

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: P532402

Luminaire Tested: **GALN-SA7D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43121 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

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

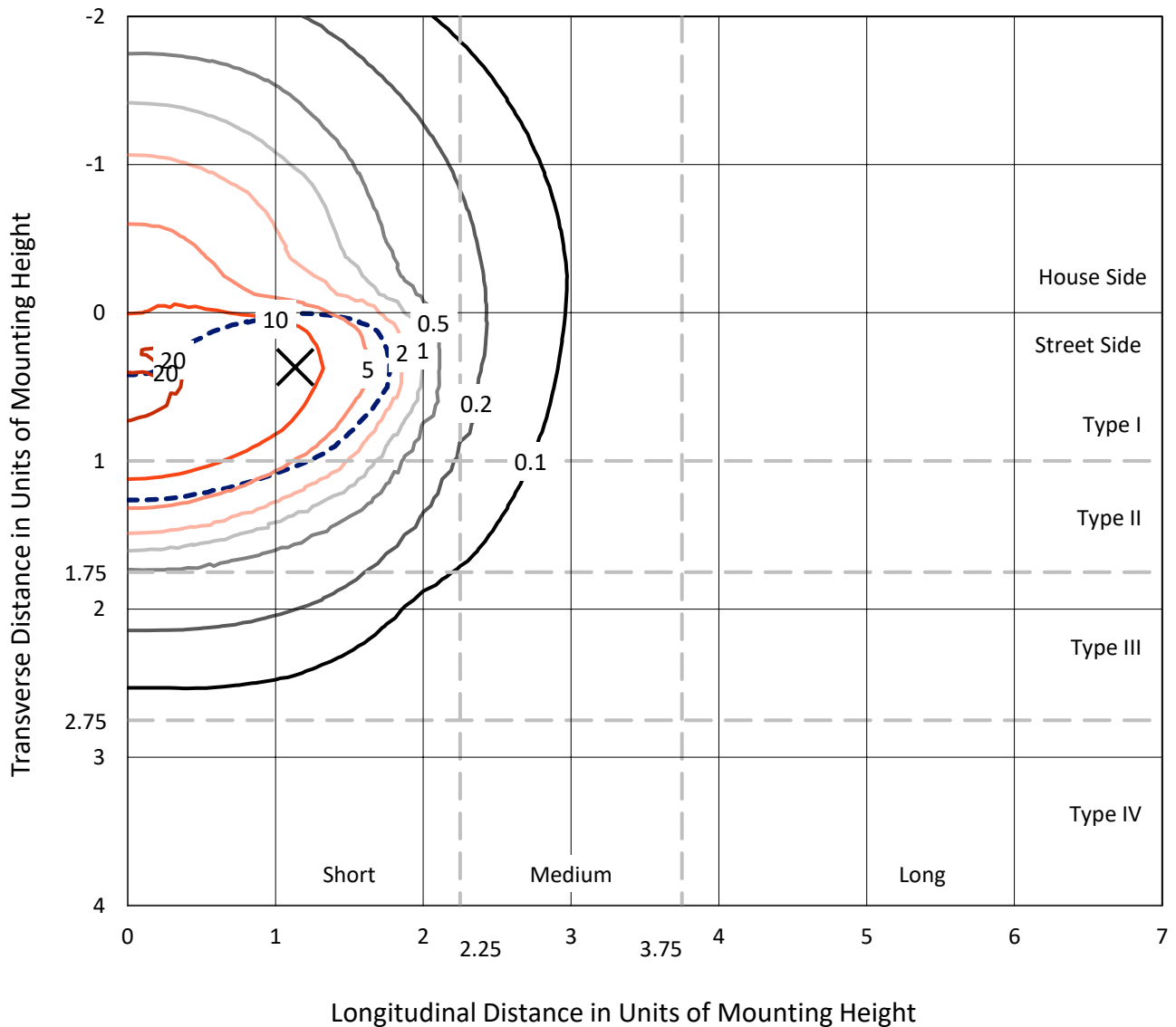




REPORT NUMBER: P532402
 CATALOG NUMBER: GALN-SA7D-730-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

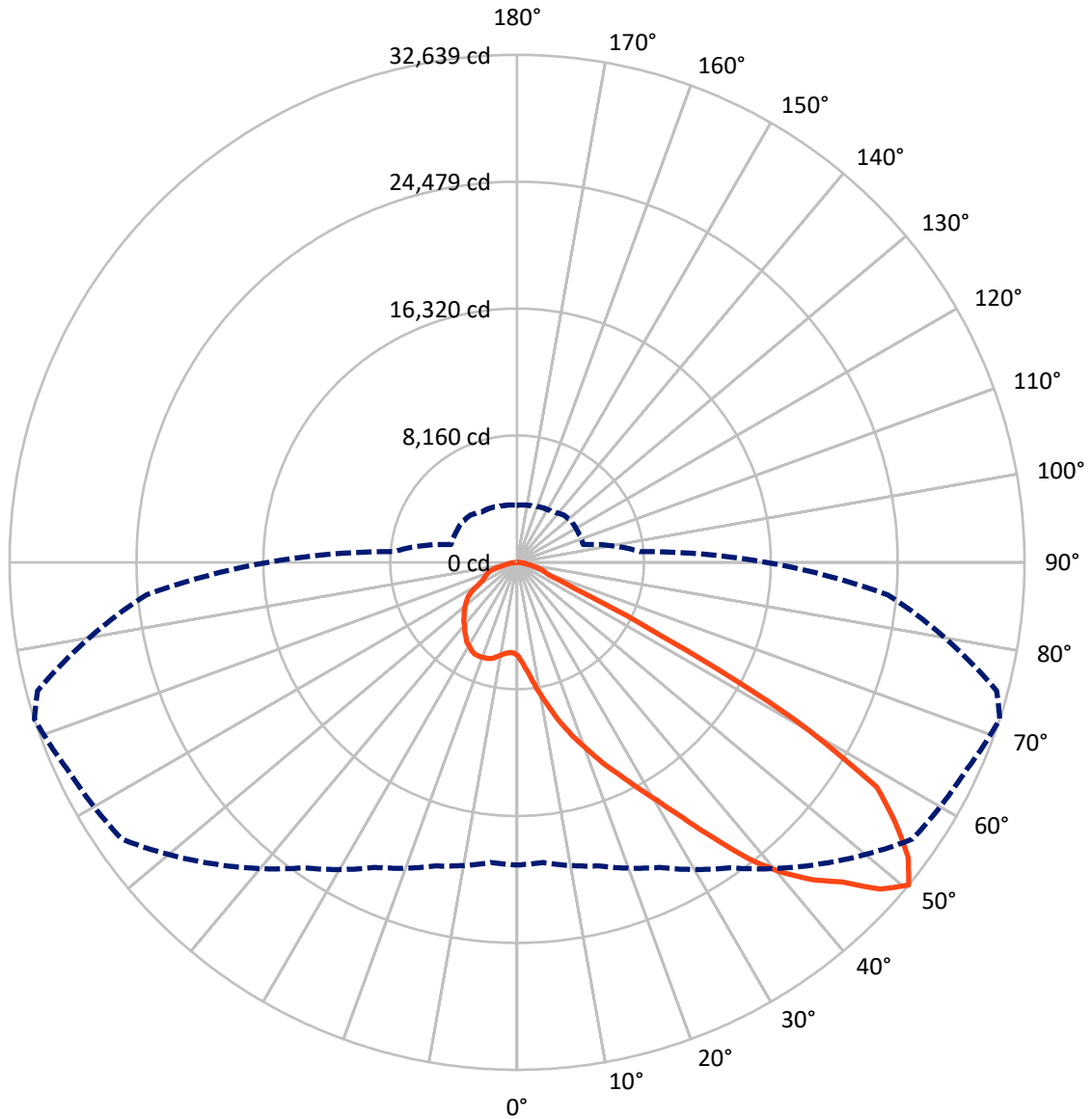
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - N/A

REPORT NUMBER: P532402
CATALOG NUMBER: GALN-SA7D-730-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P532402
 CATALOG NUMBER: GALN-SA7D-730-U-T2R-GRSWH

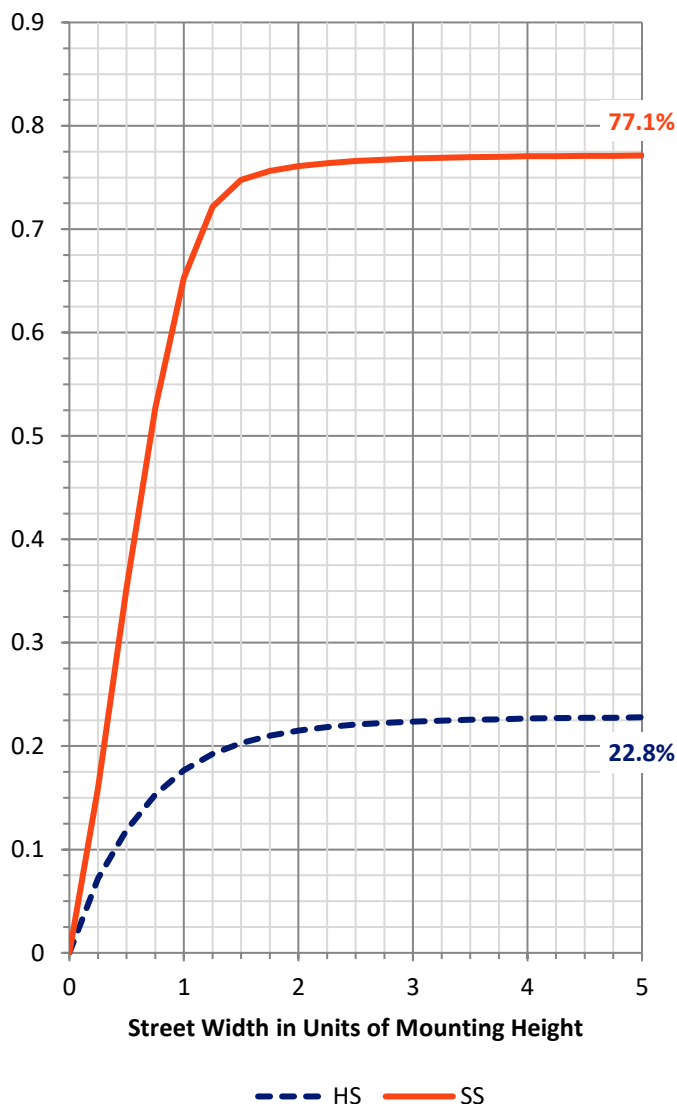
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9879.3	0.0	9879.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	33241.7	0.0	33241.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	43121.0	0.0	43121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.1	1.6
10°-20°	2639.6	6.1
20°-30°	5117.9	11.9
30°-40°	8478.7	19.7
40°-50°	11863.5	27.5
50°-60°	10008.4	23.2
60°-70°	3050.5	7.1
70°-80°	1070.2	2.5
80°-90°	186.1	0.4
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°	43121.0	100.0
0°-180°	43121.0	100.0

Coefficient of Utilization



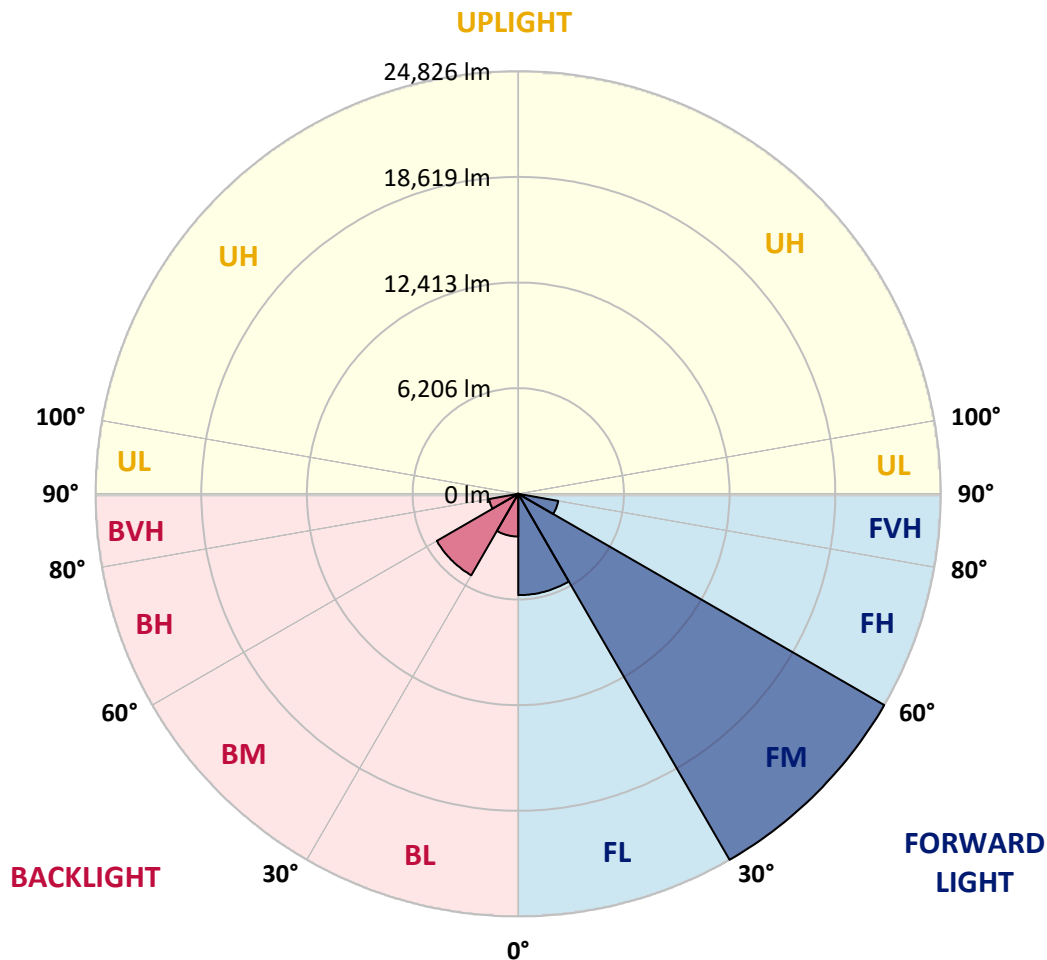
REPORT NUMBER: P532402
 CATALOG NUMBER: GALN-SA7D-730-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5952.3	13.8			
FM (30°-60°)	24825.9	57.6			
FH (60°-80°)	2380.2	5.5			G2/5000
FVH (80°-90°)	83.3	0.2			G1/100
BL (0°-30°)	2511.4	5.8	B4/5000		
BM (30°-60°)	5524.7	12.8	B4/8500		
BH (60°-80°)	1740.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	102.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P532402

CATALOG NUMBER: GALN-SA7D-730-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8
2.5°	7720.9	7672.9	7528.9	7480.8	7310.1	7000.6	6893.9	6579.1	6445.7	6323.0	6178.9
5°	9764.6	9540.5	9524.5	9252.3	8857.5	8628.0	7945.1	7486.2	7064.6	6851.2	6456.4
7.5°	11066.5	11071.9	11071.9	10847.7	10532.9	9951.3	9337.7	8510.7	7875.7	7560.9	6888.6
10°	12304.4	12197.7	12139.0	12117.7	11904.2	11338.6	10682.3	9657.9	8788.1	8419.9	7214.0
12.5°	13179.5	13088.8	13222.2	13152.8	12998.1	12629.9	12011.0	10842.4	9753.9	9257.7	7737.0
15°	13595.7	13659.7	13766.4	13958.5	13889.2	13750.4	13067.5	12059.0	10794.4	10234.1	8201.2
17.5°	14236.0	14059.9	14188.0	14428.1	14620.2	14556.1	14166.6	12939.4	11824.2	11135.9	8825.5
20°	14684.2	14582.8	14646.9	14924.3	15068.4	15431.2	15228.5	14091.9	12811.3	12085.7	9561.8
22.5°	15964.8	15815.4	15607.3	15650.0	15703.4	15959.5	16007.5	15356.5	13958.5	13190.2	10260.8
25°	17544.2	17405.5	17160.0	16909.3	16754.5	16706.5	16871.9	16349.0	15057.7	14262.7	11013.2
27.5°	19283.7	19048.9	18894.2	18376.6	17960.4	17896.4	17816.3	17533.5	16359.7	15500.6	11861.6
30°	20975.2	20788.4	20580.3	19753.2	19321.0	19251.7	18856.8	18936.9	17773.7	16818.5	12822.0
32.5°	22255.8	22271.8	21796.9	21172.6	20767.1	20398.9	20254.8	20484.3	19587.8	18819.5	13894.5
35°	23290.9	23338.9	22885.4	22319.8	21882.2	22138.4	22074.3	22181.1	21754.2	20815.1	15143.1
37.5°	24299.4	24059.3	23573.7	23301.6	23072.1	23493.7	24037.9	24128.6	24208.7	23104.2	16594.4
40°	24464.8	24486.1	24203.3	24395.4	24107.3	24742.3	26006.8	25889.5	26214.9	25249.2	18168.5
42.5°	24230.0	24278.0	24390.1	24662.2	25355.9	26118.9	27997.1	27516.9	27911.7	27052.7	19699.9
45°	23845.8	23648.4	23787.1	24822.3	26022.9	27719.6	29816.6	29443.1	29315.1	28594.7	21524.7
47.5°	22010.3	22213.1	22645.3	23920.5	25724.0	27997.1	31107.9	31022.5	31406.7	30899.8	23184.2
50°	19465.1	19385.1	20217.5	21652.8	23979.2	27452.9	31038.5	31812.2	32639.3	31935.0	23925.9
52.5°	14577.5	15004.4	15719.4	17501.5	20820.4	24486.1	29523.2	30814.4	31486.7	31337.3	23328.3
55°	9215.0	9343.0	9775.2	11893.6	14881.6	19651.9	25307.9	28301.3	29501.8	30062.1	22778.7
57.5°	4476.8	4236.7	4764.9	6467.0	8596.0	13216.9	19518.5	24651.5	27260.8	28274.6	21583.4
60°	2337.1	2427.8	2635.9	3244.2	4444.7	6861.9	12165.7	16429.0	20414.9	21973.0	16359.7
62.5°	1936.9	1968.9	2107.7	2411.8	2956.1	3948.5	6210.9	8009.1	10410.2	11813.5	9305.7
65°	1643.4	1659.4	1808.8	2011.6	2358.4	2780.0	3196.2	3345.6	4049.9	4156.6	3308.2
67.5°	1371.3	1387.3	1547.4	1739.5	1963.6	2075.6	2182.4	2171.7	2251.7	2219.7	2214.4
70°	1056.5	1072.5	1237.9	1440.7	1552.7	1488.7	1819.5	1894.2	1926.2	1952.9	1995.6
72.5°	763.0	795.0	923.1	1067.2	1008.5	1157.9	1499.4	1611.4	1654.1	1670.1	1723.5
75°	554.9	565.6	597.6	554.9	640.3	805.7	1056.5	1195.2	1248.6	1264.6	1344.6
77.5°	245.4	250.8	256.1	320.1	410.9	501.6	629.6	741.7	816.4	837.7	859.1
80°	128.1	133.4	165.4	218.8	293.5	368.2	458.9	522.9	570.9	576.3	597.6
82.5°	80.0	85.4	117.4	154.7	208.1	272.1	336.2	389.5	426.9	432.2	437.5
85°	37.4	48.0	69.4	96.0	138.7	176.1	181.4	154.7	165.4	170.7	160.1
87.5°	10.7	16.0	21.3	16.0	21.3	21.3	26.7	32.0	32.0	32.0	37.4
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: P532402

CATALOG NUMBER: GALN-SA7D-730-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8	6002.8
2.5°	6098.9	6050.8	5864.1	5794.7	5613.3	5645.3	5549.3	5543.9	5522.6	5517.3	5511.9
5°	6248.3	6098.9	5874.8	5704.0	5602.6	5592.0	5522.6	5522.6	5543.9	5559.9	5522.6
7.5°	6493.7	6323.0	5944.1	5784.0	5693.3	5677.3	5629.3	5592.0	5640.0	5624.0	5581.3
10°	6776.5	6477.7	6077.5	5938.8	5789.4	5752.0	5752.0	5768.0	5688.0	5714.7	5672.0
12.5°	7091.3	6691.1	6248.3	6088.2	5912.1	5890.8	5880.1	5762.7	5805.4	5784.0	5677.3
15°	7491.5	6936.6	6467.0	6194.9	6045.5	5949.5	5810.7	5789.4	5762.7	5709.3	5661.3
17.5°	7923.7	7203.4	6568.4	6226.9	6002.8	5933.4	5826.7	5714.7	5634.6	5645.3	5608.0
20°	8291.9	7448.8	6605.8	6258.9	5970.8	5837.4	5672.0	5602.6	5517.3	5511.9	5506.6
22.5°	8729.4	7779.6	6659.1	6173.6	5874.8	5736.0	5624.0	5501.2	5442.5	5367.8	5405.2
25°	9252.3	7907.7	6669.8	6125.5	5805.4	5559.9	5501.2	5367.8	5346.5	5239.8	5261.1
27.5°	9631.2	7977.1	6584.4	5976.1	5645.3	5458.6	5351.8	5255.8	5218.4	5138.4	5117.1
30°	10138.1	8083.8	6403.0	5789.4	5485.2	5277.1	5213.1	5191.8	5085.0	4999.7	4989.0
32.5°	10714.4	8153.2	6285.6	5597.3	5319.8	5159.7	5191.8	5090.4	4957.0	4882.3	4860.9
35°	11173.2	8179.8	5992.1	5378.5	5207.8	5106.4	5069.0	5047.7	4855.6	4786.2	4732.9
37.5°	11872.2	8121.1	5746.7	5223.8	5085.0	5047.7	5015.7	4871.6	4652.8	4551.5	4476.8
40°	12688.6	8105.1	5431.9	5005.0	4967.7	5010.3	4914.3	4690.2	4386.1	4274.0	4220.6
42.5°	13473.0	8217.2	5234.5	4887.6	4839.6	4855.6	4722.2	4386.1	4236.7	4172.6	4087.2
45°	14785.6	8452.0	4909.0	4706.2	4684.9	4674.2	4514.1	4161.9	4076.6	3996.5	3980.5
47.5°	15970.1	8297.2	4700.9	4519.4	4540.8	4482.1	4140.6	4028.6	3932.5	3852.5	3825.8
50°	16039.5	7929.0	4407.4	4375.4	4380.7	4279.3	3953.9	3879.1	3756.4	3703.1	3665.7
52.5°	15676.7	7326.1	4135.3	4145.9	4161.9	3996.5	3724.4	3671.1	3569.7	3495.0	3473.6
55°	14657.5	6387.0	3868.5	3911.2	3953.9	3639.0	3553.7	3420.3	3340.2	3233.5	3238.8
57.5°	12912.7	5143.7	3495.0	3564.3	3655.0	3308.2	3244.2	3078.8	2961.4	2876.0	2865.3
60°	8654.7	3660.4	2934.7	2961.4	3164.1	3025.4	3020.1	2854.7	2694.6	2619.9	2577.2
62.5°	5106.4	2796.0	2534.5	2507.8	2502.5	2582.5	2715.9	2657.2	2449.1	2305.1	2347.8
65°	2673.3	2417.1	2358.4	2267.7	2214.4	2193.0	2294.4	2321.1	2182.4	2027.6	2016.9
67.5°	2246.4	2246.4	2198.4	2166.3	2091.6	2000.9	1936.9	1851.5	1830.2	1787.5	1734.1
70°	2043.6	2097.0	2081.0	2006.3	1942.2	1840.9	1675.5	1536.7	1403.3	1355.3	1387.3
72.5°	1782.2	1835.5	1835.5	1798.2	1712.8	1558.1	1398.0	1237.9	1125.9	1040.5	1029.8
75°	1371.3	1398.0	1462.0	1419.3	1307.3	1211.2	1045.8	880.4	773.7	693.7	677.7
77.5°	875.1	917.8	917.8	912.4	832.4	741.7	635.0	517.6	437.5	378.8	362.8
80°	581.6	608.3	629.6	608.3	554.9	485.6	405.5	325.5	266.8	218.8	208.1
82.5°	426.9	458.9	474.9	453.5	400.2	346.8	288.1	229.4	170.7	133.4	122.7
85°	165.4	170.7	192.1	229.4	224.1	218.8	176.1	128.1	96.0	69.4	64.0
87.5°	42.7	37.4	42.7	42.7	37.4	32.0	32.0	32.0	32.0	16.0	21.3
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)