

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: P458395

Luminaire Tested: **GALN-SA9D-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50733 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

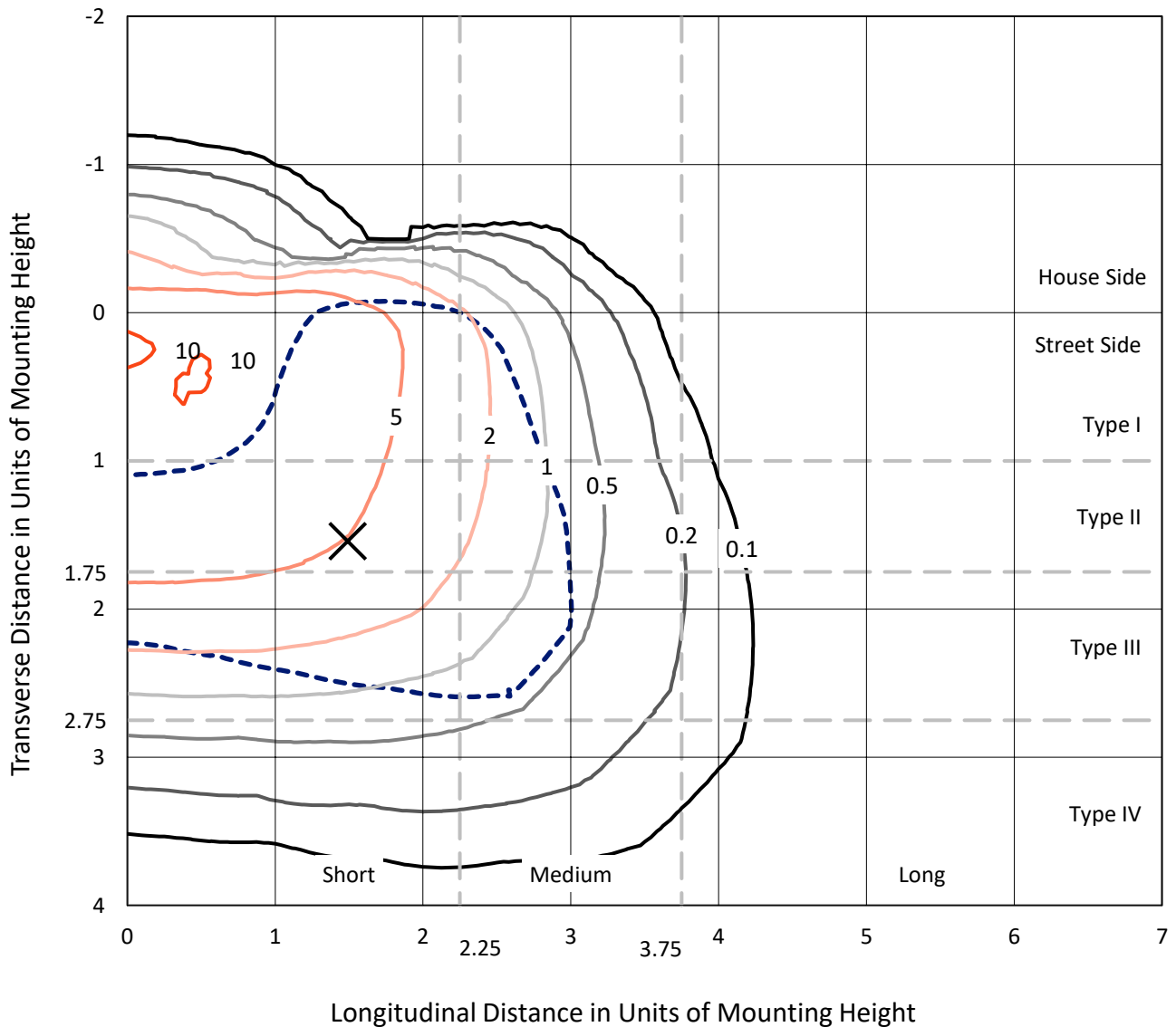
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

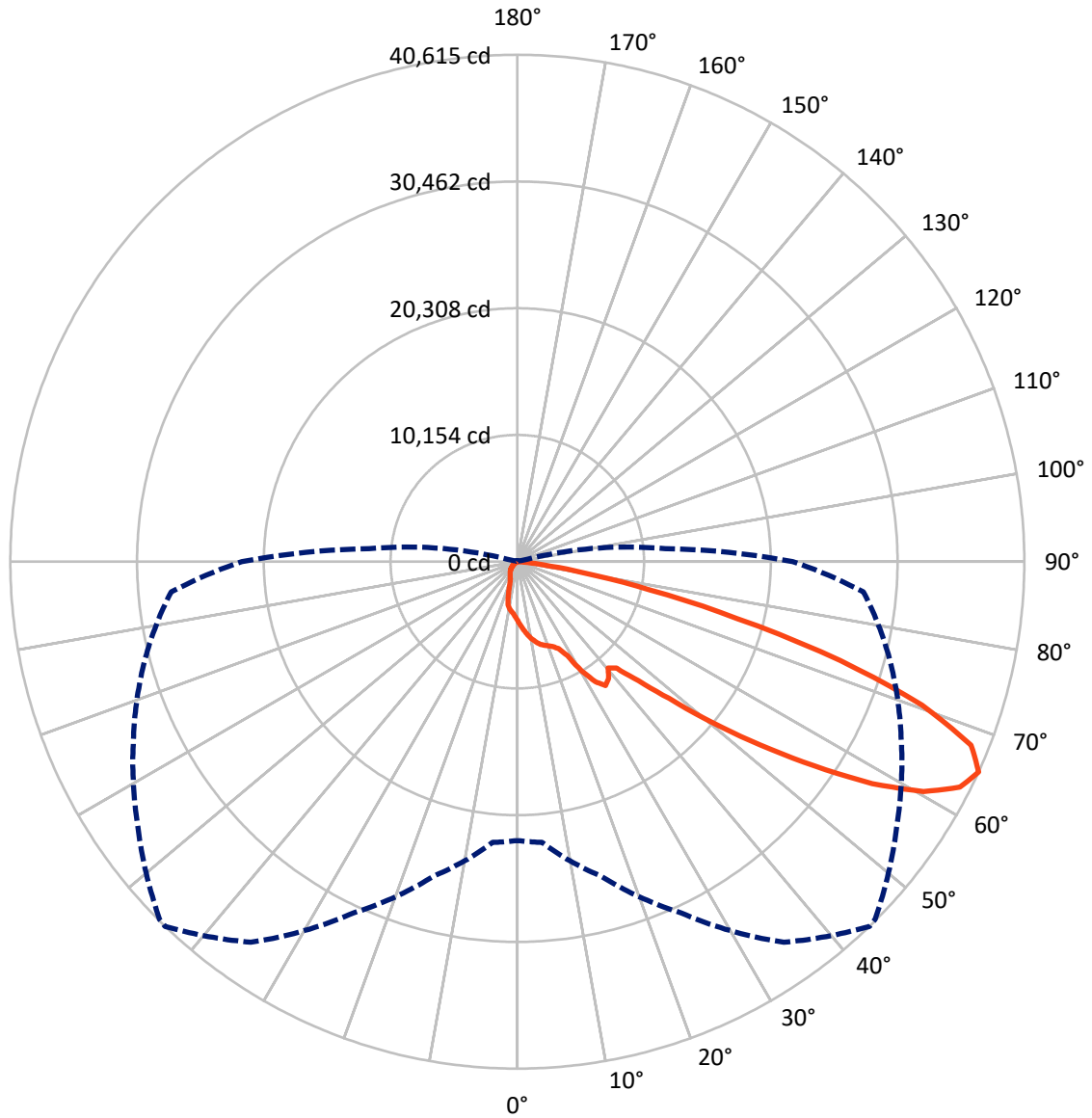
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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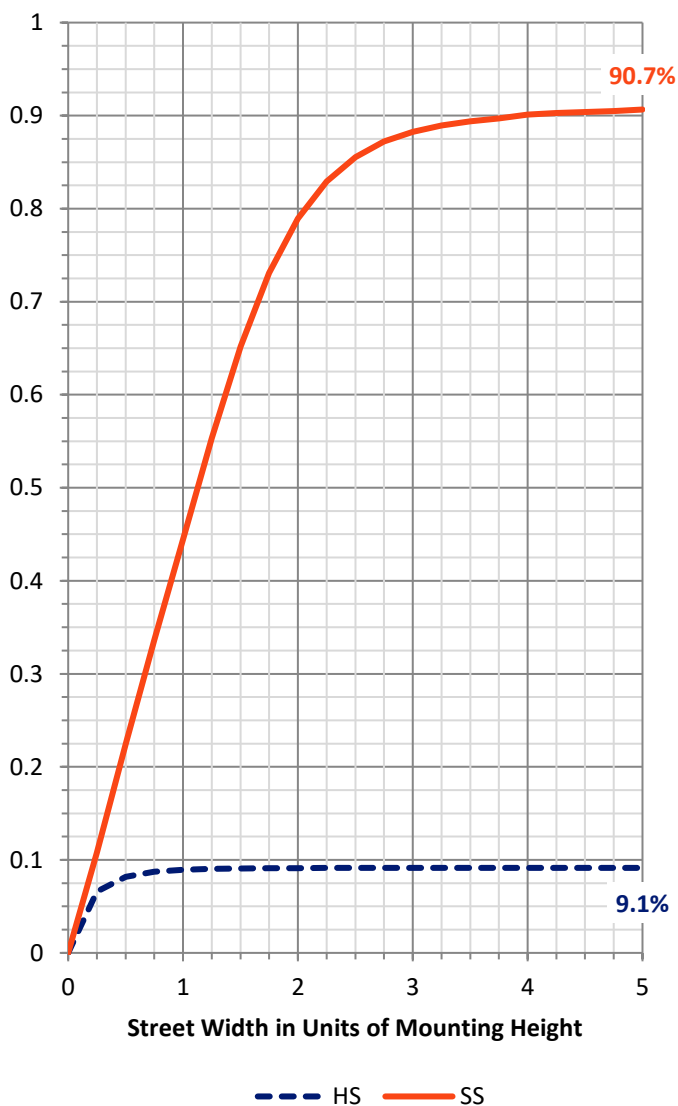
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4674.3	0.0	4674.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	46058.7	0.0	46058.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	50733.0	0.0	50733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	0.9
10°-20°	1413.4	2.8
20°-30°	2396.7	4.7
30°-40°	3984.8	7.9
40°-50°	6957.6	13.7
50°-60°	13592.7	26.8
60°-70°	15770.7	31.1
70°-80°	5742.9	11.3
80°-90°	404.6	0.8
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°	50733.0	100.0
0°-180°	50733.0	100.0

Coefficient of Utilization



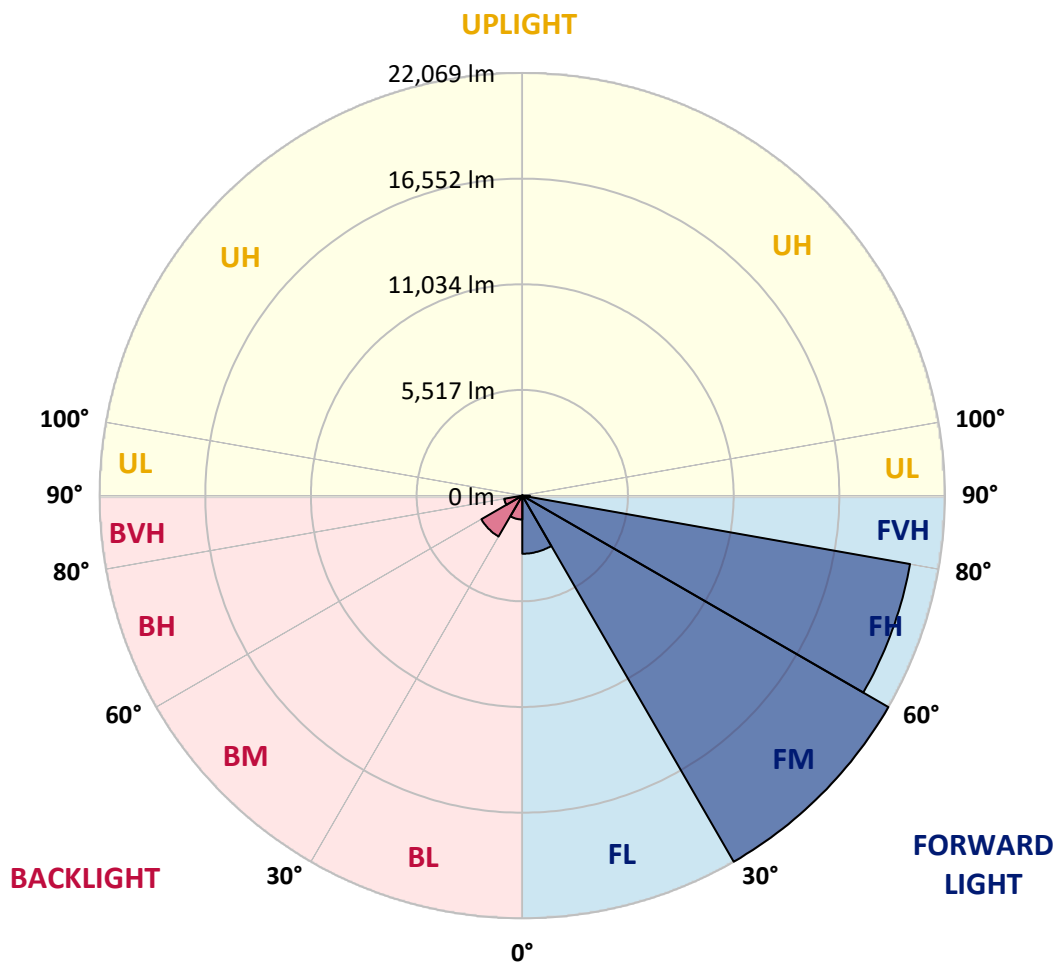
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3034.3	6.0			
FM	(30°-60°)	22068.9	43.5			
FH	(60°-80°)	20556.3	40.5			G5
FVH	(80°-90°)	399.1	0.8			G3/500
BL	(0°-30°)	1245.4	2.5	B3/2500		
BM	(30°-60°)	2466.2	4.9	B2/2500		
BH	(60°-80°)	957.2	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7
2.5°	5314.9	5291.6	5280.0	5217.9	5171.4	5113.3	5113.3	5039.6	4954.3	4861.3	4776.0
5°	5908.0	5869.2	5818.8	5764.5	5656.0	5500.9	5500.9	5345.9	5167.5	5008.6	4834.2
7.5°	6477.8	6443.0	6357.7	6253.0	6074.7	5911.9	5900.2	5675.4	5462.2	5221.8	4973.7
10°	6977.9	6950.8	6877.1	6675.5	6489.5	6276.3	6272.4	6020.4	5772.3	5477.7	5171.4
12.5°	7326.8	7330.7	7233.8	7040.0	6799.6	6598.0	6582.5	6334.4	6074.7	5756.8	5380.8
15°	7574.9	7574.9	7474.1	7257.0	7040.0	6861.6	6846.1	6629.0	6361.5	6016.5	5609.5
17.5°	7644.7	7668.0	7559.4	7365.6	7191.1	7036.1	7032.2	6850.0	6636.8	6303.4	5842.1
20°	7617.6	7640.8	7555.5	7404.4	7284.2	7195.0	7183.4	7109.7	6912.0	6598.0	6090.2
22.5°	7559.4	7582.7	7520.7	7431.5	7373.3	7400.5	7381.1	7443.1	7338.5	6958.5	6384.8
25°	7571.0	7594.3	7547.8	7497.4	7547.8	7714.5	7764.9	8032.4	7939.3	7416.0	6702.7
27.5°	7935.5	7982.0	7916.1	7939.3	8117.7	8505.3	8602.2	9063.5	8652.6	7997.5	7198.9
30°	8745.7	8714.7	8590.6	8703.0	9323.3	10145.1	10118.0	10044.3	9400.8	8668.1	7788.1
32.5°	9482.2	9455.1	9447.3	9931.9	11056.1	11455.4	11436.0	10722.7	10071.5	9435.7	8369.6
35°	9780.7	9676.1	9652.8	10827.4	12707.6	12180.4	12060.2	11001.9	10885.6	10273.1	8962.8
37.5°	10680.1	10606.4	10245.9	10974.7	12048.6	11874.1	11781.1	11482.6	11753.9	11013.5	9633.4
40°	12533.1	12327.7	12002.0	11288.7	11114.3	11187.9	11281.0	12098.9	12781.2	12025.3	10528.9
42.5°	14835.8	14789.3	14184.6	12854.9	11548.5	11649.3	11769.4	13386.0	14258.2	13548.8	11990.4
45°	17599.9	17665.8	16793.5	15223.5	13510.0	13595.3	13769.8	15285.5	16258.6	15917.4	14289.2
47.5°	20111.9	20061.5	19766.9	18134.9	16553.2	16363.2	16646.2	17723.9	19026.5	19080.7	17142.4
50°	22639.5	22907.0	22468.9	21829.3	20654.7	20255.4	20150.7	20677.9	22662.8	22403.0	20569.4
52.5°	26271.9	26411.4	25589.6	25426.8	25694.3	24399.5	24294.8	24422.7	26198.2	25306.6	23135.7
55°	28555.2	28473.8	28167.6	29439.1	30497.4	28880.9	28749.1	28233.5	29132.8	27357.3	25605.1
57.5°	29276.3	29392.6	30105.9	32404.7	34909.0	33536.7	33296.3	31831.0	31249.5	29268.5	27876.8
60°	28954.5	29167.7	30706.7	34125.9	37599.4	37393.9	37188.5	34726.8	32769.1	30865.7	29470.1
62.5°	26663.4	26961.9	29423.6	33819.7	38510.4	39793.6	39537.7	36533.3	33780.9	31641.0	29749.2
65°	22344.9	22565.8	26101.3	31040.1	37215.6	40615.4	40522.4	37099.3	33939.9	30931.6	27838.0
67.5°	15929.1	16681.1	19956.9	26159.5	33385.5	39212.1	39371.0	36420.9	32447.4	27865.2	23054.3
70°	10013.3	10525.0	12874.3	18728.0	26764.2	34401.2	34924.5	33315.7	28159.8	21720.7	15432.8
72.5°	4776.0	5155.9	6830.6	11854.7	18890.8	27066.6	27481.4	27349.6	21775.0	13684.5	7962.6
75°	2128.3	2271.7	3260.2	6051.4	12195.9	18193.0	19266.8	19445.2	13607.0	6694.9	3097.4
77.5°	1085.5	1089.3	1527.4	2930.7	6090.2	10854.6	11067.8	11691.9	7377.2	2950.1	1077.7
80°	577.6	616.4	810.2	1384.0	3159.4	5345.9	5318.7	5846.0	3271.9	1446.0	360.5
82.5°	259.7	286.9	457.4	724.9	1542.9	2027.5	2186.4	2391.9	1403.3	922.6	158.9
85°	77.5	93.0	224.8	364.4	558.2	585.4	655.1	845.1	794.7	655.1	81.4
87.5°	11.6	11.6	93.0	100.8	81.4	104.7	108.5	120.2	255.9	240.4	42.6
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°	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7	4721.7
2.5°	4729.5	4702.3	4605.4	4524.0	4454.2	4411.6	4361.2	4330.2	4314.7	4303.1	4306.9
5°	4748.9	4683.0	4516.3	4384.5	4283.7	4175.1	4101.5	4058.8	4039.4	4008.4	4008.4
7.5°	4857.4	4752.7	4520.1	4318.6	4144.1	3996.8	3857.2	3806.8	3772.0	3764.2	3756.4
10°	5012.5	4880.7	4562.8	4283.7	4035.6	3834.0	3636.3	3461.8	3326.1	3244.7	3233.1
12.5°	5206.3	5016.4	4628.7	4260.4	3942.5	3585.9	3062.5	2709.8	2473.3	2399.6	2411.3
15°	5384.6	5179.2	4694.6	4241.0	3772.0	2973.4	2380.2	1977.1	1856.9	1845.3	1849.2
17.5°	5597.8	5353.6	4772.1	4213.9	3302.9	2271.7	1767.7	1659.2	1682.5	1721.2	1717.3
20°	5818.8	5539.7	4865.2	4051.1	2636.1	1709.6	1562.3	1573.9	1608.8	1643.7	1651.4
22.5°	6055.3	5752.9	4973.7	3659.5	2012.0	1488.6	1480.9	1496.4	1531.3	1570.0	1577.8
25°	6380.9	6020.4	5055.1	3147.8	1523.5	1376.2	1391.7	1418.8	1449.9	1492.5	1500.3
27.5°	6799.6	6380.9	5097.8	2481.0	1318.1	1275.4	1279.3	1318.1	1356.8	1395.6	1395.6
30°	7342.3	6811.2	5012.5	1876.3	1217.3	1178.5	1163.0	1186.2	1236.6	1275.4	1279.3
32.5°	7826.9	7218.3	4787.6	1434.4	1143.6	1089.3	1050.6	1054.4	1073.8	1097.1	1101.0
35°	8311.5	7613.7	4403.8	1205.6	1066.1	1004.0	945.9	914.9	899.4	887.7	899.4
37.5°	8931.7	8106.0	3892.1	1097.1	1000.2	922.6	841.2	775.3	721.1	686.2	693.9
40°	9730.3	8788.3	3287.4	1027.3	938.1	845.1	736.6	651.3	558.2	527.2	511.7
42.5°	11048.4	9823.4	2651.6	969.2	876.1	763.7	628.0	511.7	426.4	395.4	403.2
45°	13130.1	11129.8	2043.0	907.1	814.1	674.5	527.2	403.2	333.4	317.9	325.6
47.5°	15890.3	12820.0	1573.9	837.4	736.6	577.6	414.8	317.9	275.2	271.4	267.5
50°	18487.6	14393.9	1314.2	759.8	643.5	480.7	341.1	267.5	240.4	236.5	236.5
52.5°	20836.9	15522.0	1069.9	670.7	542.7	395.4	286.9	236.5	213.2	201.6	201.6
55°	22926.4	16258.6	868.4	562.1	426.4	314.0	248.1	213.2	186.1	170.6	166.7
57.5°	24504.1	16347.7	651.3	449.7	317.9	244.2	213.2	186.1	155.1	135.7	127.9
60°	25178.7	15576.3	480.7	341.1	236.5	193.8	170.6	151.2	116.3	96.9	93.0
62.5°	24500.3	14076.0	356.6	259.7	182.2	143.4	120.2	112.4	81.4	58.1	54.3
65°	22069.6	11909.0	283.0	197.7	135.7	104.7	77.5	73.7	50.4	27.1	23.3
67.5°	17681.3	9327.2	224.8	147.3	96.9	69.8	50.4	46.5	27.1	7.8	7.8
70°	11498.1	5962.2	182.2	108.5	62.0	46.5	31.0	23.3	15.5	3.9	0.0
72.5°	5687.0	2787.3	147.3	85.3	42.6	23.3	11.6	7.8	11.6	0.0	0.0
75°	2205.8	992.4	108.5	58.1	23.3	11.6	7.8	0.0	3.9	0.0	0.0
77.5°	732.7	329.5	65.9	31.0	15.5	7.8	0.0	0.0	0.0	0.0	0.0
80°	271.4	127.9	34.9	19.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	108.5	50.4	23.3	15.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.3	31.0	15.5	11.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.8	23.3	15.5	11.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
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)