

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: P522780

Luminaire Tested: **GALN-SA5C-750-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522780
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-SA5C-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 35233 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

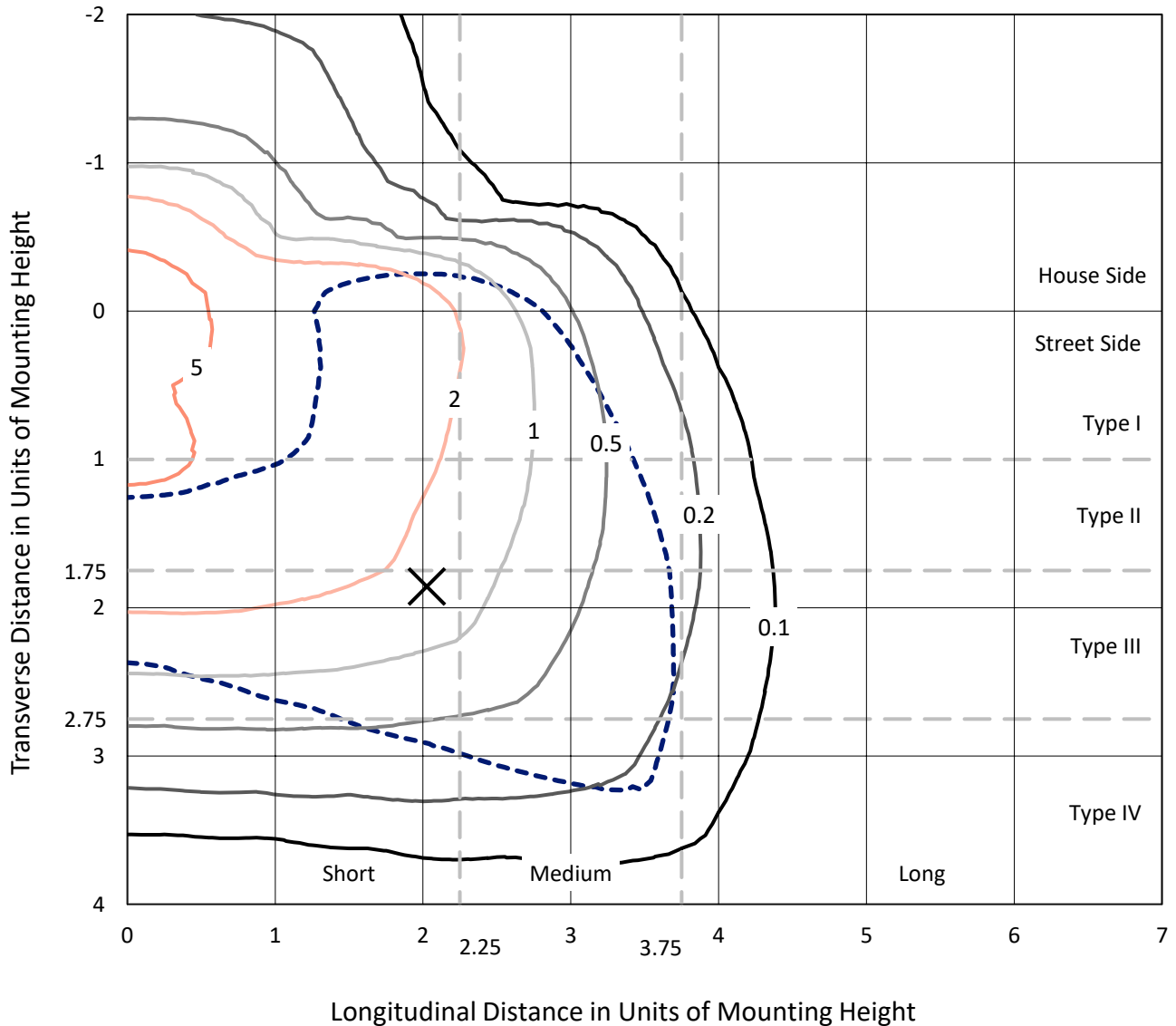
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

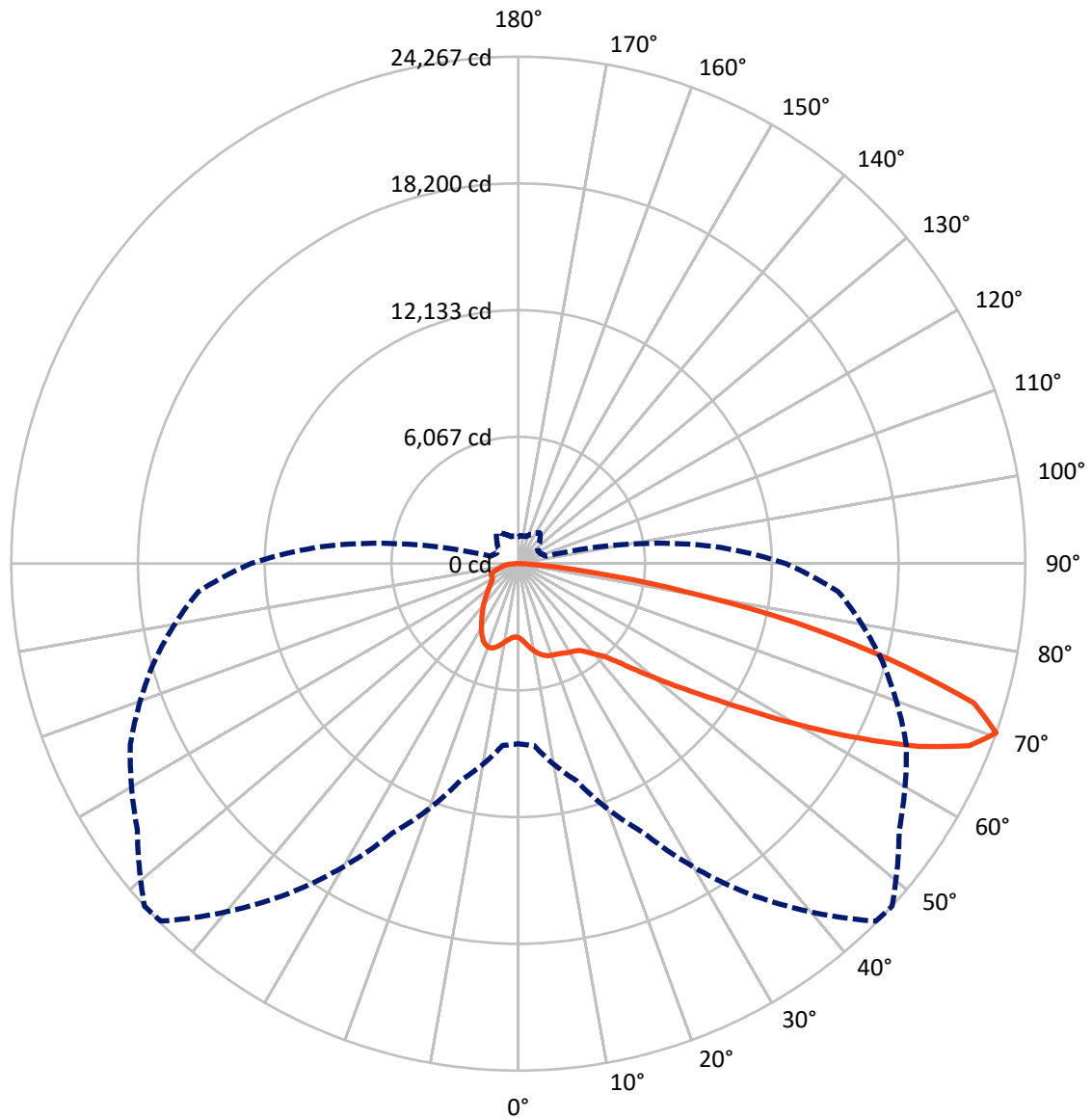
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	7977.4	0.0	7977.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27255.6	0.0	27255.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	35233.0	0.0	35233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.6	1.0
10°-20°	1218.9	3.5
20°-30°	2026.9	5.8
30°-40°	2872.9	8.2
40°-50°	4241.0	12.0
50°-60°	7345.5	20.8
60°-70°	10375.8	29.4
70°-80°	5964.6	16.9
80°-90°	823.0	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°	35233.0	100.0
0°-180°	35233.0	100.0

Coefficient of Utilization



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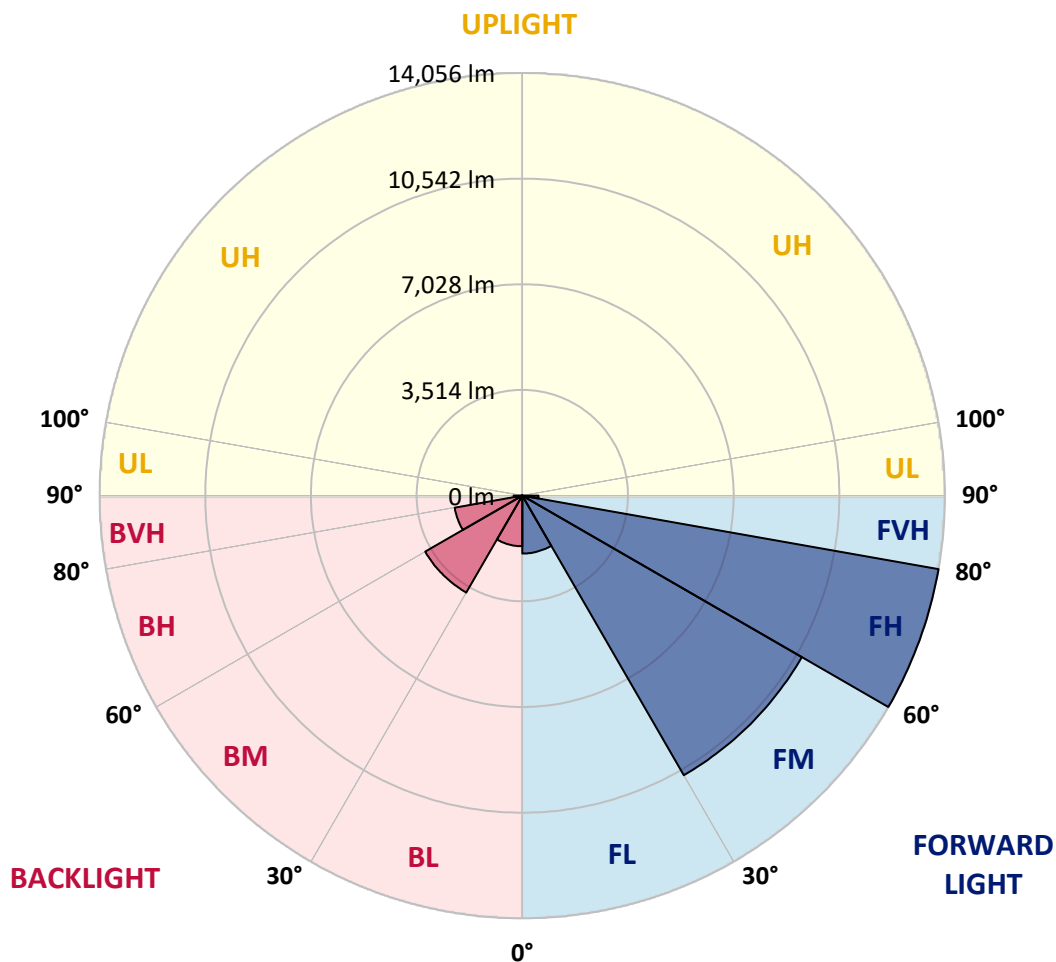
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1926.7	5.5			
FM	(30°-60°)	10734.8	30.5			
FH	(60°-80°)	14056.5	39.9			G5
FVH	(80°-90°)	537.6	1.5			G4/750
BL	(0°-30°)	1683.7	4.8	B3/2500		
BM	(30°-60°)	3724.5	10.6	B3/5000		
BH	(60°-80°)	2283.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	285.4	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°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	3765.1	3751.9	3750.0	3721.7	3706.7	3678.4	3667.1	3640.7	3608.6	3576.6	3546.4
5°	4061.1	4061.1	4047.9	4008.3	3946.1	3882.0	3853.7	3802.8	3712.3	3638.8	3576.6
7.5°	4364.7	4368.4	4342.0	4283.6	4195.0	4091.3	4064.9	3989.5	3861.3	3753.8	3661.4
10°	4626.7	4626.7	4590.9	4511.7	4400.5	4287.3	4261.0	4176.1	4032.8	3899.0	3778.3
12.5°	4826.6	4826.6	4779.4	4675.7	4555.1	4453.3	4423.1	4342.0	4208.2	4059.2	3906.5
15°	4956.7	4947.2	4894.4	4777.5	4660.7	4572.0	4551.3	4483.4	4360.9	4210.0	4038.5
17.5°	4962.3	4958.5	4907.6	4809.6	4707.8	4647.5	4634.3	4589.0	4492.9	4349.6	4168.6
20°	4853.0	4860.5	4826.6	4756.8	4707.8	4681.4	4675.7	4660.7	4592.8	4458.9	4277.9
22.5°	4736.1	4749.3	4717.2	4679.5	4675.7	4702.1	4705.9	4709.7	4666.3	4536.2	4370.3
25°	4707.8	4717.2	4685.2	4651.2	4672.0	4741.7	4756.8	4771.9	4738.0	4628.6	4479.7
27.5°	4851.1	4843.5	4781.3	4707.8	4721.0	4815.3	4836.0	4853.0	4836.0	4741.7	4615.4
30°	5256.4	5231.9	5107.5	4892.6	4824.7	4890.7	4911.4	4958.5	4958.5	4888.8	4762.5
32.5°	5935.2	5888.0	5659.9	5237.6	5001.9	4962.3	4983.1	5060.4	5099.9	5045.3	4907.6
35°	6759.1	6710.1	6383.9	5816.4	5326.2	5105.6	5099.9	5186.7	5292.3	5169.7	4990.6
37.5°	7586.8	7535.9	7143.7	6506.4	5799.4	5407.3	5373.3	5403.5	5448.7	5224.4	5105.6
40°	8414.4	8354.1	8011.0	7277.6	6378.2	5807.0	5718.4	5582.6	5563.8	5403.5	5328.1
42.5°	9234.6	9179.9	9006.5	8142.9	7072.1	6197.2	6061.5	5827.7	5899.3	5803.2	5737.2
45°	10062.3	10066.0	9881.3	9113.9	7909.2	6917.5	6734.6	6368.8	6538.5	6502.7	6540.4
47.5°	10795.7	10786.2	10720.3	10056.6	8948.0	7845.1	7609.4	7185.2	7475.5	7607.5	7896.0
50°	11506.5	11500.8	11504.6	11125.6	10154.6	8948.0	8687.8	8242.9	8897.1	9355.2	9871.8
52.5°	12524.6	12556.6	12328.5	12228.6	11621.5	10250.8	9964.2	9504.2	10577.0	11299.1	12307.7
55°	13546.4	13520.0	13340.9	13444.6	13156.2	11793.0	11493.3	11127.5	12447.3	13237.2	14753.1
57.5°	14147.9	14157.3	14340.2	14847.4	15051.0	13716.1	13444.6	13161.8	14549.5	15109.4	16928.8
60°	14689.0	14732.3	15258.4	16216.1	16768.6	16078.5	15837.2	15561.9	16478.2	16700.7	18818.0
62.5°	14858.7	14992.5	15910.7	17343.6	18442.8	18744.4	18444.7	17837.6	18314.6	18227.8	20098.1
65°	14012.1	14195.0	15840.9	17765.9	19937.9	21274.6	21084.2	19956.7	19879.4	19357.2	20307.4
67.5°	11783.6	11966.5	14080.0	16879.8	20556.3	23465.4	23275.0	21502.7	20829.7	19462.8	18723.7
70°	8621.8	8736.8	10758.0	14212.0	19313.8	24200.7	24266.7	22256.9	20490.3	18028.0	15373.4
72.5°	4968.0	5222.5	6638.4	9998.2	15778.7	22341.7	22799.9	20688.3	18344.7	15039.7	10748.5
75°	2136.1	2141.8	3069.4	5514.7	10686.3	17958.2	18401.3	17149.4	14406.2	10399.7	5739.1
77.5°	1016.2	1035.1	1349.9	2462.3	5882.4	12407.7	13603.0	12115.4	9213.8	4996.3	2168.2
80°	659.9	673.1	825.8	1221.7	2884.6	7194.6	8027.9	6989.1	4064.9	1785.5	935.1
82.5°	399.7	403.5	552.4	746.6	1587.5	3257.9	3840.5	3033.6	1734.5	1069.0	550.5
85°	243.2	245.1	335.6	461.9	963.4	1125.6	1155.7	1146.3	1018.1	699.5	294.1
87.5°	116.9	120.7	173.5	218.7	379.0	348.8	329.9	382.7	480.8	377.1	126.3
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°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	3533.2	3527.5	3514.3	3508.7	3504.9	3506.8	3504.9	3504.9	3506.8	3506.8	3506.8
5°	3550.2	3540.7	3520.0	3520.0	3531.3	3557.7	3582.2	3601.1	3621.8	3619.9	3619.9
7.5°	3623.7	3606.7	3582.2	3589.8	3618.0	3659.5	3702.9	3744.4	3785.8	3789.6	3787.7
10°	3731.2	3714.2	3687.8	3697.2	3742.5	3804.7	3859.4	3919.7	3965.0	3978.1	3974.4
12.5°	3853.7	3819.8	3797.2	3823.5	3895.2	3978.1	4030.9	4076.2	4108.2	4127.1	4119.6
15°	3978.1	3946.1	3919.7	3974.4	4061.1	4138.4	4164.8	4172.3	4178.0	4196.9	4193.1
17.5°	4098.8	4055.4	4046.0	4117.7	4200.6	4234.6	4219.5	4187.4	4162.9	4178.0	4176.1
20°	4206.3	4172.3	4168.6	4240.2	4272.3	4240.2	4176.1	4119.6	4076.2	4080.0	4078.1
22.5°	4308.1	4281.7	4285.5	4315.6	4264.7	4155.4	4049.8	3972.5	3925.4	3934.8	3940.4
25°	4421.2	4394.8	4404.2	4355.2	4187.4	3997.0	3844.3	3778.3	3759.4	3778.3	3791.5
27.5°	4568.3	4551.3	4545.6	4357.1	4049.8	3763.2	3589.8	3565.2	3582.2	3623.7	3644.4
30°	4726.6	4726.6	4696.5	4325.1	3861.3	3482.3	3331.5	3335.2	3393.7	3452.1	3472.9
32.5°	4879.4	4911.4	4817.1	4238.3	3618.0	3208.9	3093.9	3097.7	3148.6	3220.2	3239.1
35°	5005.7	5098.1	4920.8	4080.0	3331.5	2978.9	2892.2	2841.3	2843.2	2897.8	2912.9
37.5°	5179.1	5350.7	4981.2	3844.3	3026.0	2782.8	2684.8	2596.2	2537.7	2515.1	2515.1
40°	5480.8	5733.4	4996.3	3495.5	2737.6	2596.2	2456.6	2351.1	2237.9	2136.1	2117.3
42.5°	5991.7	6310.4	4966.1	3093.9	2477.4	2390.7	2254.9	2124.8	1968.3	1825.0	1813.7
45°	6896.7	7060.7	4885.0	2677.2	2245.5	2192.7	2060.7	1919.3	1753.4	1625.2	1615.8
47.5°	8346.6	8114.7	4777.5	2307.7	2034.3	2019.2	1917.4	1753.4	1587.5	1498.9	1489.4
50°	10463.8	9773.8	4762.5	2040.0	1864.6	1872.2	1789.2	1638.4	1493.2	1419.7	1408.4
52.5°	13012.9	11778.0	4862.4	1851.4	1715.7	1744.0	1702.5	1563.0	1434.8	1372.6	1361.2
55°	15486.5	13580.4	4922.7	1704.4	1576.2	1629.0	1634.6	1517.7	1400.8	1338.6	1331.1
57.5°	17494.4	14937.9	4655.0	1570.5	1455.5	1536.6	1578.1	1491.3	1383.9	1336.7	1329.2
60°	18891.5	15578.9	3893.3	1451.7	1366.9	1463.1	1557.3	1493.2	1425.3	1431.0	1434.8
62.5°	19336.4	15294.2	2920.5	1363.1	1306.6	1438.5	1591.3	1570.5	1500.8	1544.1	1551.7
65°	18599.3	14117.7	2117.3	1293.4	1253.8	1455.5	1693.1	1627.1	1474.4	1506.4	1506.4
67.5°	16131.3	12162.6	1647.8	1229.3	1193.4	1487.6	1794.9	1621.4	1412.1	1449.9	1415.9
70°	12796.1	9408.0	1372.6	1157.6	1129.3	1440.4	1804.3	1563.0	1338.6	1346.2	1282.1
72.5°	8491.7	6185.9	1180.2	1089.7	1031.3	1295.3	1727.0	1487.6	1267.0	1223.6	1159.5
75°	4161.0	3084.5	1029.4	1004.9	903.1	1127.5	1621.4	1415.9	1189.7	1121.8	1086.0
77.5°	1612.0	1312.2	878.6	897.4	786.2	993.6	1481.9	1314.1	1087.9	995.5	967.2
80°	782.4	744.7	720.2	748.5	646.7	846.5	1353.7	1225.5	993.6	891.8	850.3
82.5°	486.4	460.0	552.4	582.6	497.7	773.0	1283.9	1150.1	874.8	739.1	705.1
85°	247.0	264.0	369.5	397.8	356.3	614.6	1057.7	863.5	631.6	524.1	527.9
87.5°	94.3	126.3	194.2	209.3	190.4	324.3	582.6	503.4	405.4	275.3	254.5
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)