.6
65°	12179.5	12338.5	13769.2	15442.4	17330.3	18492.2	18326.7	17346.7	17279.5	16825.5	17651.5
67.5°	10242.5	10401.4	12238.5	14672.1	17867.8	20396.5	20230.9	18690.5	18105.4	16917.3	16274.9
70°	7494.2	7594.2	9351.0	12353.2	16787.8	21035.6	21092.9	19346.0	17810.4	15670.2	13362.7
72.5°	4318.2	4539.5	5770.2	8690.5	13715.1	19419.7	19818.0	17982.5	15945.5	13072.7	9342.8
75°	1856.8	1861.7	2668.0	4793.5	9288.7	15609.5	15994.7	14906.5	12522.0	9039.6	4988.5
77.5°	883.3	899.7	1173.4	2140.3	5113.0	10784.9	11823.9	10530.9	8008.8	4342.8	1884.6
80°	573.6	585.1	717.8	1061.9	2507.4	6253.6	6978.0	6075.0	3533.2	1551.9	812.8
82.5°	347.4	350.7	480.2	649.0	1379.9	2831.8	3338.2	2636.8	1507.7	929.2	478.5
85°	211.4	213.0	291.7	401.5	837.4	978.4	1004.6	996.4	884.9	608.0	255.7
87.5°	101.6	104.9	150.8	190.1	329.4	303.2	286.8	332.7	417.9	327.8	109.8
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°	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4
2.5°	3071.1	3066.2	3054.7	3049.8	3046.5	3048.2	3046.5	3046.5	3048.2	3048.2	3048.2
5°	3085.9	3077.7	3059.6	3059.6	3069.5	3092.4	3113.7	3130.1	3148.1	3146.5	3146.5
7.5°	3149.8	3135.0	3113.7	3120.3	3144.8	3180.9	3218.6	3254.6	3290.7	3294.0	3292.3
10°	3243.2	3228.4	3205.5	3213.7	3253.0	3307.1	3354.6	3407.1	3446.4	3457.9	3454.6
12.5°	3349.7	3320.2	3300.5	3323.5	3385.8	3457.9	3503.7	3543.1	3570.9	3587.3	3580.8
15°	3457.9	3430.0	3407.1	3454.6	3530.0	3597.2	3620.1	3626.7	3631.6	3648.0	3644.7
17.5°	3562.7	3525.1	3516.9	3579.1	3651.2	3680.7	3667.6	3639.8	3618.5	3631.6	3629.9
20°	3656.2	3626.7	3623.4	3685.7	3713.5	3685.7	3629.9	3580.8	3543.1	3546.4	3544.7
22.5°	3744.6	3721.7	3725.0	3751.2	3707.0	3611.9	3520.1	3452.9	3412.0	3420.2	3425.1
25°	3843.0	3820.0	3828.2	3785.6	3639.8	3474.2	3341.5	3284.1	3267.8	3284.1	3295.6
27.5°	3970.8	3956.1	3951.1	3787.3	3520.1	3271.0	3120.3	3099.0	3113.7	3149.8	3167.8
30°	4108.5	4108.5	4082.2	3759.4	3356.3	3026.9	2895.8	2899.0	2949.8	3000.6	3018.7
32.5°	4241.2	4269.1	4187.1	3684.0	3144.8	2789.2	2689.3	2692.5	2736.8	2799.1	2815.5
35°	4351.0	4431.3	4277.3	3546.4	2895.8	2589.3	2513.9	2469.7	2471.3	2518.8	2531.9
37.5°	4501.8	4650.9	4329.7	3341.5	2630.3	2418.9	2333.6	2256.6	2205.8	2186.2	2186.2
40°	4764.0	4983.6	4342.8	3038.3	2379.5	2256.6	2135.4	2043.6	1945.3	1856.8	1840.4
42.5°	5208.1	5485.1	4316.6	2689.3	2153.4	2078.0	1960.0	1846.9	1710.9	1586.4	1576.5
45°	5994.7	6137.3	4246.1	2327.1	1951.8	1905.9	1791.2	1668.3	1524.1	1412.6	1404.4
47.5°	7255.0	7053.4	4152.7	2005.9	1768.3	1755.2	1666.7	1524.1	1379.9	1302.8	1294.6
50°	9095.3	8495.5	4139.6	1773.2	1620.8	1627.3	1555.2	1424.1	1297.9	1234.0	1224.2
52.5°	11311.0	10237.6	4226.5	1609.3	1491.3	1515.9	1479.8	1358.6	1247.1	1193.0	1183.2
55°	13461.1	11804.2	4278.9	1481.5	1370.0	1415.9	1420.8	1319.2	1217.6	1163.5	1157.0
57.5°	15206.4	12984.2	4046.2	1365.1	1265.2	1335.6	1371.7	1296.3	1202.9	1161.9	1155.4
60°	16420.7	13541.4	3384.1	1261.9	1188.1	1271.7	1353.6	1297.9	1238.9	1243.8	1247.1
62.5°	16807.5	13293.9	2538.5	1184.8	1135.7	1250.4	1383.1	1365.1	1304.5	1342.2	1348.7
65°	16166.7	12271.3	1840.4	1124.2	1089.8	1265.2	1471.6	1414.3	1281.5	1309.4	1309.4
67.5°	14021.5	10571.9	1432.3	1068.5	1037.4	1293.0	1560.1	1409.4	1227.5	1260.2	1230.7
70°	11122.5	8177.6	1193.0	1006.2	981.6	1252.0	1568.3	1358.6	1163.5	1170.1	1114.4
72.5°	7381.1	5376.9	1025.9	947.2	896.4	1125.9	1501.1	1293.0	1101.3	1063.6	1007.9
75°	3616.8	2681.1	894.8	873.5	785.0	980.0	1409.4	1230.7	1034.1	975.1	943.9
77.5°	1401.2	1140.6	763.7	780.1	683.4	863.6	1288.1	1142.2	945.6	865.3	840.7
80°	680.1	647.3	626.0	650.6	562.1	735.8	1176.7	1065.2	863.6	775.2	739.1
82.5°	422.8	399.9	480.2	506.4	432.6	671.9	1116.0	999.7	760.4	642.4	612.9
85°	214.7	229.4	321.2	345.8	309.7	534.2	919.4	750.6	549.0	455.6	458.9
87.5°	81.9	109.8	168.8	181.9	165.5	281.9	506.4	437.6	352.3	239.3	221.2
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)