

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: P456996

Luminaire Tested: **GALN-SA8B-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46827 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

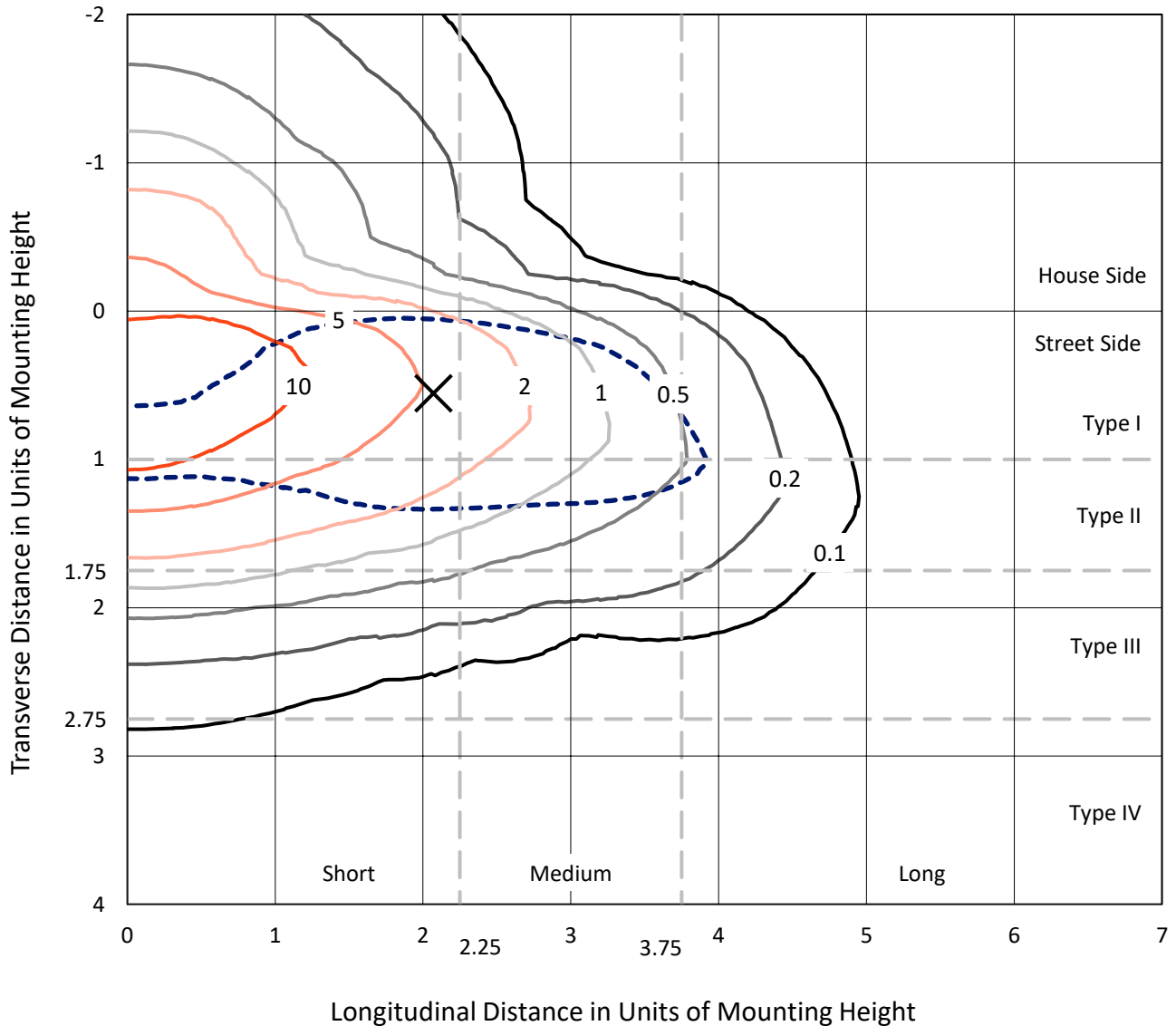
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

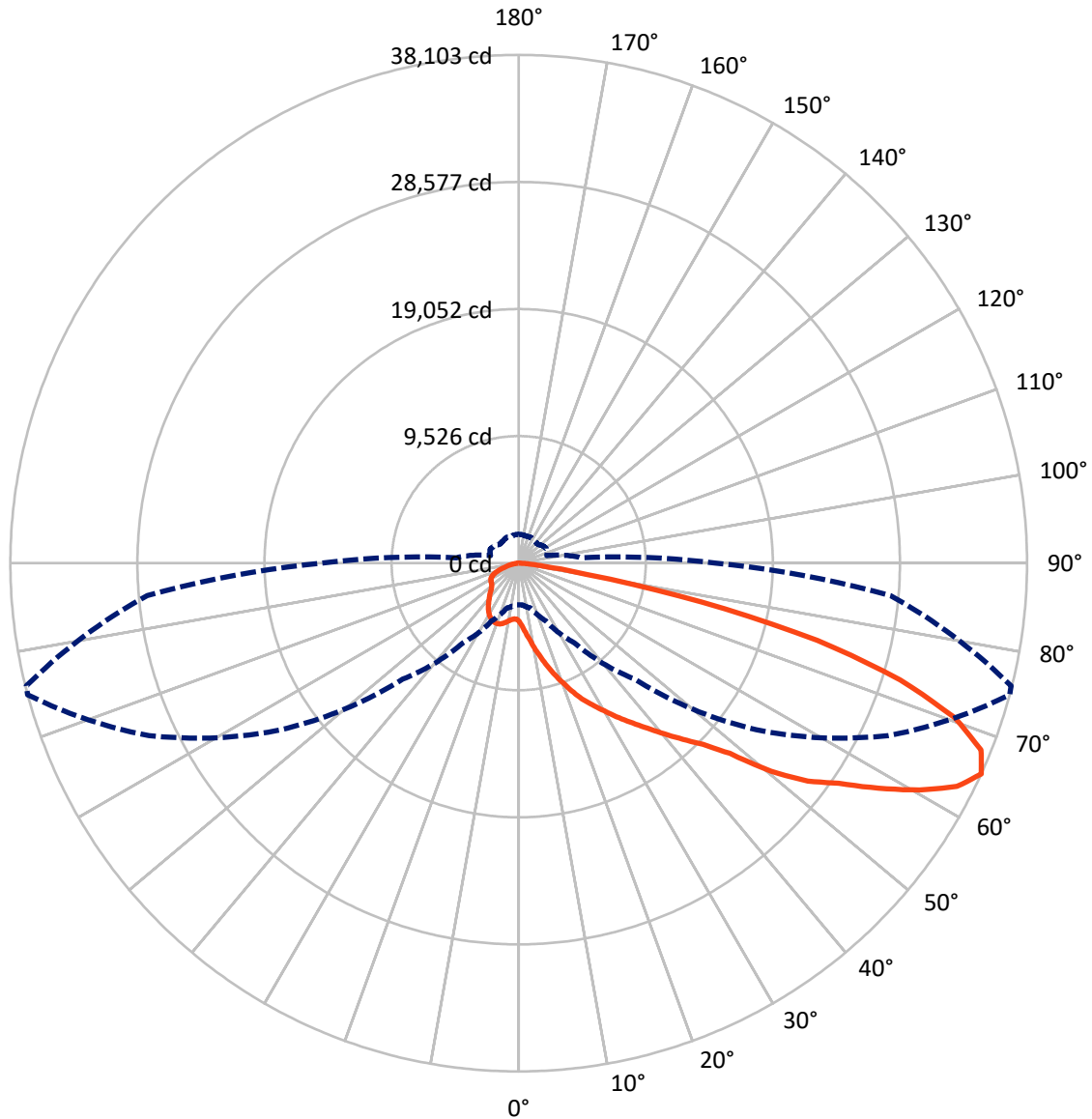
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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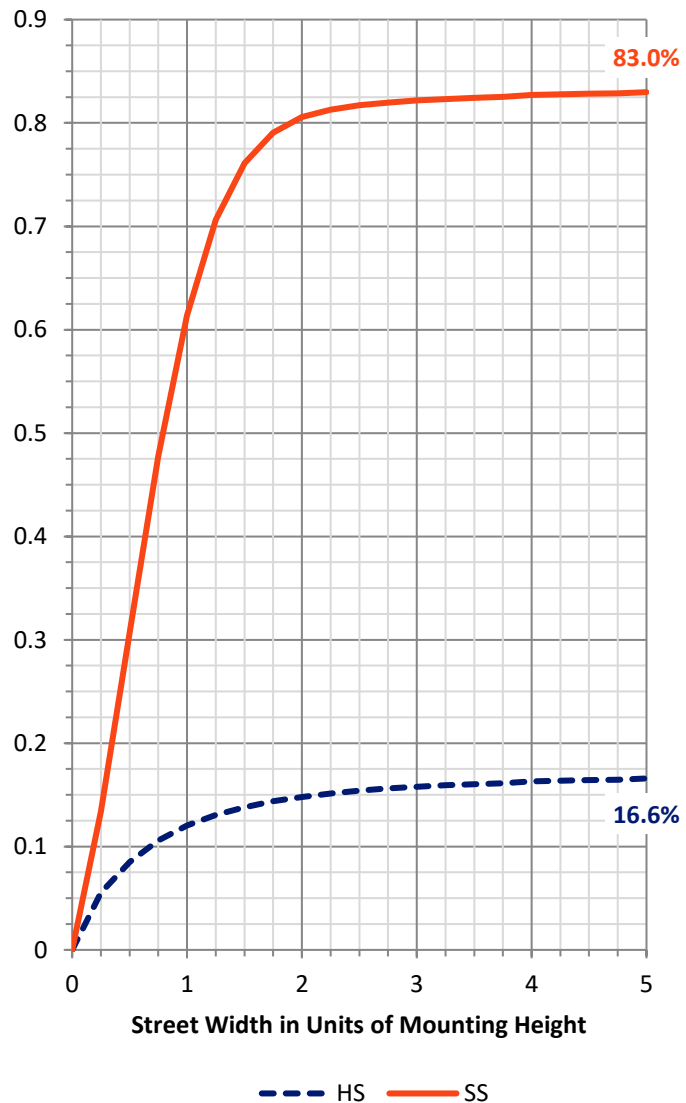
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7872.2	0.0	7872.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	38954.8	0.0	38954.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	46827.0	0.0	46827.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.6	1.1
10°-20°	2070.5	4.4
20°-30°	3999.5	8.5
30°-40°	6496.4	13.9
40°-50°	8936.4	19.1
50°-60°	10550.8	22.5
60°-70°	9244.3	19.7
70°-80°	4413.3	9.4
80°-90°	587.2	1.3
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°	46827.0	100.0
0°-180°	46827.0	100.0



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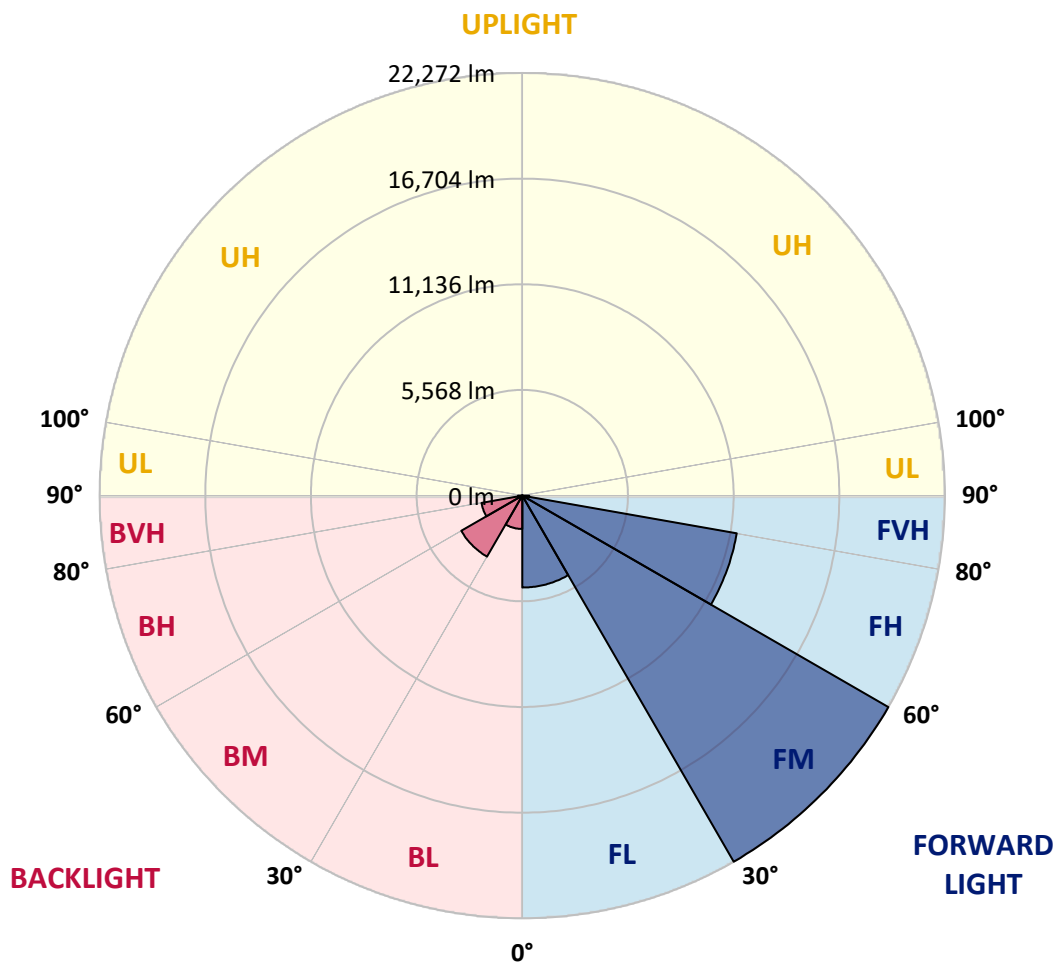
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4841.2	10.3			
FM	(30°-60°)	22271.9	47.6			
FH	(60°-80°)	11474.7	24.5			G4/12000
FVH	(80°-90°)	367.0	0.8			G3/500
BL	(0°-30°)	1757.5	3.8	B3/2500		
BM	(30°-60°)	3711.7	7.9	B3/5000		
BH	(60°-80°)	2182.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	220.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8
2.5°	5780.8	5742.7	5702.0	5590.3	5470.9	5336.3	5143.3	4957.9	4711.5	4703.9	4521.0
5°	7383.4	7358.0	7177.7	7073.6	6796.7	6428.4	6116.0	5630.9	5181.4	5128.0	4772.4
7.5°	8856.6	8757.5	8688.9	8501.0	8226.7	7754.3	7149.8	6494.5	5742.7	5671.6	5082.3
10°	9966.5	9956.3	9920.8	9758.2	9552.5	9082.6	8412.1	7472.3	6453.8	6314.1	5458.2
12.5°	10797.0	10804.7	10799.6	10797.0	10649.7	10251.0	9524.6	8534.0	7172.6	7073.6	5892.5
15°	11343.1	11419.3	11449.8	11576.8	11589.5	11322.8	10698.0	9560.1	7982.9	7835.5	6359.9
17.5°	11703.8	11741.9	11884.1	12100.0	12275.3	12227.0	11670.8	10510.0	8810.9	8564.5	6845.0
20°	12049.2	12115.2	12224.5	12519.1	12828.9	12971.2	12580.0	11482.8	9631.2	9473.8	7380.9
22.5°	12768.0	12862.0	12900.1	13049.9	13314.1	13565.5	13387.7	12414.9	10530.4	10317.0	7949.8
25°	13984.6	14083.7	13977.0	13941.4	14027.8	14152.2	14114.1	13293.7	11378.7	11073.9	8488.3
27.5°	15569.5	15582.2	15373.9	15175.8	14962.5	14899.0	14782.1	14073.5	12115.2	11861.3	9029.3
30°	17271.2	17210.2	16864.8	16506.7	16146.0	15790.5	15455.2	14825.3	12935.6	12643.5	9560.1
32.5°	18851.0	18818.0	18434.5	17878.2	17268.7	16933.4	16255.3	15584.7	13814.4	13532.5	10106.2
35°	20034.6	20082.9	19661.2	19054.2	18388.8	18091.6	17235.6	16382.2	14723.7	14416.4	10700.5
37.5°	20875.3	20849.9	20476.5	19950.8	19366.6	19107.5	18381.1	17253.4	15701.6	15406.9	11350.7
40°	21175.0	21159.8	20882.9	20499.4	20128.6	20037.1	19580.0	18193.2	16821.6	16476.2	12133.0
42.5°	20984.5	21017.5	20834.7	20730.5	20661.9	20728.0	20771.2	19425.0	18043.3	17725.8	12981.3
45°	20400.3	20382.6	20357.2	20527.3	20913.4	21347.7	21949.7	20588.3	19371.7	19117.7	14119.2
47.5°	19356.4	19483.4	19546.9	20016.8	20860.1	21888.7	23306.0	22147.8	21299.5	21078.5	15854.0
50°	17896.0	17997.6	18373.5	19209.1	20466.4	22091.9	24631.8	24697.8	24515.0	24101.0	17738.5
52.5°	15615.2	15772.7	16547.3	18078.9	19658.7	22008.1	25434.4	26884.7	27126.0	26816.1	19595.2
55°	13062.6	13283.6	14101.4	16110.5	18546.2	21550.9	25988.1	28152.1	29114.7	28827.7	21383.3
57.5°	10563.4	10797.0	11637.7	13583.3	16605.8	20540.0	26351.3	29564.2	31822.2	31448.8	23608.2
60°	7916.8	8160.6	8882.0	10885.9	13842.4	18564.0	26104.9	30788.5	34527.2	34367.2	25835.7
62.5°	5107.7	5376.9	6004.3	7662.8	10639.6	15864.1	24786.7	31464.1	36868.9	36675.9	27461.2
65°	3111.4	3141.8	3487.3	4757.2	7281.8	12282.9	21771.9	30567.5	38103.3	38044.9	27956.5
67.5°	2011.6	2059.8	2217.3	2849.7	4366.1	8531.5	17408.4	27608.5	37382.0	37361.7	26932.9
70°	1699.2	1714.4	1785.5	1922.7	2537.3	5173.7	12224.5	22892.0	34641.5	34641.5	24471.8
72.5°	1518.9	1539.2	1564.6	1607.7	1810.9	2931.0	7294.5	17819.8	29909.7	30107.8	20829.6
75°	1379.2	1374.1	1389.3	1396.9	1544.2	1915.1	3771.7	13179.5	23138.3	22742.1	15084.4
77.5°	1181.0	1188.7	1181.0	1214.1	1363.9	1457.9	1915.1	8843.9	14022.7	13509.6	7571.4
80°	970.2	982.9	995.6	1016.0	1165.8	1107.4	1150.6	4030.8	5186.4	5077.2	2339.2
82.5°	728.9	746.7	767.0	815.3	916.9	731.5	726.4	1722.0	1871.9	1714.4	861.0
85°	294.6	348.0	525.8	574.0	576.6	401.3	447.0	718.8	764.5	746.7	337.8
87.5°	68.6	81.3	170.2	256.5	236.2	149.9	165.1	233.7	266.7	246.4	114.3
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°	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8
2.5°	4437.2	4348.3	4195.9	4079.1	3995.2	3921.6	3875.9	3847.9	3837.8	3835.2	3837.8
5°	4587.0	4429.6	4188.3	4035.9	3952.1	3903.8	3875.9	3873.3	3875.9	3878.4	3870.8
7.5°	4792.8	4566.7	4251.8	4109.5	4046.0	4010.5	3997.8	3992.7	3995.2	3992.7	3992.7
10°	5067.1	4757.2	4376.2	4228.9	4175.6	4134.9	4114.6	4101.9	4091.8	4081.6	4076.5
12.5°	5369.3	4968.0	4510.8	4368.6	4292.4	4228.9	4183.2	4150.2	4127.3	4104.5	4099.4
15°	5707.1	5191.5	4660.7	4462.6	4353.4	4259.4	4180.6	4127.3	4086.7	4053.7	4051.1
17.5°	6029.7	5402.3	4762.3	4505.8	4345.7	4213.7	4109.5	4035.9	3985.1	3941.9	3936.8
20°	6375.1	5603.0	4808.0	4477.8	4269.5	4109.5	3972.4	3883.5	3825.1	3776.8	3769.2
22.5°	6723.1	5773.2	4802.9	4388.9	4137.5	3949.5	3804.7	3710.8	3642.2	3593.9	3576.2
25°	7055.8	5910.3	4739.4	4246.7	3954.6	3759.0	3611.7	3525.4	3464.4	3406.0	3406.0
27.5°	7355.5	5991.6	4620.0	4074.0	3766.6	3560.9	3444.1	3365.3	3309.5	3271.4	3248.5
30°	7650.1	6029.7	4457.5	3855.5	3568.5	3393.3	3299.3	3253.6	3202.8	3159.6	3154.5
32.5°	7914.3	6022.1	4254.3	3642.2	3380.6	3256.1	3218.0	3182.5	3129.1	3068.2	3052.9
35°	8170.8	5971.3	4013.0	3408.5	3223.1	3174.9	3185.0	3134.2	3037.7	2961.5	2948.8
37.5°	8450.2	5879.8	3748.9	3218.0	3091.0	3136.8	3162.2	3050.4	2892.9	2773.6	2745.6
40°	8772.8	5775.7	3474.6	3027.5	2986.9	3101.2	3101.2	2895.5	2679.6	2605.9	2585.6
42.5°	9151.2	5689.3	3246.0	2867.5	2900.5	3014.8	3002.1	2689.7	2600.8	2562.7	2552.6
45°	9750.6	5658.9	3009.8	2727.8	2829.4	2913.2	2809.1	2618.6	2567.8	2537.3	2527.2
47.5°	10698.0	5694.4	2801.5	2623.7	2748.2	2811.7	2593.2	2570.4	2534.8	2491.6	2486.5
50°	11576.8	5661.4	2654.2	2565.3	2677.0	2689.7	2504.3	2511.9	2491.6	2443.4	2433.2
52.5°	12295.6	5557.3	2560.2	2534.8	2616.1	2476.4	2420.5	2448.4	2440.8	2379.9	2369.7
55°	13085.5	5493.8	2514.5	2534.8	2575.4	2291.0	2341.8	2382.4	2372.3	2329.1	2326.5
57.5°	14043.0	5506.5	2481.5	2542.4	2534.8	2197.0	2263.0	2311.3	2308.8	2296.1	2296.1
60°	15023.4	5511.5	2430.7	2539.9	2486.5	2123.3	2181.8	2250.3	2255.4	2263.0	2263.0
62.5°	15348.5	5290.6	2331.6	2494.2	2379.9	2052.2	2105.6	2199.5	2194.5	2214.8	2217.3
65°	14741.5	4678.5	2184.3	2390.0	2242.7	2001.4	2047.1	2133.5	2105.6	2158.9	2169.1
67.5°	13418.2	3870.8	1955.7	2202.1	2090.3	1948.1	2009.0	2042.1	1991.3	2095.4	2097.9
70°	11597.1	3022.5	1666.2	1935.4	1917.6	1892.2	1978.6	1927.8	1856.7	1983.6	1958.2
72.5°	9697.3	2308.8	1330.9	1582.3	1686.5	1808.4	1925.2	1780.5	1681.4	1719.5	1673.8
75°	7284.4	1706.8	1069.3	1239.5	1404.6	1689.0	1877.0	1602.7	1450.3	1414.7	1404.6
77.5°	3713.3	1115.0	800.1	927.1	1054.1	1526.5	1810.9	1394.4	1201.4	1145.5	1120.1
80°	1325.8	693.4	563.9	640.1	711.2	1313.1	1582.3	1153.1	932.1	922.0	932.1
82.5°	614.7	447.0	378.4	419.1	421.6	876.3	1206.4	861.0	708.6	1076.9	909.3
85°	264.1	223.5	213.4	208.3	193.0	391.1	678.1	462.3	721.3	322.6	297.2
87.5°	78.7	88.9	78.7	58.4	43.2	43.2	68.6	25.4	17.8	12.7	12.7
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)