

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: P522787

Luminaire Tested: **GALN-SA5D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522787
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-SA5D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 36115 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

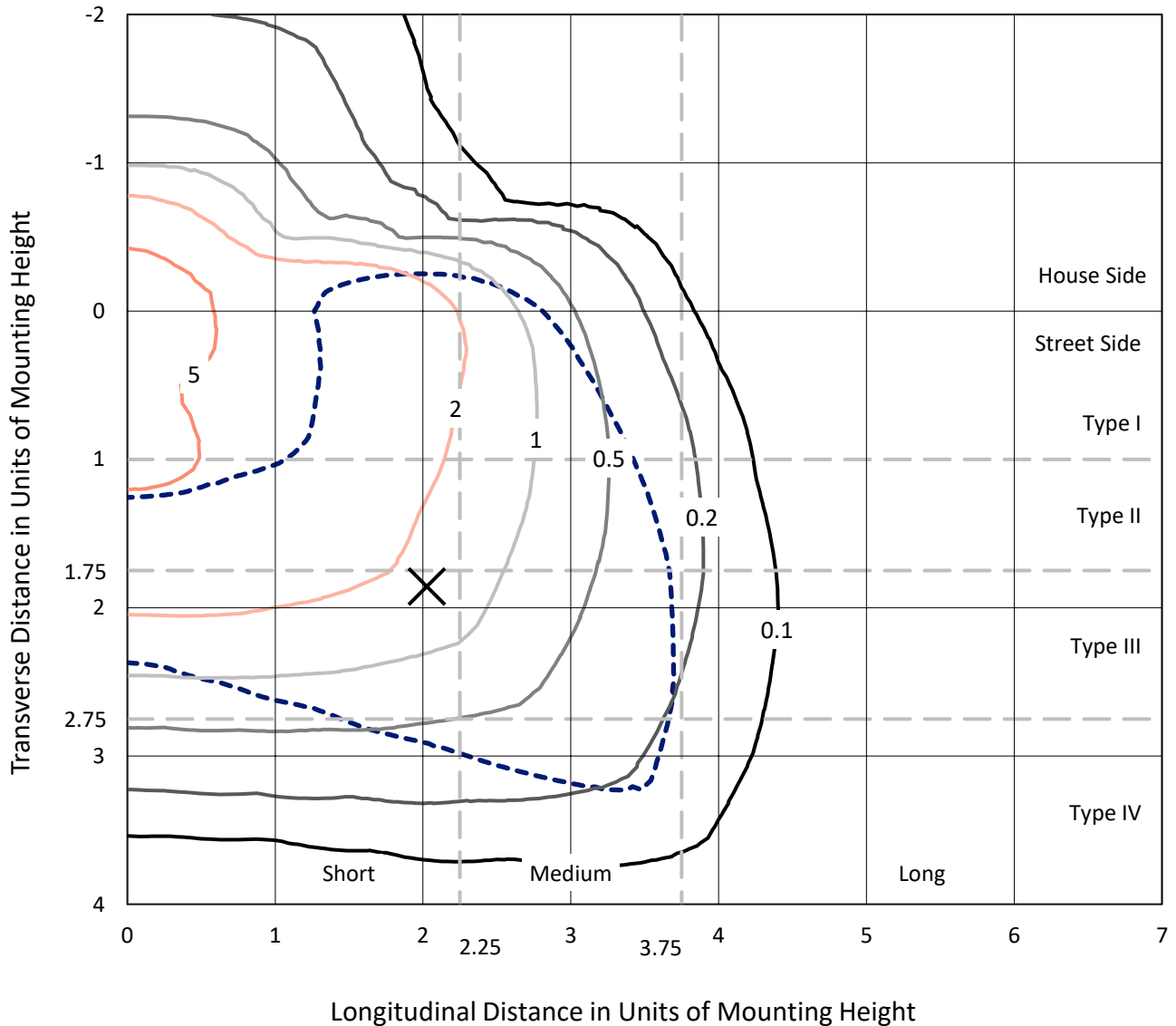
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

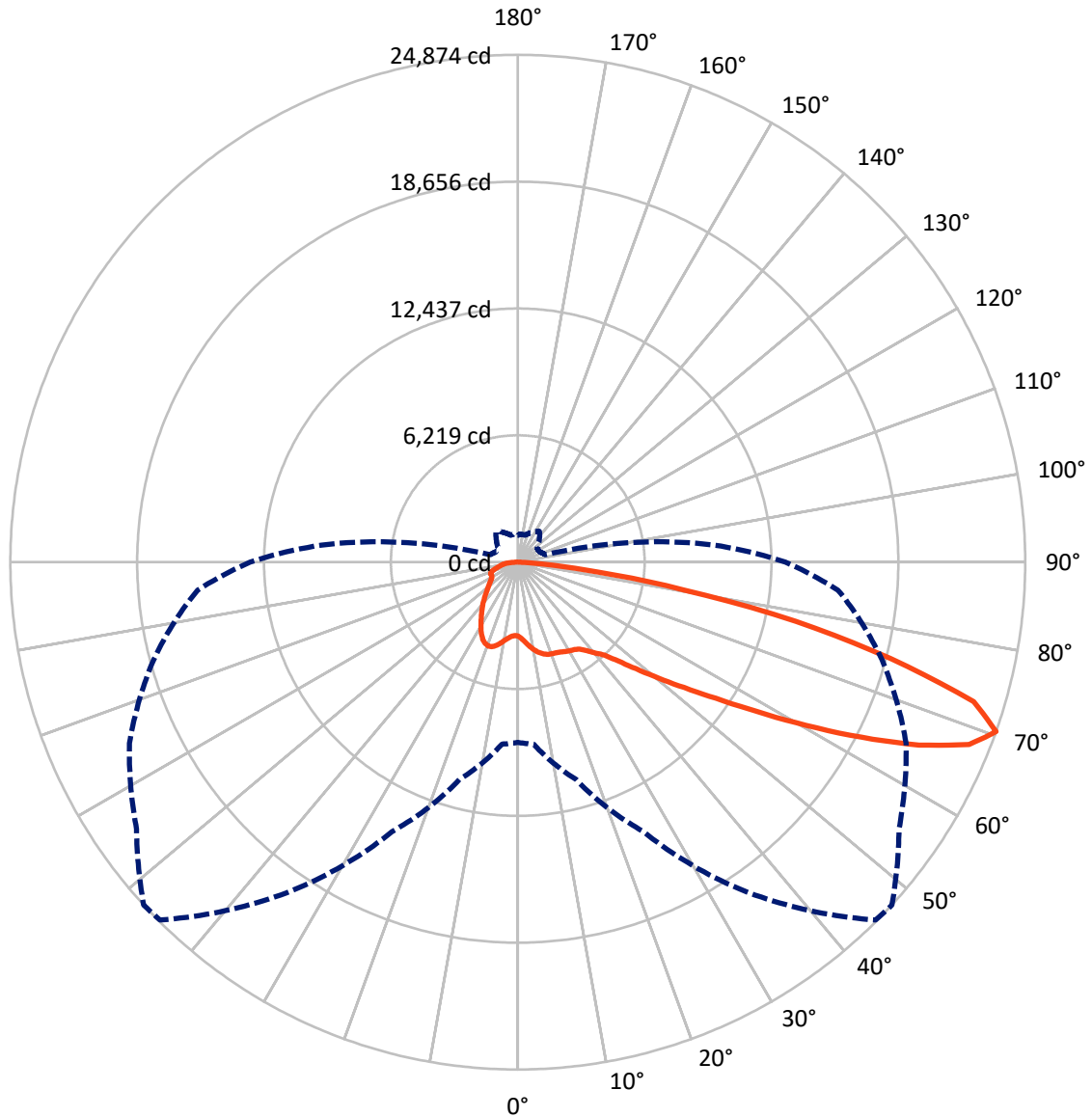
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	8177.1	0.0	8177.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27937.9	0.0	27937.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	36115.0	0.0	36115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.7	1.0
10°-20°	1249.4	3.5
20°-30°	2077.7	5.8
30°-40°	2944.8	8.2
40°-50°	4347.1	12.0
50°-60°	7529.4	20.8
60°-70°	10635.5	29.4
70°-80°	6113.9	16.9
80°-90°	843.6	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°	36115.0	100.0
0°-180°	36115.0	100.0

Coefficient of Utilization



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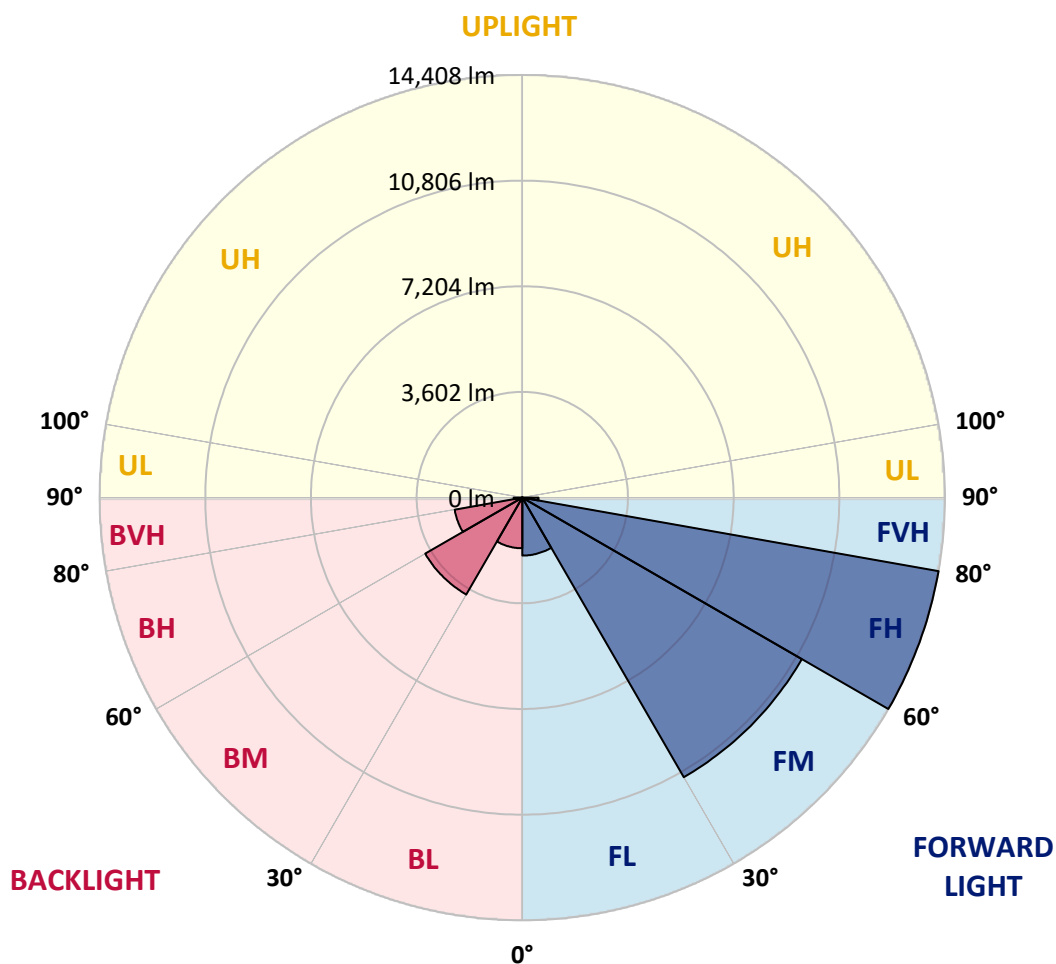
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1974.9	5.5			
FM	(30°-60°)	11003.5	30.5			
FH	(60°-80°)	14408.4	39.9			G5
FVH	(80°-90°)	551.0	1.5			G4/750
BL	(0°-30°)	1725.8	4.8	B3/2500		
BM	(30°-60°)	3817.8	10.6	B3/5000		
BH	(60°-80°)	2341.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	292.5	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°	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5
2.5°	3859.4	3845.8	3843.9	3814.9	3799.4	3770.5	3758.9	3731.8	3698.9	3666.1	3635.2
5°	4162.8	4162.8	4149.2	4108.7	4044.9	3979.2	3950.2	3898.0	3805.2	3729.9	3666.1
7.5°	4473.9	4477.8	4450.7	4390.8	4300.0	4193.7	4166.6	4089.3	3957.9	3847.8	3753.1
10°	4742.5	4742.5	4705.8	4624.7	4510.6	4394.7	4367.6	4280.7	4133.8	3996.6	3872.9
12.5°	4947.4	4947.4	4899.1	4792.8	4669.1	4564.7	4533.8	4450.7	4313.5	4160.8	4004.3
15°	5080.7	5071.1	5017.0	4897.1	4777.3	4686.5	4665.2	4595.7	4470.0	4315.4	4139.6
17.5°	5086.5	5082.7	5030.5	4930.0	4825.6	4763.8	4750.3	4703.9	4605.3	4458.5	4272.9
20°	4974.4	4982.2	4947.4	4875.9	4825.6	4798.6	4792.8	4777.3	4707.8	4570.5	4385.0
22.5°	4854.6	4868.2	4835.3	4796.7	4792.8	4819.8	4823.7	4827.6	4783.1	4649.8	4479.7
25°	4825.6	4835.3	4802.4	4767.7	4788.9	4860.4	4875.9	4891.3	4856.6	4744.5	4591.8
27.5°	4972.5	4964.8	4901.0	4825.6	4839.2	4935.8	4957.1	4974.4	4957.1	4860.4	4730.9
30°	5388.0	5362.9	5235.3	5015.0	4945.5	5013.1	5034.4	5082.7	5082.7	5011.2	4881.7
32.5°	6083.7	6035.4	5801.6	5368.7	5127.1	5086.5	5107.8	5187.0	5227.6	5171.6	5030.5
35°	6928.3	6878.0	6543.7	5962.0	5459.5	5233.4	5227.6	5316.5	5424.7	5299.1	5115.5
37.5°	7776.7	7724.5	7322.5	6669.3	5944.6	5542.6	5507.8	5538.8	5585.1	5355.2	5233.4
40°	8625.1	8563.2	8211.5	7459.7	6537.9	5952.3	5861.5	5722.4	5703.0	5538.8	5461.5
42.5°	9465.8	9409.7	9231.9	8346.8	7249.1	6352.4	6213.2	5973.6	6047.0	5948.5	5880.8
45°	10314.2	10318.0	10128.6	9342.1	8107.2	7090.6	6903.2	6528.2	6702.2	6665.5	6704.1
47.5°	11065.9	11056.3	10988.6	10308.4	9172.0	8041.4	7799.9	7365.0	7662.7	7797.9	8093.6
50°	11794.5	11788.7	11792.6	11404.1	10408.9	9172.0	8905.3	8449.2	9119.8	9589.4	10119.0
52.5°	12838.1	12871.0	12637.1	12534.7	11912.4	10507.4	10213.7	9742.1	10841.7	11581.9	12615.9
55°	13885.6	13858.5	13674.9	13781.2	13485.5	12088.3	11781.0	11406.1	12758.9	13568.6	15122.4
57.5°	14502.0	14511.7	14699.2	15219.0	15427.7	14059.5	13781.2	13491.3	14913.7	15487.7	17352.6
60°	15056.7	15101.1	15640.3	16622.1	17188.3	16481.0	16233.6	15951.5	16890.7	17118.8	19289.0
62.5°	15230.6	15367.8	16309.0	17777.8	18904.5	19213.7	18906.4	18284.1	18773.0	18684.1	20601.3
65°	14362.9	14550.4	16237.5	18210.7	20437.0	21807.2	21612.0	20456.3	20377.1	19841.8	20815.8
67.5°	12078.6	12266.1	14432.5	17302.3	21070.9	24052.8	23857.6	22041.0	21351.1	19950.0	19192.4
70°	8837.7	8955.6	11027.3	14567.8	19797.3	24806.5	24874.2	22814.1	21003.2	18479.3	15758.2
72.5°	5092.3	5353.2	6804.6	10248.4	16173.7	22901.0	23370.6	21206.1	18804.0	15416.2	11017.6
75°	2189.6	2195.4	3146.2	5652.8	10953.8	18407.8	18861.9	17578.7	14766.8	10660.1	5882.8
77.5°	1041.7	1061.0	1383.7	2523.9	6029.6	12718.3	13943.5	12418.7	9444.5	5121.3	2222.5
80°	676.4	689.9	846.5	1252.3	2956.8	7374.7	8228.9	7164.1	4166.6	1830.1	958.6
82.5°	409.7	413.6	566.2	765.3	1627.2	3339.5	3936.7	3109.5	1778.0	1095.8	564.3
85°	249.3	251.2	344.0	473.5	987.5	1153.7	1184.7	1175.0	1043.6	717.0	301.5
87.5°	119.8	123.7	177.8	224.2	388.4	357.5	338.2	392.3	492.8	386.5	129.5
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°	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5	3625.5
2.5°	3621.6	3615.8	3602.3	3596.5	3592.7	3594.6	3592.7	3592.7	3594.6	3594.6	3594.6
5°	3639.0	3629.4	3608.1	3608.1	3619.7	3646.8	3671.9	3691.2	3712.5	3710.5	3710.5
7.5°	3714.4	3697.0	3671.9	3679.6	3708.6	3751.1	3795.6	3838.1	3880.6	3884.5	3882.5
10°	3824.6	3807.2	3780.1	3789.8	3836.2	3899.9	3956.0	4017.8	4064.2	4077.7	4073.9
12.5°	3950.2	3915.4	3892.2	3919.3	3992.7	4077.7	4131.8	4178.2	4211.1	4230.4	4222.7
15°	4077.7	4044.9	4017.8	4073.9	4162.8	4242.0	4269.1	4276.8	4282.6	4301.9	4298.0
17.5°	4201.4	4157.0	4147.3	4220.7	4305.8	4340.6	4325.1	4292.2	4267.1	4282.6	4280.7
20°	4311.6	4276.8	4272.9	4346.4	4379.2	4346.4	4280.7	4222.7	4178.2	4182.1	4180.2
22.5°	4415.9	4388.9	4392.7	4423.7	4371.5	4259.4	4151.2	4071.9	4023.6	4033.3	4039.1
25°	4531.9	4504.8	4514.5	4464.2	4292.2	4097.1	3940.5	3872.9	3853.6	3872.9	3886.4
27.5°	4682.6	4665.2	4659.4	4466.2	4151.2	3857.4	3679.6	3654.5	3671.9	3714.4	3735.7
30°	4845.0	4845.0	4814.0	4433.3	3957.9	3569.5	3414.9	3418.7	3478.6	3538.5	3559.8
32.5°	5001.5	5034.4	4937.7	4344.4	3708.6	3289.2	3171.4	3175.2	3227.4	3300.8	3320.2
35°	5131.0	5225.7	5044.0	4182.1	3414.9	3053.5	2964.6	2912.4	2914.3	2970.4	2985.8
37.5°	5308.8	5484.6	5105.9	3940.5	3101.8	2852.5	2752.0	2661.2	2601.2	2578.1	2578.1
40°	5618.0	5877.0	5121.3	3583.0	2806.1	2661.2	2518.1	2409.9	2294.0	2189.6	2170.3
42.5°	6141.7	6468.3	5090.4	3171.4	2539.4	2450.5	2311.4	2178.0	2017.6	1870.7	1859.1
45°	7069.4	7237.5	5007.3	2744.3	2301.7	2247.6	2112.3	1967.4	1797.3	1665.9	1656.2
47.5°	8555.5	8317.8	4897.1	2365.5	2085.2	2069.8	1965.4	1797.3	1627.2	1536.4	1526.7
50°	10725.8	10018.5	4881.7	2091.0	1911.3	1919.0	1834.0	1679.4	1530.6	1455.2	1443.6
52.5°	13338.6	12072.8	4984.1	1897.8	1758.6	1787.6	1745.1	1602.1	1470.7	1406.9	1395.3
55°	15874.2	13920.3	5046.0	1747.0	1615.6	1669.7	1675.5	1555.7	1435.9	1372.1	1364.4
57.5°	17932.4	15311.8	4771.5	1609.8	1491.9	1575.0	1617.6	1528.7	1418.5	1370.2	1362.5
60°	19364.4	15968.9	3990.8	1488.1	1401.1	1499.7	1596.3	1530.6	1461.0	1466.8	1470.7
62.5°	19820.5	15677.1	2993.6	1397.3	1339.3	1474.6	1631.1	1609.8	1538.3	1582.8	1590.5
65°	19064.9	14471.1	2170.3	1325.7	1285.2	1491.9	1735.5	1667.8	1511.3	1544.1	1544.1
67.5°	16535.1	12467.0	1689.1	1260.0	1223.3	1524.8	1839.8	1662.0	1447.5	1486.2	1451.4
70°	13116.4	9643.6	1406.9	1186.6	1157.6	1476.5	1849.5	1602.1	1372.1	1379.9	1314.2
72.5°	8704.3	6340.8	1209.8	1117.0	1057.1	1327.7	1770.2	1524.8	1298.7	1254.2	1188.5
75°	4265.2	3161.7	1055.2	1030.1	925.7	1155.7	1662.0	1451.4	1219.5	1149.9	1113.2
77.5°	1652.4	1345.1	900.6	919.9	805.9	1018.5	1519.0	1347.0	1115.1	1020.4	991.4
80°	802.0	763.4	738.2	767.2	662.9	867.7	1387.6	1256.2	1018.5	914.1	871.6
82.5°	498.6	471.5	566.2	597.2	510.2	792.4	1316.1	1178.9	896.7	757.6	722.8
85°	253.2	270.6	378.8	407.8	365.3	630.0	1084.2	885.1	647.4	537.3	541.1
87.5°	96.6	129.5	199.1	214.5	195.2	332.4	597.2	516.0	415.5	282.2	260.9
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)