

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: P533207

Luminaire Tested: **GALN-SA8C-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37547 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

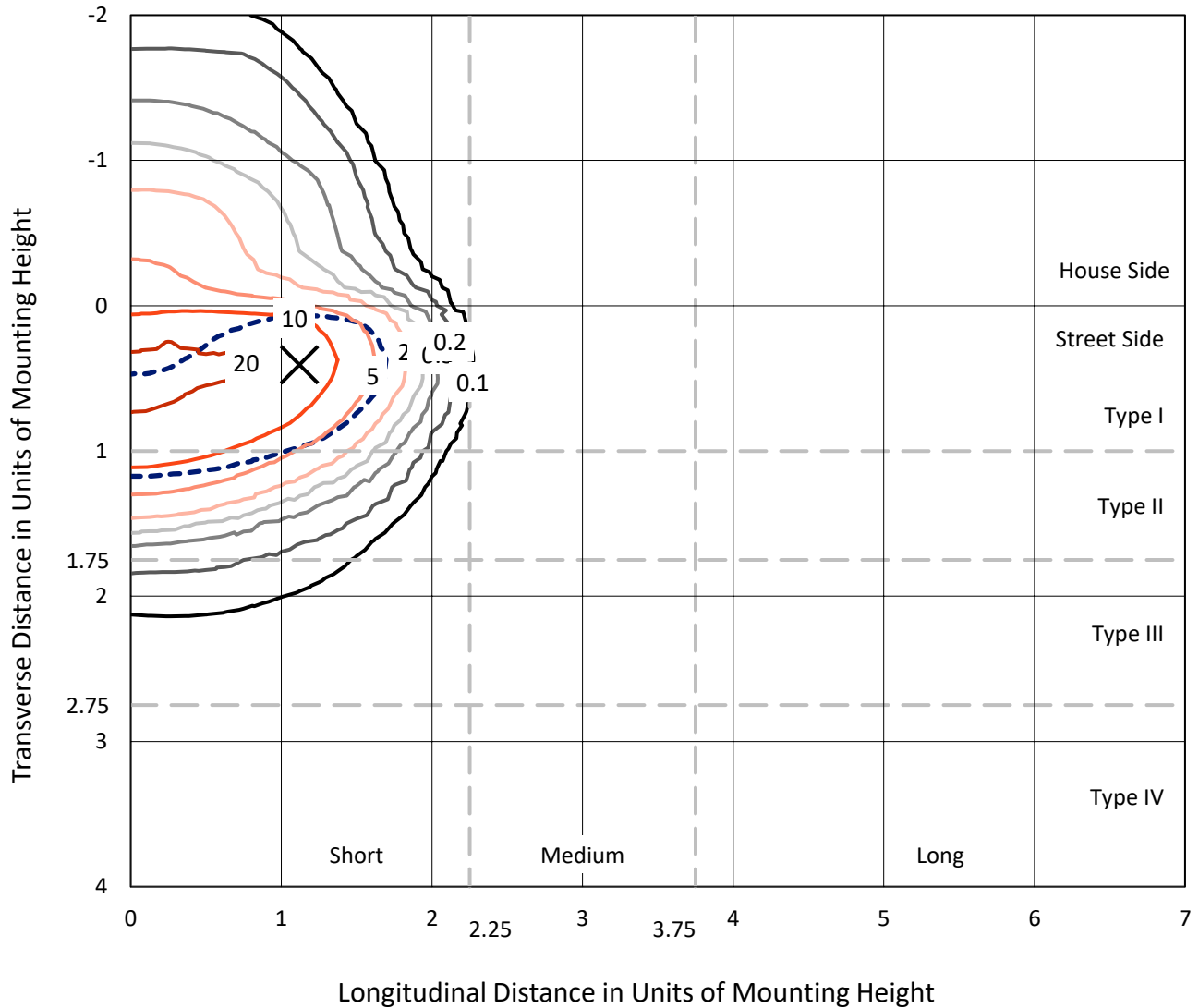
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

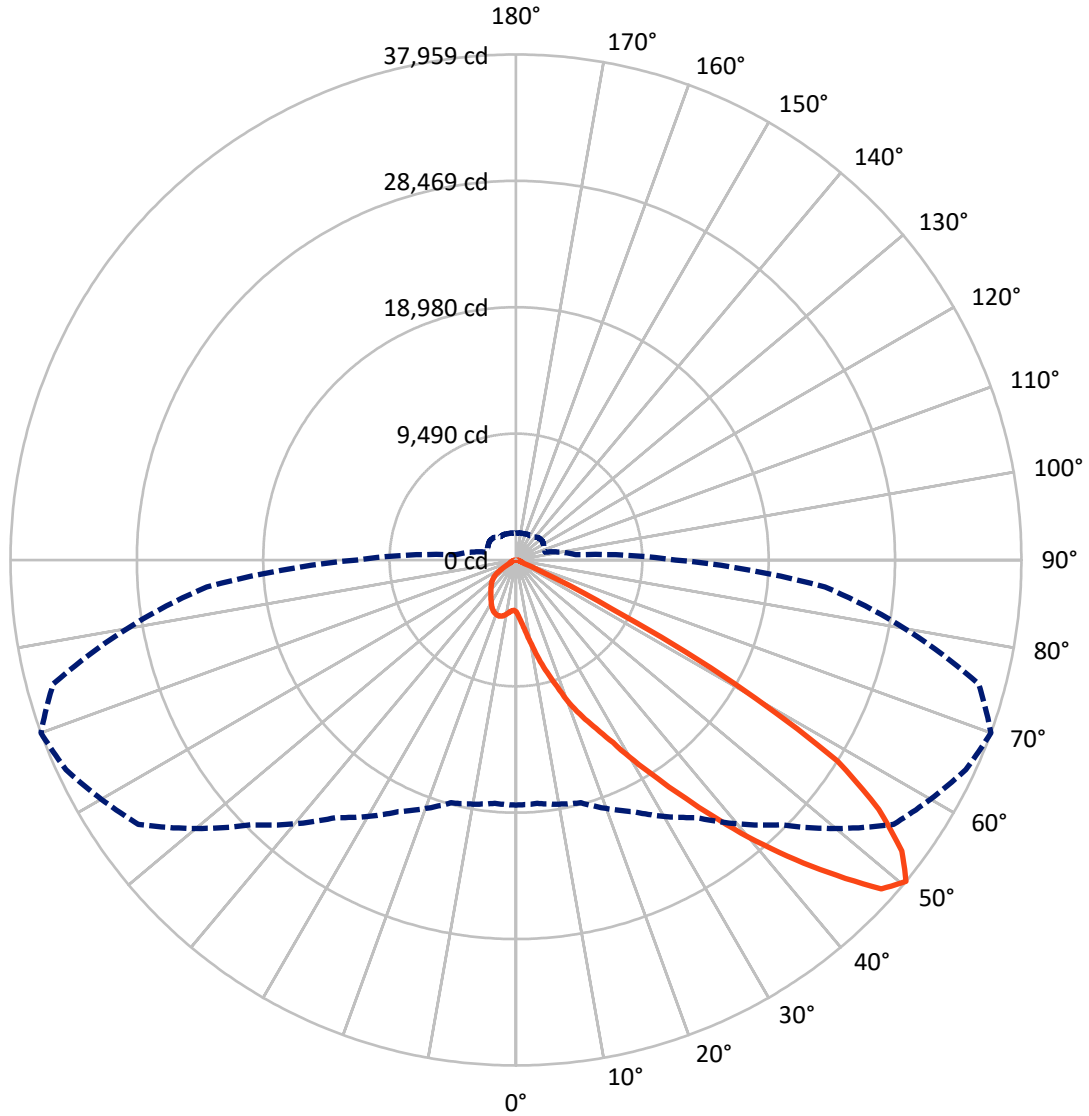
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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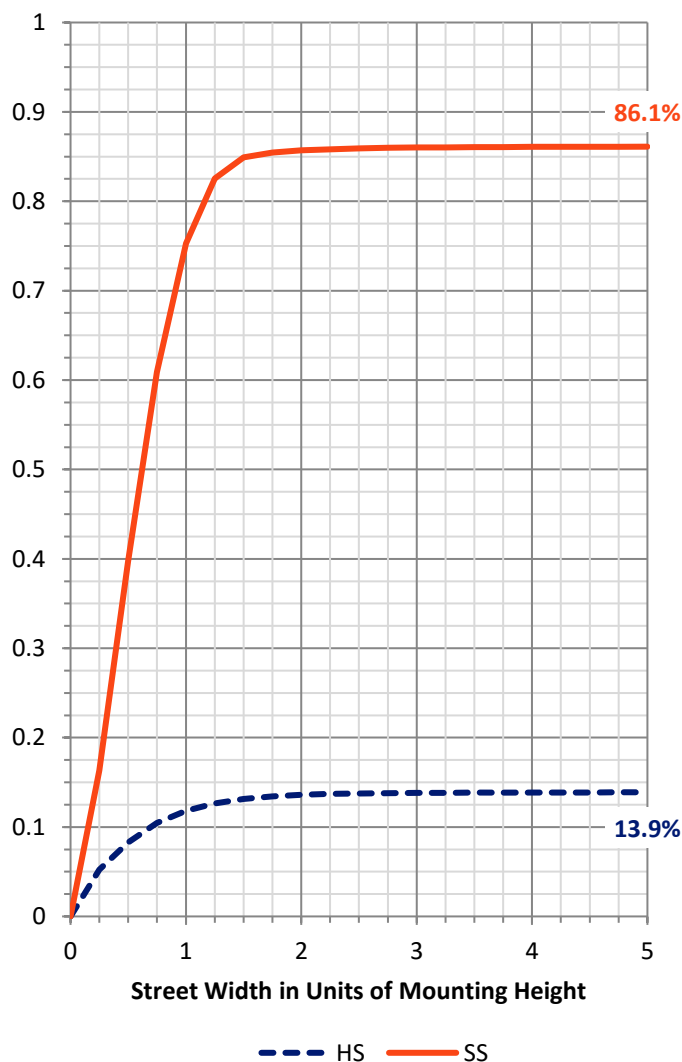
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5243.7	0.0	5243.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	32303.3	0.0	32303.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	37547.0	0.0	37547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	1.3
10°-20°	2187.6	5.8
20°-30°	4589.2	12.2
30°-40°	7910.3	21.1
40°-50°	11560.8	30.8
50°-60°	9004.0	24.0
60°-70°	1525.5	4.1
70°-80°	209.6	0.6
80°-90°	54.3	0.1
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°	37547.0	100.0
0°-180°	37547.0	100.0

Coefficient of Utilization



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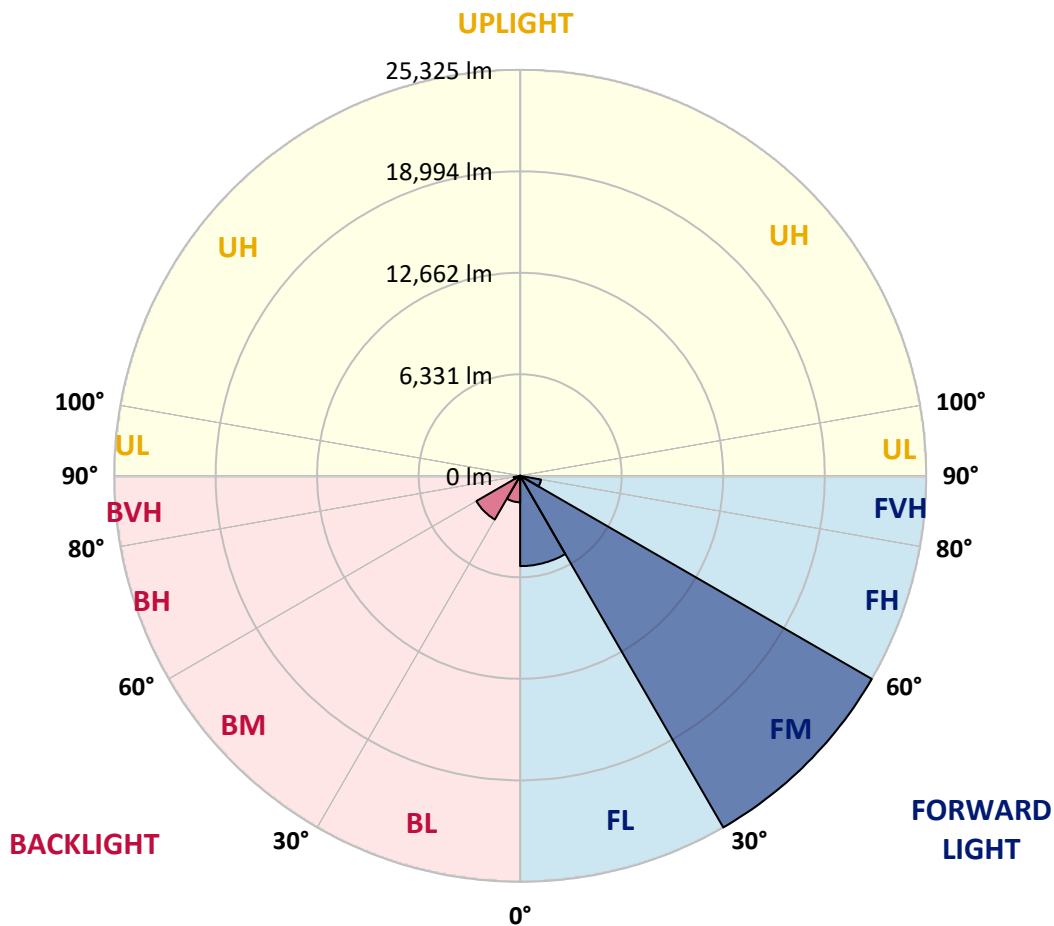
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5632.5	15.0			
FM (30°-60°)	25324.8	67.4			
FH (60°-80°)	1320.9	3.5			G1/1800
FVH (80°-90°)	25.1	0.1			G1/100
BL (0°-30°)	1650.1	4.4	B3/2500		
BM (30°-60°)	3150.2	8.4	B3/5000		
BH (60°-80°)	414.2	1.1	B1/500		G1/500
BVH (80°-90°)	29.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1
2.5°	5092.9	5055.9	4975.6	4827.5	4765.7	4617.6	4531.1	4364.5	4259.5	4142.2	4012.6
5°	7173.3	6981.9	6864.6	6697.9	6210.3	5907.8	5407.7	4981.8	4784.2	4568.2	4271.9
7.5°	9321.6	9198.1	9037.6	8679.6	8346.2	7716.5	6858.4	5920.1	5518.9	5148.5	4562.0
10°	11099.5	10753.8	10735.2	10469.8	10105.6	9352.4	8321.5	7154.8	6438.7	5895.4	4975.6
12.5°	12340.3	12025.4	12167.4	12136.6	11797.0	11105.6	9914.2	8370.9	7623.9	6778.2	5401.6
15°	13470.0	13340.3	13297.1	13260.1	13124.3	12611.9	11543.9	9852.5	8772.1	7753.6	5883.1
17.5°	14575.0	14241.6	14402.1	14433.0	14420.6	13957.7	12957.6	11260.0	9988.3	8784.5	6389.3
20°	15556.5	15587.4	15371.3	15328.1	15291.1	15272.6	14297.2	12655.1	11482.2	9864.8	7049.8
22.5°	16815.9	16599.8	16791.2	16667.7	16426.9	16278.8	15531.8	13889.7	12778.6	11167.4	7722.7
25°	18303.6	18476.5	18025.8	17976.4	17711.0	17198.6	16525.7	15272.6	14025.6	12377.3	8451.1
27.5°	20137.1	19834.6	19717.3	19445.6	18964.1	18748.1	17957.9	16698.6	15531.8	13649.0	9154.9
30°	21711.2	21631.0	21044.5	20723.5	20303.7	20297.6	19192.5	18630.8	17494.9	15642.9	10124.1
32.5°	22995.3	22643.4	22427.3	22205.1	21865.6	21958.2	21026.0	20729.7	19587.6	17494.9	11266.1
35°	23853.3	23600.2	23470.6	23131.1	23032.3	23445.9	23057.0	22933.5	21995.2	20100.0	12605.7
37.5°	24125.0	24205.2	24180.5	23754.6	23964.4	25081.8	25581.8	25260.8	24767.0	22847.1	14056.4
40°	24365.7	24421.3	24297.8	24797.8	25396.6	26668.3	28477.1	27946.2	27761.0	25631.2	16075.1
42.5°	24501.5	24458.3	24458.3	25322.6	26230.0	28785.7	31273.5	30921.7	30779.7	28594.4	18408.5
45°	23915.1	23495.3	23945.9	25118.8	26946.1	29829.0	33508.2	33995.9	33792.2	32119.3	21137.1
47.5°	21723.6	21982.8	22235.9	23803.9	26075.7	29508.0	34878.7	36539.3	36915.9	35082.4	22927.3
50°	18408.5	18353.0	18877.7	20853.1	23612.6	28125.2	34613.3	37273.9	37959.1	35971.4	23303.9
52.5°	13389.7	13797.2	14365.1	16328.2	19600.0	24544.7	31187.1	35378.7	36292.4	34878.7	23057.0
55°	7796.8	7346.1	8624.0	10284.6	13371.2	18513.5	26365.8	31360.0	33051.4	32890.9	21810.0
57.5°	3123.7	3024.9	3463.2	4667.0	6975.7	11476.0	19174.0	25767.0	28477.1	30125.3	19167.9
60°	1370.5	1339.6	1574.2	1901.4	2852.0	5290.5	10488.3	16025.7	18853.0	21050.7	13192.2
62.5°	987.7	975.4	1092.7	1210.0	1506.3	2302.6	4407.7	6457.2	8049.9	9722.8	5907.8
65°	796.3	827.2	907.5	969.2	1111.2	1277.9	1555.7	1796.4	2203.8	2284.1	1302.5
67.5°	648.2	672.9	747.0	814.9	839.6	691.4	716.1	629.7	629.7	561.8	450.6
70°	475.3	481.5	567.9	648.2	518.6	277.8	487.7	487.7	438.3	419.8	382.7
72.5°	351.9	358.0	426.0	401.3	203.7	172.9	358.0	395.1	358.0	339.5	308.7
75°	259.3	265.4	222.2	92.6	86.4	111.1	209.9	271.6	259.3	253.1	234.6
77.5°	49.4	37.0	30.9	43.2	61.7	92.6	135.8	166.7	172.9	185.2	172.9
80°	6.2	6.2	18.5	37.0	67.9	98.8	142.0	160.5	166.7	172.9	160.5
82.5°	0.0	6.2	18.5	37.0	67.9	92.6	123.5	142.0	154.3	160.5	154.3
85°	0.0	6.2	12.3	30.9	55.6	67.9	61.7	43.2	37.0	43.2	30.9
87.5°	0.0	0.0	6.2	6.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3
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°	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1
2.5°	3938.5	3913.8	3827.4	3734.8	3654.5	3691.6	3654.5	3623.7	3636.0	3623.7	3611.3
5°	4154.6	4043.5	3858.3	3778.0	3710.1	3703.9	3685.4	3679.2	3685.4	3685.4	3629.9
7.5°	4358.3	4179.3	3981.7	3895.3	3815.1	3821.2	3778.0	3778.0	3771.8	3741.0	3728.6
10°	4667.0	4426.2	4173.1	4018.8	3920.0	3901.5	3858.3	3815.1	3815.1	3815.1	3753.3
12.5°	5006.5	4704.0	4358.3	4179.3	4062.0	3969.4	3901.5	3889.1	3821.2	3808.9	3778.0
15°	5302.8	4920.1	4481.8	4234.8	4086.7	3963.2	3858.3	3790.4	3759.5	3741.0	3716.3
17.5°	5592.9	5105.3	4549.7	4234.8	4074.3	3932.3	3821.2	3759.5	3685.4	3697.8	3648.4
20°	5981.9	5302.8	4568.2	4154.6	3957.0	3821.2	3673.1	3642.2	3599.0	3561.9	3574.3
22.5°	6358.4	5444.8	4512.6	4055.8	3771.8	3611.3	3537.3	3500.2	3481.7	3450.8	3407.6
25°	6697.9	5599.1	4426.2	3876.8	3574.3	3457.0	3389.1	3382.9	3339.7	3339.7	3259.5
27.5°	7043.6	5654.7	4278.0	3666.9	3401.4	3333.5	3302.7	3290.3	3271.8	3228.6	3173.0
30°	7438.7	5673.2	4062.0	3450.8	3247.1	3173.0	3216.2	3247.1	3166.9	3086.6	3111.3
32.5°	7765.9	5630.0	3802.7	3247.1	3136.0	3099.0	3185.4	3216.2	3123.7	3037.2	2994.0
35°	8161.0	5525.0	3549.6	3086.6	3024.9	3099.0	3173.0	3173.0	2987.8	2882.9	2858.2
37.5°	8759.8	5407.7	3315.0	2950.8	2907.6	3061.9	3160.7	3092.8	2802.6	2673.0	2642.1
40°	9401.8	5333.7	3086.6	2815.0	2845.9	3000.2	3055.7	2845.9	2549.5	2469.3	2444.6
42.5°	10334.0	5185.5	2882.9	2697.7	2790.3	2913.8	2913.8	2537.2	2426.1	2382.9	2376.7
45°	11494.5	5080.6	2703.9	2598.9	2710.0	2740.9	2642.1	2376.7	2296.4	2284.1	2290.3
47.5°	12062.5	4876.8	2518.7	2481.6	2561.9	2568.1	2308.8	2247.1	2179.1	2160.6	2148.3
50°	11976.1	4512.6	2277.9	2327.3	2438.4	2376.7	2105.1	2117.4	2055.7	2049.5	2018.6
52.5°	11371.1	3938.5	2037.2	2154.5	2277.9	2098.9	1938.4	1926.0	1926.0	1845.8	1814.9
55°	10080.9	3173.0	1747.0	1895.2	2043.3	1765.5	1722.3	1710.0	1679.1	1605.0	1586.5
57.5°	7982.0	2327.3	1314.9	1475.4	1734.7	1500.1	1493.9	1438.4	1358.1	1302.5	1302.5
60°	4747.2	1339.6	827.2	901.3	1148.2	1216.1	1351.9	1327.2	1191.4	1105.0	1080.3
62.5°	2166.8	691.4	524.7	537.1	617.3	790.2	1061.8	1228.5	1037.1	888.9	876.6
65°	728.4	512.4	432.1	413.6	426.0	475.3	635.8	870.4	827.2	685.2	660.5
67.5°	444.5	456.8	407.4	376.6	376.6	370.4	364.2	395.1	487.7	475.3	481.5
70°	382.7	419.8	376.6	339.5	327.2	308.7	259.3	216.1	185.2	216.1	228.4
72.5°	308.7	333.4	321.0	290.1	259.3	234.6	185.2	142.0	104.9	92.6	92.6
75°	228.4	246.9	259.3	222.2	197.5	166.7	135.8	92.6	55.6	37.0	37.0
77.5°	166.7	185.2	191.4	172.9	148.2	117.3	86.4	61.7	30.9	12.3	12.3
80°	142.0	166.7	185.2	172.9	154.3	111.1	80.3	43.2	24.7	6.2	6.2
82.5°	135.8	166.7	185.2	166.7	148.2	104.9	80.3	49.4	18.5	6.2	6.2
85°	30.9	43.2	55.6	67.9	80.3	80.3	61.7	37.0	18.5	6.2	6.2
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	6.2	6.2	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)