

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: P532439

Luminaire Tested: **GALN-SA7D-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532439
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-SA7D-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 40195 lumens
Efficiency: N/A
Efficacy: 92.8 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

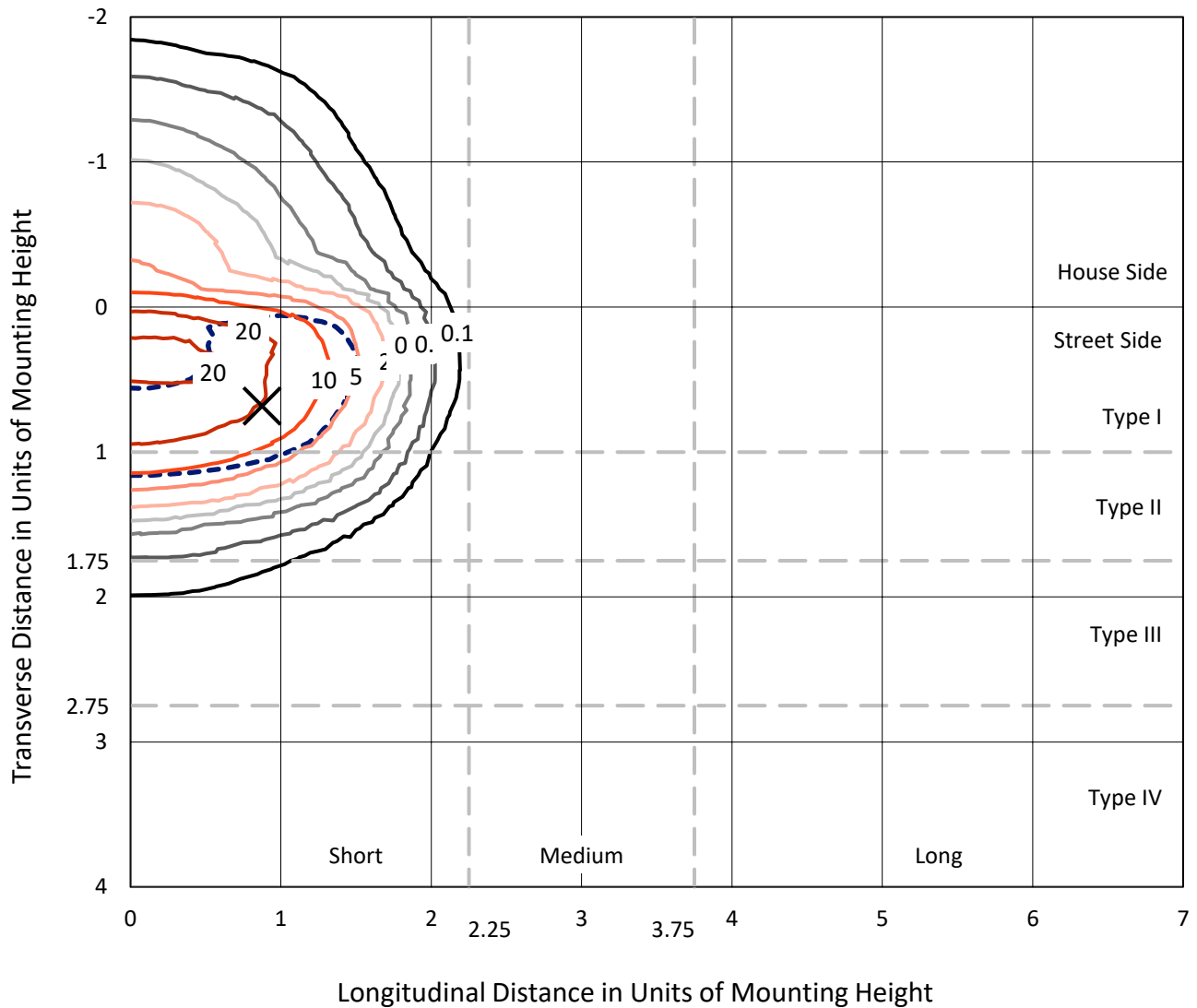
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532439
 CATALOG NUMBER: GALN-SA7D-740-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

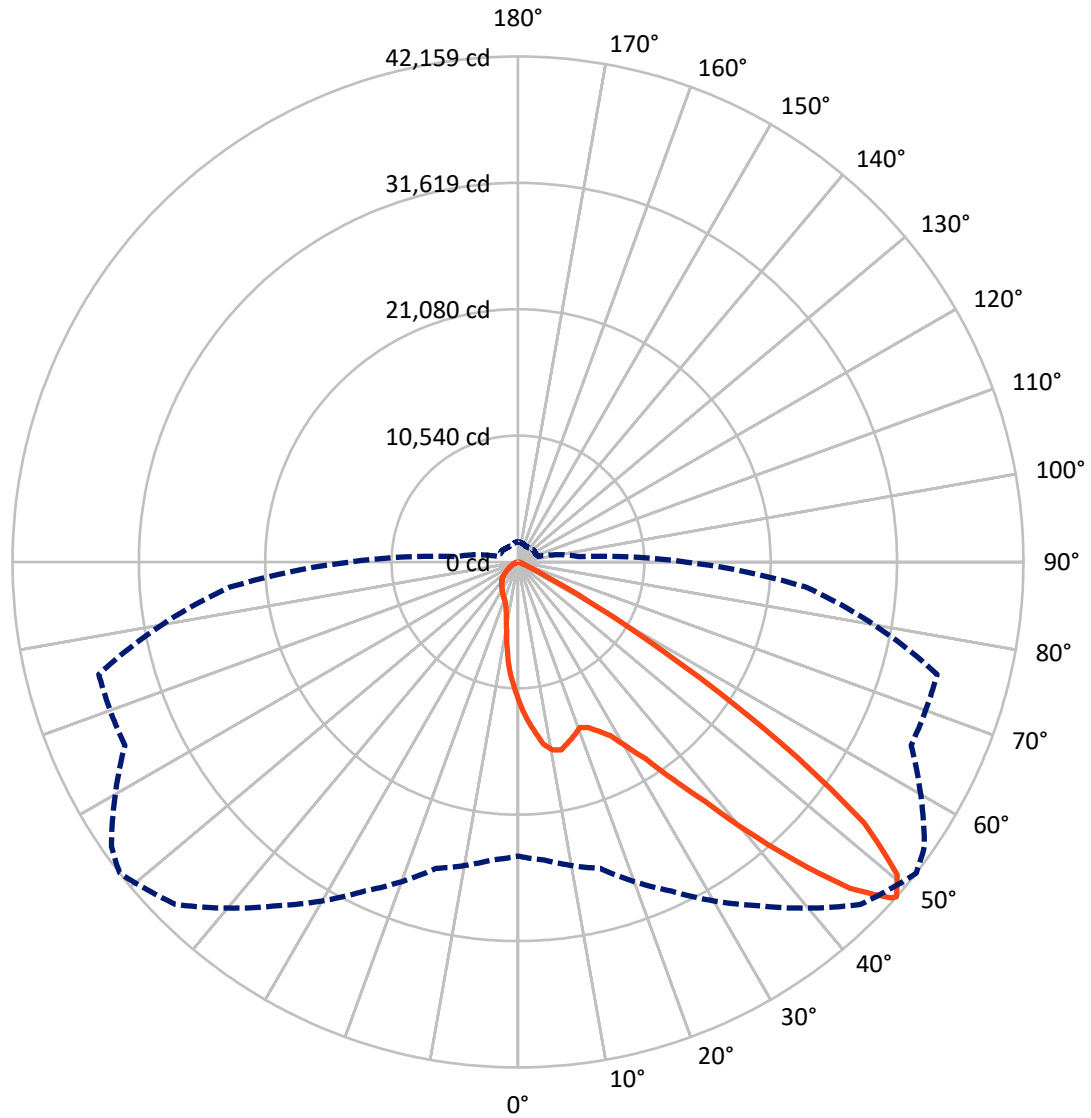
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc
 Type II - Short - N/A

REPORT NUMBER: P532439
CATALOG NUMBER: GALN-SA7D-740-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P532439
 CATALOG NUMBER: GALN-SA7D-740-U-AFL-GRSBK

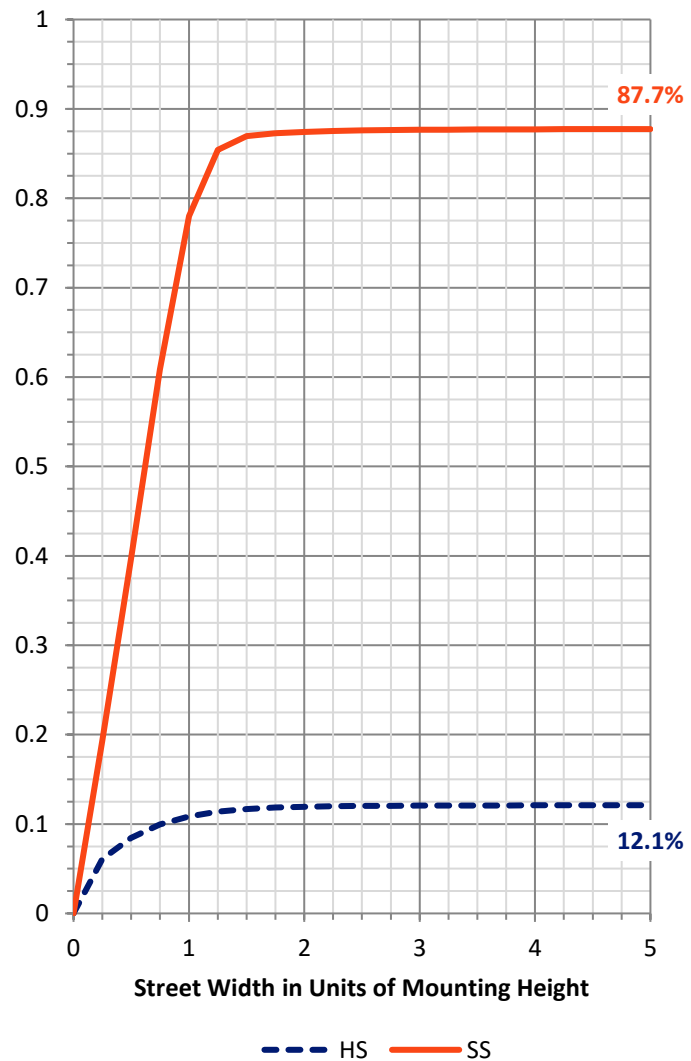
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4894.1	0.0	4894.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	35300.9	0.0	35300.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	40195.0	0.0	40195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.4	2.6
10°-20°	2776.5	6.9
20°-30°	4740.7	11.8
30°-40°	8729.9	21.7
40°-50°	13557.5	33.7
50°-60°	8159.3	20.3
60°-70°	943.7	2.3
70°-80°	182.7	0.5
80°-90°	42.3	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°	40195.0	100.0
0°-180°	40195.0	100.0



REPORT NUMBER: P532439

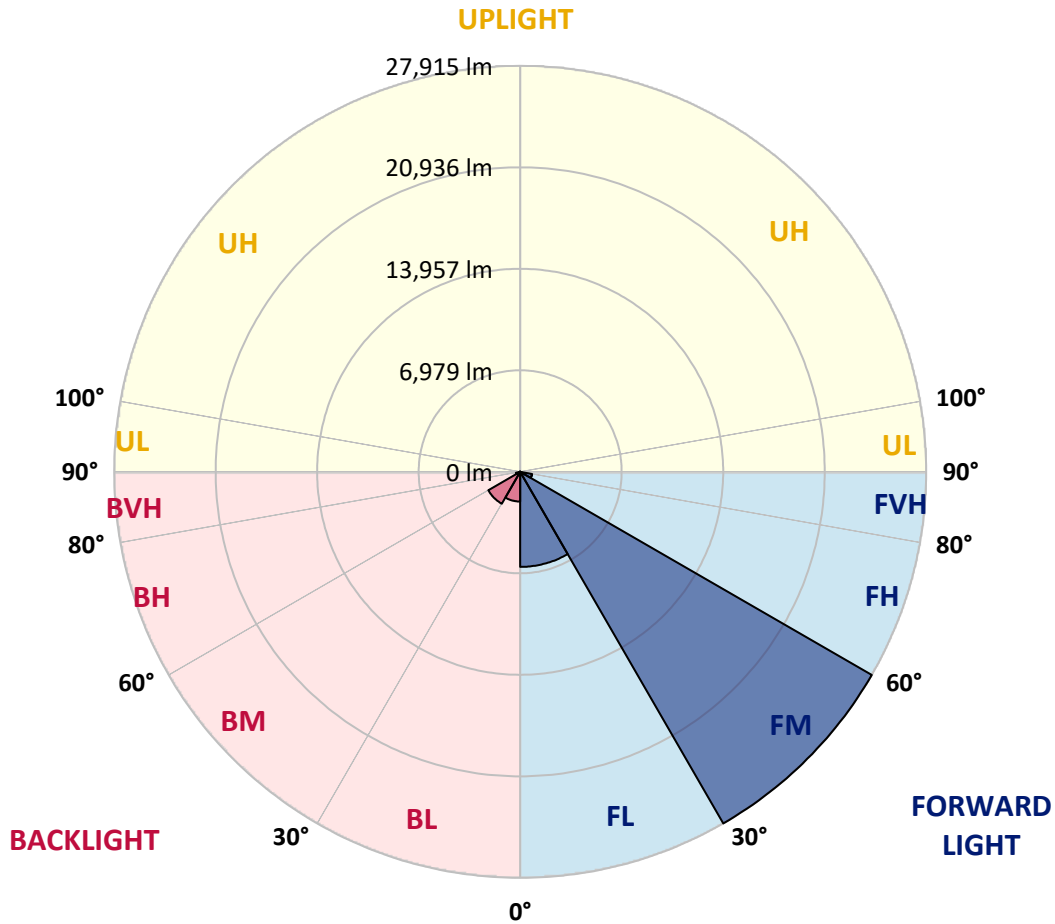
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6535.2	16.3			
FM (30°-60°)	27914.6	69.4			
FH (60°-80°)	831.0	2.1			G1/1800
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	2044.4	5.1	B3/2500		
BM (30°-60°)	2532.1	6.3	B3/5000		
BH (60°-80°)	295.4	0.7	B1/500		G1/500
BVH (80°-90°)	22.1	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: P532439

CATALOG NUMBER: GALN-SA7D-740-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6
2.5°	14068.6	13746.4	13775.7	13564.7	13441.7	13242.4	12972.9	12920.2	12627.2	12228.8	11824.4
5°	15334.3	15258.1	15357.7	15053.0	15064.7	14736.6	14103.8	14115.5	13441.7	12791.3	12164.3
7.5°	15416.3	15240.5	15340.1	15609.7	15767.9	15709.3	15351.9	15041.3	14402.6	13447.5	12533.4
10°	13805.0	14138.9	14244.4	14689.7	15322.6	15990.5	15949.5	15967.1	15433.9	14185.8	12849.9
12.5°	12838.1	12615.5	12972.9	13242.4	14197.5	15492.5	16084.3	16213.2	16254.2	14900.7	13166.3
15°	12398.7	12398.7	12457.3	12533.4	13224.9	14420.2	15627.3	16002.3	16887.0	15838.2	13664.3
17.5°	12674.1	12662.4	12744.4	12586.2	12844.0	13763.9	15205.4	15633.1	17596.0	16758.1	14056.9
20°	13512.0	13553.0	13500.3	13043.2	13060.8	13752.2	14736.6	15410.5	18076.5	17555.0	14578.4
22.5°	14678.0	14701.5	14402.6	13904.6	13758.1	14097.9	15006.2	15521.8	18463.3	18510.1	14736.6
25°	16025.7	15932.0	15873.4	15170.2	14724.9	15017.9	15615.5	15914.4	18703.5	19330.5	15187.8
27.5°	17894.9	17707.4	17349.9	16723.0	16394.9	15978.8	16406.6	16898.8	19389.1	20478.9	15680.0
30°	20654.7	20490.6	19793.4	18984.7	18123.4	17713.2	17848.0	18117.5	20625.4	21809.0	16330.4
32.5°	24809.1	24463.4	23455.5	21914.5	20742.6	19611.7	19576.6	19863.7	21732.8	23648.9	17103.8
35°	29385.3	29279.9	27797.4	26209.5	23941.9	22195.7	22225.0	22377.4	23854.0	26063.0	18117.5
37.5°	32426.4	33006.5	32063.1	30358.0	28453.7	25957.5	25324.7	25377.4	26766.1	28922.4	19945.7
40°	34776.1	34283.9	34395.2	33996.8	32696.0	30996.7	29596.3	29320.9	30135.4	32086.6	21762.1
42.5°	33750.7	33774.1	34459.7	35403.0	35725.3	35602.3	34172.5	33651.0	33018.2	34676.5	23490.7
45°	30856.1	31459.6	32350.2	34846.4	37037.8	39094.5	38813.3	37946.1	35010.4	36727.3	24486.8
47.5°	26238.8	26215.4	27674.4	30920.5	35789.8	40606.3	41883.6	41274.2	36422.6	36498.8	24281.7
48°	24533.7	24955.6	26461.5	30281.8	34998.7	40383.6	42159.0	41391.4	36182.3	36194.1	24105.9
50°	18135.1	18058.9	19934.0	24621.6	31260.4	37946.1	40998.8	41596.5	36176.5	34653.0	22875.4
52.5°	9580.3	9908.4	11273.7	15480.8	22102.0	31055.3	36164.8	37096.4	34899.1	32133.4	21105.9
55°	4072.3	3679.8	4728.6	6990.4	12433.8	20748.5	26531.8	28606.0	29508.4	28436.1	18463.3
57.5°	1453.2	1587.9	1828.2	2630.9	5226.7	11355.7	15820.6	17432.0	20443.8	20865.6	12580.3
60°	931.7	949.2	1025.4	1207.1	1962.9	4377.0	7506.0	8789.2	10154.5	10482.6	5871.2
62.5°	720.7	726.6	761.7	791.0	931.7	1699.3	2818.4	3339.9	3468.8	2982.5	1541.0
65°	603.5	609.4	621.1	621.1	662.1	796.9	984.4	1084.0	1054.7	1043.0	873.1
67.5°	462.9	474.6	498.1	498.1	521.5	486.3	544.9	580.1	656.3	796.9	744.2
70°	363.3	369.1	386.7	398.4	398.4	351.6	392.6	427.7	480.5	591.8	585.9
72.5°	281.3	293.0	304.7	304.7	287.1	240.2	281.3	310.6	345.7	410.2	398.4
75°	216.8	216.8	222.7	181.6	140.6	123.0	169.9	205.1	257.8	269.5	222.7
77.5°	58.6	64.5	58.6	52.7	58.6	87.9	111.3	128.9	164.1	164.1	146.5
80°	0.0	5.9	17.6	35.2	58.6	82.0	99.6	111.3	128.9	140.6	134.8
82.5°	0.0	5.9	17.6	35.2	52.7	64.5	87.9	93.8	105.5	123.0	123.0
85°	0.0	5.9	11.7	23.4	35.2	41.0	41.0	35.2	35.2	29.3	23.4
87.5°	0.0	0.0	5.9	11.7	11.7	17.6	17.6	17.6	17.6	17.6	17.6
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: P532439

CATALOG NUMBER: GALN-SA7D-740-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6	11607.6
2.5°	11666.2	11484.6	11209.2	10775.6	10359.6	10090.0	9832.2	9545.1	9386.9	9375.2	9287.3
5°	11806.9	11396.7	10740.4	9996.3	9199.4	8513.8	7822.4	7371.2	6966.9	6744.3	6703.3
7.5°	11883.0	11349.8	10289.3	9041.2	7681.8	6562.6	5789.2	5220.8	4998.1	4834.1	4828.2
10°	12041.3	11267.8	9615.4	7775.5	6093.9	4963.0	4429.8	4172.0	4048.9	4002.0	3931.7
12.5°	12158.4	11115.5	8924.0	6474.7	4816.5	4113.4	3879.0	3820.4	3826.2	3849.7	3820.4
15°	12322.5	10980.7	7992.3	5314.6	4043.0	3703.2	3703.2	3714.9	3796.9	3808.7	3802.8
17.5°	12310.8	10717.0	7031.4	4377.0	3574.3	3527.4	3545.0	3656.3	3709.1	3726.6	3685.6
20°	12451.4	10470.9	6041.1	3738.4	3310.6	3380.9	3498.1	3527.4	3591.9	3603.6	3556.7
22.5°	12410.4	9855.7	5121.2	3234.4	3111.4	3246.2	3363.3	3398.5	3380.9	3345.8	3339.9
25°	12334.2	9328.3	4277.4	2900.4	2964.9	3111.4	3222.7	3158.3	3123.1	3129.0	3134.8
27.5°	12199.5	8660.3	3580.1	2666.1	2765.7	2982.5	2976.6	2953.2	2988.3	2959.0	2988.3
30°	12176.0	7992.3	3005.9	2455.1	2619.2	2777.4	2789.1	2830.1	2871.1	2818.4	2871.1
32.5°	12211.2	7259.9	2595.8	2326.2	2531.3	2537.2	2666.1	2707.1	2677.8	2560.6	2572.3
35°	12480.7	6697.4	2296.9	2255.9	2390.7	2396.5	2519.6	2466.8	2337.9	2267.6	2308.6
37.5°	13049.1	6228.6	2156.3	2191.4	2203.2	2279.3	2285.2	2179.7	2191.4	2185.6	2209.0
40°	13775.7	5871.2	2056.7	2132.9	2121.1	2173.9	1962.9	2021.5	2074.3	2091.8	2103.6
42.5°	14273.7	5613.4	1992.2	2039.1	2015.7	1921.9	1804.7	1863.3	1904.3	1968.8	1980.5
45°	14496.4	5408.3	1916.1	1875.0	1875.0	1705.1	1658.2	1670.0	1763.7	1834.0	1822.3
47.5°	14133.1	5209.1	1781.3	1658.2	1699.3	1558.6	1505.9	1505.9	1605.5	1693.4	1675.8
48°	13992.5	5127.1	1787.1	1611.4	1640.7	1535.2	1482.5	1470.7	1582.1	1664.1	1664.1
50°	13295.2	4822.4	1634.8	1482.5	1423.9	1412.1	1377.0	1388.7	1459.0	1535.2	1535.2
52.5°	11935.8	4166.1	1382.8	1271.5	1166.0	1236.4	1253.9	1230.5	1265.6	1336.0	1330.1
55°	9961.1	3199.3	1107.4	1054.7	972.7	1048.8	1084.0	1054.7	1019.6	1072.3	1072.3
57.5°	6381.0	1722.7	884.8	896.5	814.5	890.6	919.9	849.6	785.2	826.2	820.3
60°	2877.0	1031.3	726.6	709.0	656.3	744.2	791.0	709.0	621.1	650.4	679.7
62.5°	1078.1	732.4	550.8	539.1	527.4	609.4	632.8	568.4	480.5	498.1	503.9
65°	791.0	644.5	439.5	398.4	421.9	480.5	468.8	404.3	345.7	345.7	357.4
67.5°	673.8	562.5	357.4	310.6	310.6	316.4	293.0	257.8	240.2	252.0	263.7
70°	527.4	445.3	281.3	240.2	216.8	193.4	169.9	164.1	146.5	164.1	158.2
72.5°	339.9	298.8	216.8	181.6	164.1	134.8	111.3	105.5	87.9	82.0	82.0
75°	181.6	181.6	169.9	146.5	128.9	105.5	87.9	70.3	46.9	35.2	35.2
77.5°	128.9	140.6	152.3	140.6	117.2	87.9	70.3	46.9	23.4	11.7	11.7
80°	123.0	140.6	152.3	134.8	117.2	87.9	64.5	35.2	17.6	5.9	5.9
82.5°	111.3	128.9	140.6	123.0	105.5	76.2	58.6	35.2	17.6	5.9	5.9
85°	23.4	29.3	35.2	35.2	41.0	52.7	41.0	29.3	11.7	5.9	5.9
87.5°	17.6	17.6	17.6	17.6	17.6	17.6	11.7	11.7	5.9	5.9	5.9
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)