

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: P651552

Luminaire Tested: **GALN-SA8D-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39189.8 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

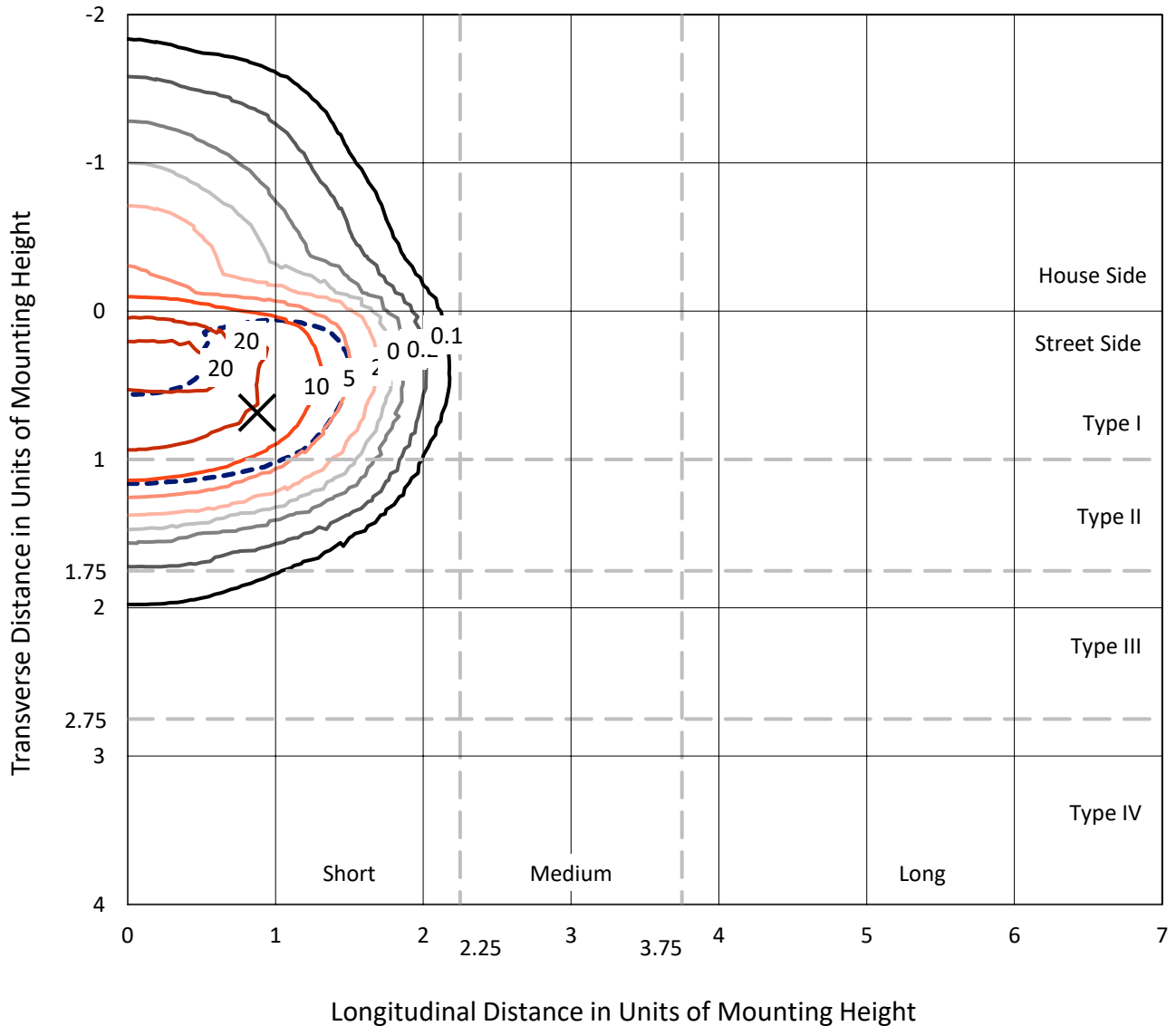
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651552
 CATALOG NUMBER: GALN-SA8D-840-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

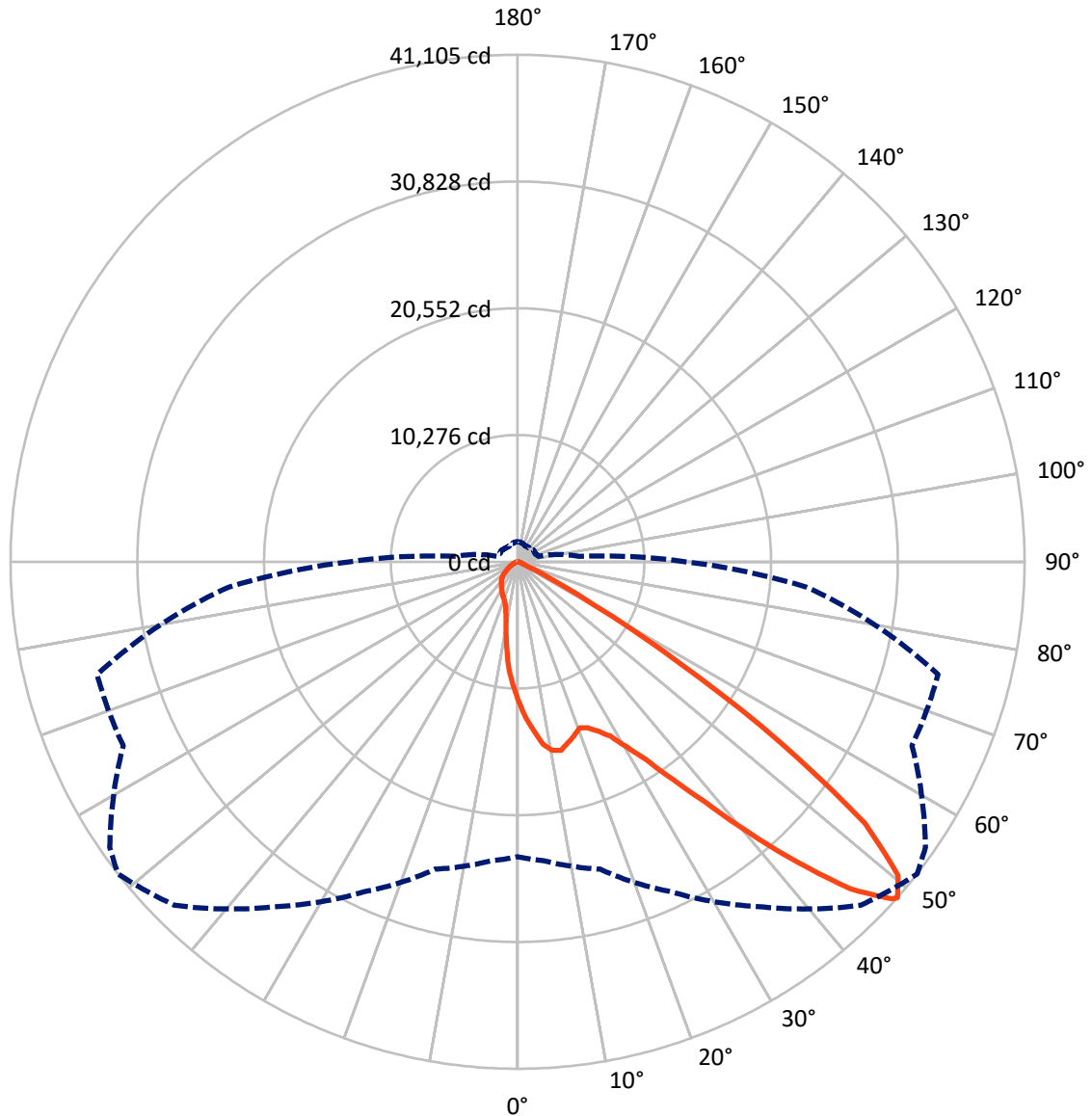
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

REPORT NUMBER: P651552
CATALOG NUMBER: GALN-SA8D-840-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P651552

CATALOG NUMBER: GALN-SA8D-840-U-AFL-GRSBK

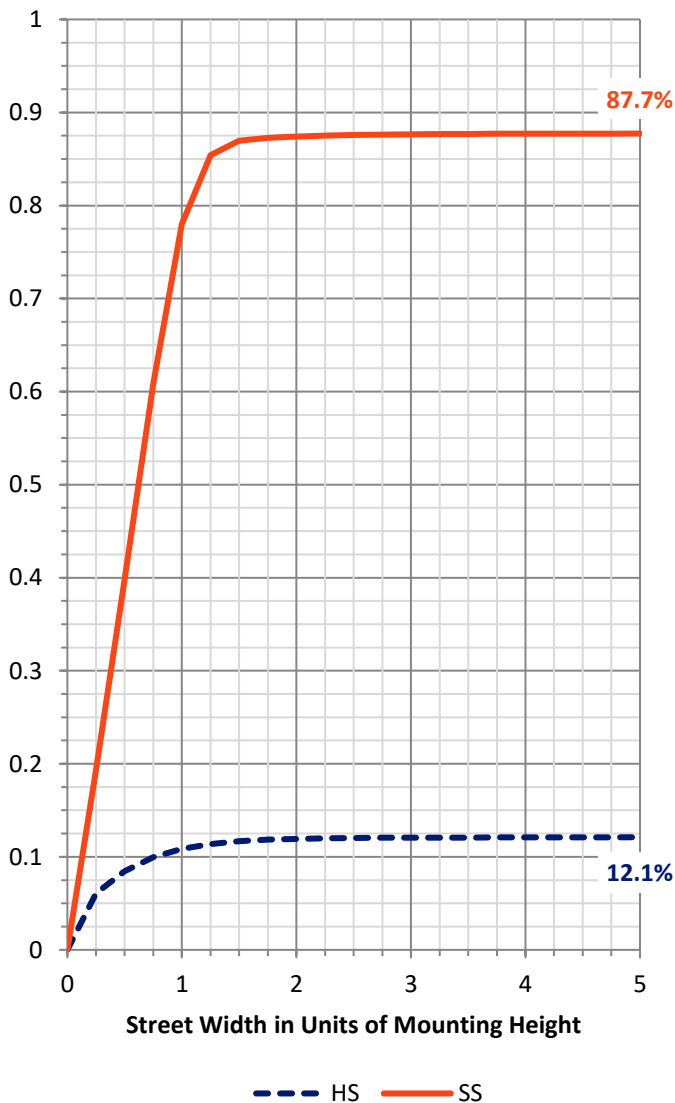
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4771.7	0.0	4771.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	34418.1	0.0	34418.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	39189.8	0.0	39189.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.9	2.6
10°-20°	2707.1	6.9
20°-30°	4622.1	11.8
30°-40°	8511.6	21.7
40°-50°	13218.5	33.7
50°-60°	7955.3	20.3
60°-70°	920.1	2.3
70°-80°	178.1	0.5
80°-90°	41.2	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°	39189.8	100.0
0°-180°	39189.8	100.0

Coefficient of Utilization



REPORT NUMBER: P651552

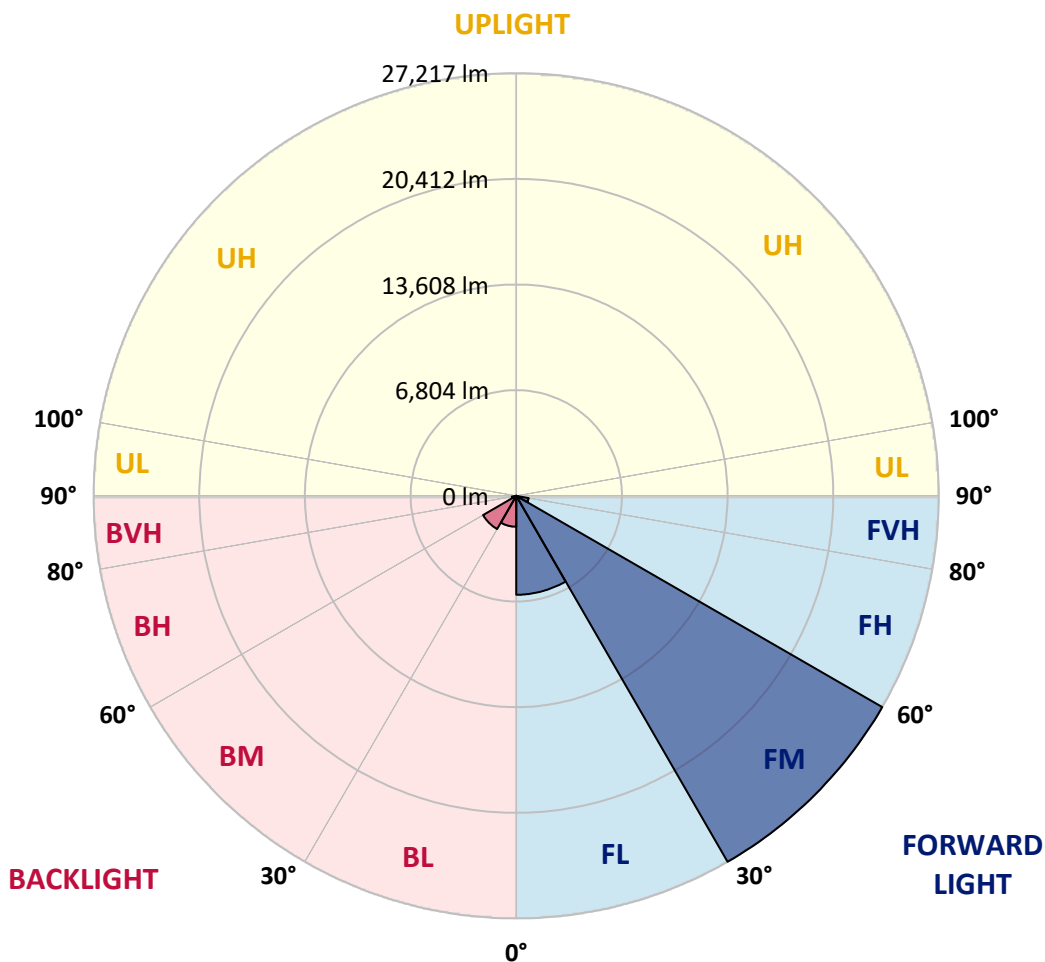
CATALOG NUMBER: GALN-SA8D-840-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6371.8	16.3			
FM (30°-60°)	27216.5	69.4			
FH (60°-80°)	810.2	2.1			G1/1800
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	1993.3	5.1	B3/2500		
BM (30°-60°)	2468.8	6.3	B2/2500		
BH (60°-80°)	288.0	0.7	B1/500		G1/500
BVH (80°-90°)	21.6	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 II Short





REPORT NUMBER: P651552

CATALOG NUMBER: GALN-SA8D-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3
2.5°	13716.8	13402.6	13431.1	13225.5	13105.5	12911.3	12648.5	12597.1	12311.4	11922.9	11528.8
5°	14950.8	14876.5	14973.7	14676.5	14688.0	14368.1	13751.1	13762.5	13105.5	12471.4	11860.1
7.5°	15030.8	14859.4	14956.5	15219.3	15373.6	15316.4	14967.9	14665.1	14042.4	13111.2	12220.0
10°	13459.7	13785.3	13888.2	14322.4	14939.4	15590.6	15550.7	15567.8	15047.9	13831.1	12528.5
12.5°	12517.1	12300.0	12648.5	12911.3	13842.4	15105.0	15682.0	15807.7	15847.7	14528.0	12837.0
15°	12088.6	12088.6	12145.7	12220.0	12894.1	14059.6	15236.4	15602.1	16464.7	15442.1	13322.6
17.5°	12357.1	12345.7	12425.7	12271.5	12522.7	13419.8	14825.1	15242.1	17156.0	16339.0	13705.4
20°	13174.1	13214.0	13162.7	12717.0	12734.2	13408.3	14368.1	15025.1	17624.4	17116.0	14213.8
22.5°	14311.0	14333.8	14042.4	13556.8	13414.0	13745.4	14630.9	15133.6	18001.5	18047.2	14368.1
25°	15624.9	15533.5	15476.4	14790.8	14356.6	14642.3	15225.0	15516.4	18235.7	18847.0	14808.0
27.5°	17447.4	17264.6	16916.0	16304.7	15984.8	15579.2	15996.2	16476.1	18904.2	19966.8	15287.9
30°	20138.2	19978.2	19298.3	18510.0	17670.2	17270.3	17401.6	17664.4	20109.6	21263.6	15922.0
32.5°	24188.6	23851.6	22868.9	21366.4	20223.9	19121.2	19087.0	19366.9	21189.3	23057.4	16676.1
35°	28650.4	28547.6	27102.2	25554.0	23343.1	21640.6	21669.2	21817.7	23257.4	25411.2	17664.4
37.5°	31615.5	32181.0	31261.2	29598.8	27742.1	25308.4	24691.3	24742.8	26096.7	28199.2	19446.9
40°	33906.3	33426.5	33535.0	33146.5	31878.3	30221.5	28856.1	28587.6	29381.7	31284.1	21217.9
42.5°	32906.6	32929.4	33597.9	34517.7	34831.9	34711.9	33317.9	32809.4	32192.5	33809.2	22903.2
45°	30084.4	30672.8	31541.2	33974.9	36111.5	38116.8	37842.6	36997.0	34134.8	35808.8	23874.4
47.5°	25582.5	25559.8	26982.2	30147.2	34894.7	39590.7	40836.2	40242.0	35511.7	35586.0	23674.5
48°	23920.1	24331.5	25799.7	29524.5	34123.4	39373.6	41104.6	40356.3	35277.4	35288.9	23503.1
50°	17681.6	17607.3	19435.4	24005.8	30478.6	36997.0	39973.5	40556.2	35271.7	33786.4	22303.3
52.5°	9340.7	9660.6	10991.7	15093.6	21549.3	30278.6	35260.4	36168.7	34026.4	31329.8	20578.0
55°	3970.5	3587.7	4610.4	6815.5	12122.8	20229.6	25868.2	27890.6	28770.4	27724.9	18001.5
57.5°	1416.8	1548.2	1782.4	2565.1	5096.0	11071.7	15424.9	16996.0	19932.5	20343.8	12265.7
60°	908.4	925.5	999.8	1176.9	1913.9	4267.6	7318.3	8569.5	9900.5	10220.5	5724.4
62.5°	702.7	708.4	742.7	771.3	908.4	1656.8	2748.0	3256.4	3382.1	2907.9	1502.5
65°	588.4	594.2	605.6	605.6	645.6	777.0	959.7	1056.9	1028.3	1016.9	851.3
67.5°	451.4	462.7	485.6	485.6	508.5	474.2	531.3	565.6	639.8	777.0	725.5
70°	354.2	359.9	377.0	388.5	388.5	342.8	382.7	417.1	468.4	577.0	571.3
72.5°	274.3	285.7	297.0	297.0	280.0	234.2	274.3	302.8	337.1	399.9	388.5
75°	211.3	211.3	217.1	177.1	137.1	120.0	165.7	200.0	251.4	262.8	217.1
77.5°	57.1	62.8	57.1	51.4	57.1	85.7	108.6	125.6	160.0	160.0	142.8
80°	0.0	5.7	17.2	34.3	57.1	80.0	97.1	108.6	125.6	137.1	131.4
82.5°	0.0	5.7	17.2	34.3	51.4	62.8	85.7	91.4	102.9	120.0	120.0
85°	0.0	5.7	11.4	22.9	34.3	40.0	40.0	34.3	34.3	28.6	22.9
87.5°	0.0	0.0	5.7	11.4	11.4	17.2	17.2	17.2	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651552

CATALOG NUMBER: GALN-SA8D-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3	11317.3
2.5°	11374.4	11197.4	10928.9	10506.1	10100.5	9837.7	9586.3	9306.4	9152.2	9140.7	9055.0
5°	11511.6	11111.7	10471.8	9746.3	8969.3	8300.9	7626.8	7186.8	6792.7	6575.6	6535.6
7.5°	11585.9	11066.0	10032.0	8815.1	7489.7	6398.5	5644.4	5090.2	4873.2	4713.2	4707.5
10°	11740.1	10986.0	9375.0	7581.1	5941.5	4838.9	4319.0	4067.6	3947.7	3901.9	3833.4
12.5°	11854.4	10837.5	8700.8	6312.8	4696.1	4010.5	3782.0	3724.9	3730.6	3753.4	3724.9
15°	12014.4	10706.1	7792.5	5181.7	3941.9	3610.6	3610.6	3622.0	3702.0	3713.4	3707.7
17.5°	12002.9	10449.0	6855.6	4267.6	3484.9	3439.2	3456.3	3564.9	3616.3	3633.5	3593.4
20°	12140.0	10209.1	5890.0	3644.9	3227.8	3296.4	3410.6	3439.2	3502.0	3513.4	3467.8
22.5°	12100.1	9609.2	4993.1	3153.6	3033.6	3164.9	3279.2	3313.5	3296.4	3262.1	3256.4
25°	12025.8	9095.0	4170.4	2827.9	2890.8	3033.6	3142.1	3079.2	3045.0	3050.7	3056.4
27.5°	11894.3	8443.7	3490.6	2599.4	2696.5	2907.9	2902.2	2879.3	2913.6	2885.1	2913.6
30°	11871.5	7792.5	2930.7	2393.7	2553.7	2707.9	2719.4	2759.3	2799.4	2748.0	2799.4
32.5°	11905.8	7078.4	2530.8	2268.0	2468.0	2473.7	2599.4	2639.4	2610.8	2496.6	2507.9
35°	12168.6	6529.9	2239.5	2199.5	2330.9	2336.6	2456.6	2405.2	2279.4	2210.9	2250.9
37.5°	12722.7	6072.9	2102.3	2136.6	2148.1	2222.3	2228.1	2125.2	2136.6	2130.9	2153.8
40°	13431.1	5724.4	2005.3	2079.5	2068.1	2119.5	1913.9	1971.0	2022.4	2039.5	2050.9
42.5°	13916.8	5473.0	1942.4	1988.1	1965.2	1873.8	1759.6	1816.7	1856.7	1919.6	1930.9
45°	14133.8	5273.1	1868.1	1828.2	1828.2	1662.5	1616.7	1628.2	1719.6	1788.1	1776.7
47.5°	13779.6	5078.8	1736.7	1616.7	1656.8	1519.6	1468.2	1468.2	1565.4	1651.1	1633.9
48°	13642.5	4998.8	1742.5	1571.1	1599.7	1496.8	1445.3	1434.0	1542.5	1622.5	1622.5
50°	12962.7	4701.8	1593.9	1445.3	1388.2	1376.8	1342.6	1354.0	1422.6	1496.8	1496.8
52.5°	11637.3	4061.9	1348.3	1239.7	1136.9	1205.4	1222.6	1199.7	1234.0	1302.5	1296.8
55°	9712.0	3119.3	1079.8	1028.3	948.3	1022.7	1056.9	1028.3	994.1	1045.4	1045.4
57.5°	6221.4	1679.6	862.6	874.1	794.1	868.3	896.9	828.4	765.6	805.5	799.8
60°	2805.1	1005.5	708.4	691.3	639.8	725.5	771.3	691.3	605.6	634.1	662.7
62.5°	1051.2	714.1	537.0	525.6	514.2	594.2	617.0	554.1	468.4	485.6	491.3
65°	771.3	628.4	428.5	388.5	411.3	468.4	457.0	394.2	337.1	337.1	348.5
67.5°	657.0	548.4	348.5	302.8	302.8	308.5	285.7	251.4	234.2	245.7	257.1
70°	514.2	434.2	274.3	234.2	211.3	188.6	165.7	160.0	142.8	160.0	154.2
72.5°	331.4	291.3	211.3	177.1	160.0	131.4	108.6	102.9	85.7	80.0	80.0
75°	177.1	177.1	165.7	142.8	125.6	102.9	85.7	68.5	45.7	34.3	34.3
77.5°	125.6	137.1	148.5	137.1	114.3	85.7	68.5	45.7	22.9	11.4	11.4
80°	120.0	137.1	148.5	131.4	114.3	85.7	62.8	34.3	17.2	5.7	5.7
82.5°	108.6	125.6	137.1	120.0	102.9	74.3	57.1	34.3	17.2	5.7	5.7
85°	22.9	28.6	34.3	34.3	40.0	51.4	40.0	28.6	11.4	5.7	5.7
87.5°	17.2	17.2	17.2	17.2	17.2	17.2	11.4	11.4	5.7	5.7	5.7
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)