

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: P532636

Luminaire Tested: **GALN-SA8A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532636  
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-SA8A-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA 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: 29553 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

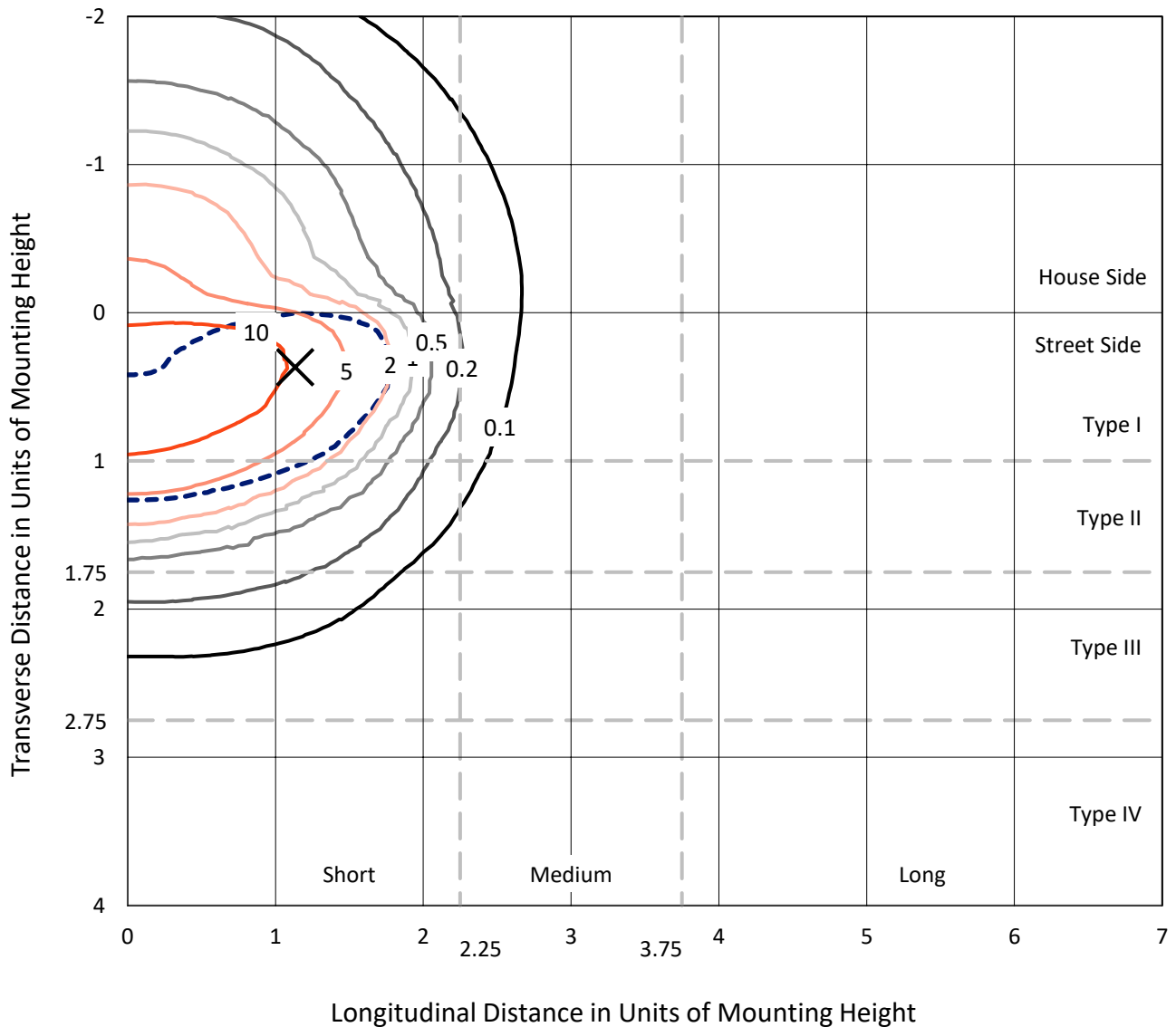
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

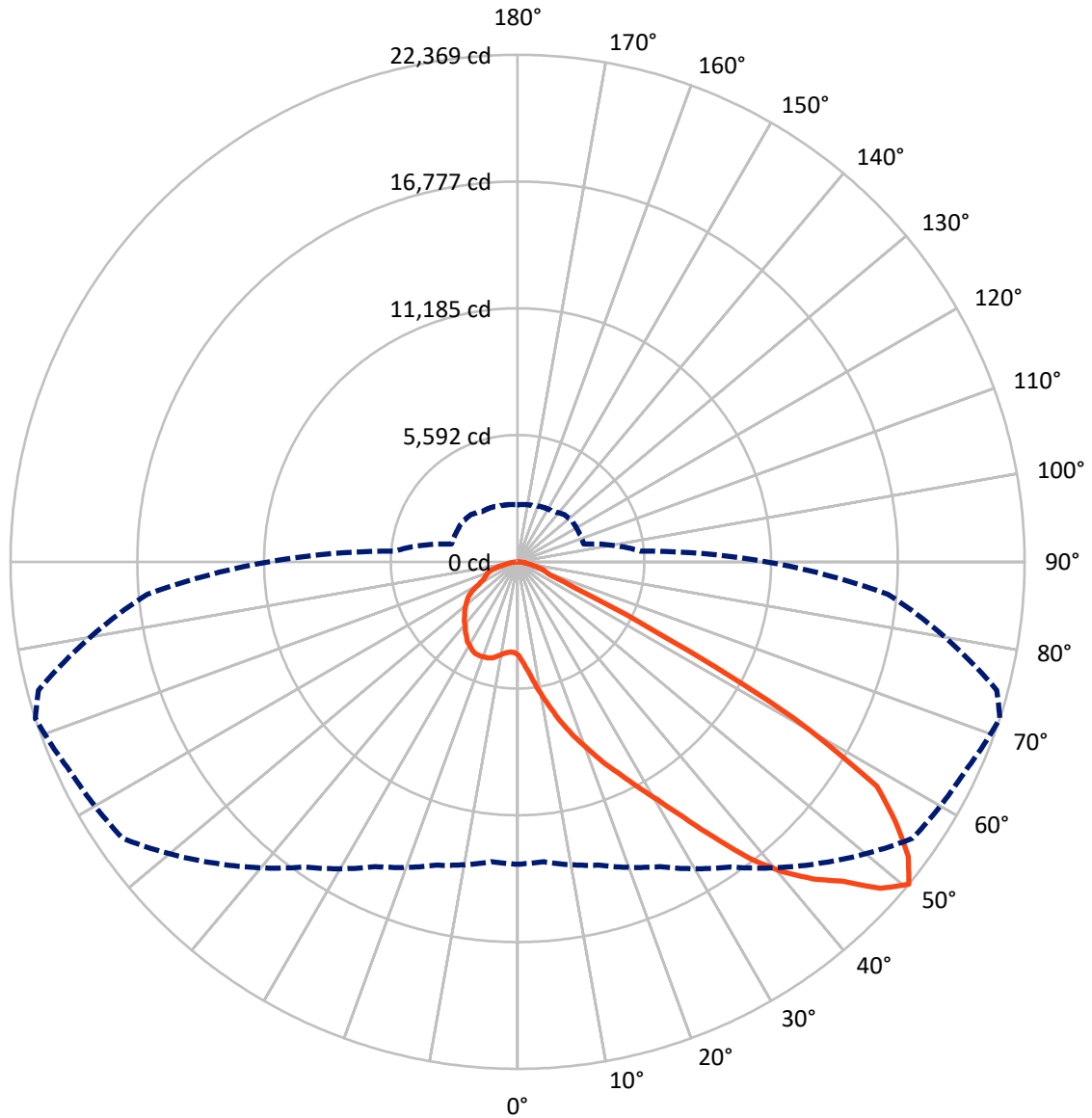
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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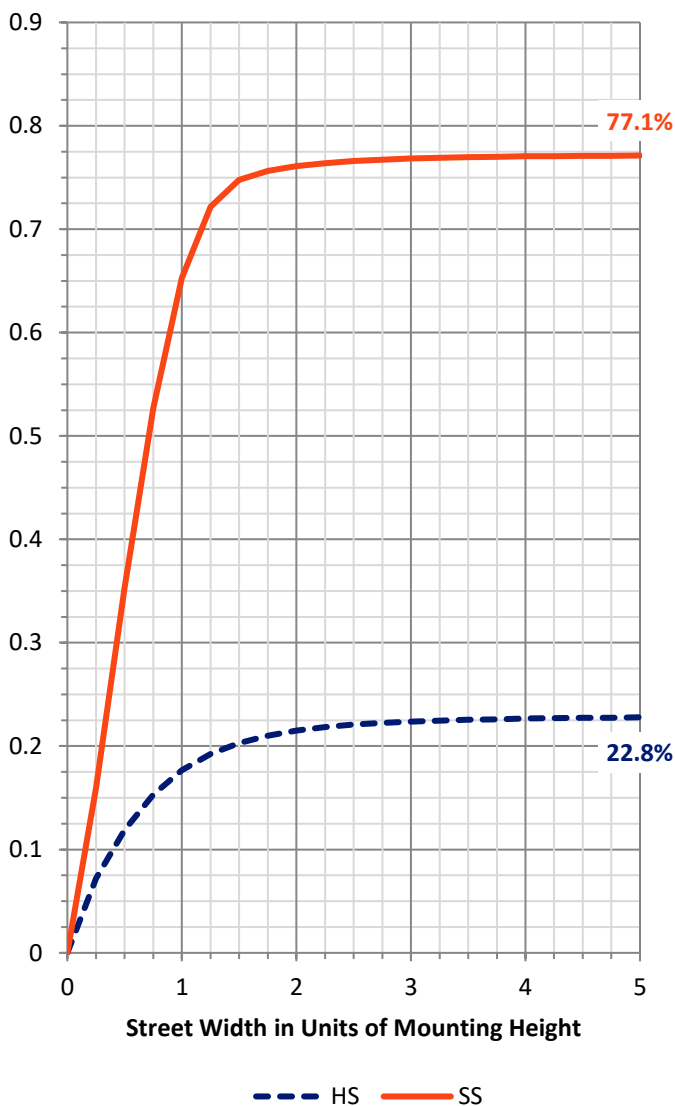
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6770.8	0.0	6770.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	22782.2	0.0	22782.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	29553.0	0.0	29553.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.9	1.6
10°-20°	1809.0	6.1
20°-30°	3507.6	11.9
30°-40°	5810.9	19.7
40°-50°	8130.7	27.5
50°-60°	6859.3	23.2
60°-70°	2090.7	7.1
70°-80°	733.5	2.5
80°-90°	127.5	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°	29553.0	100.0
0°-180°	29553.0	100.0

**Coefficient of Utilization**

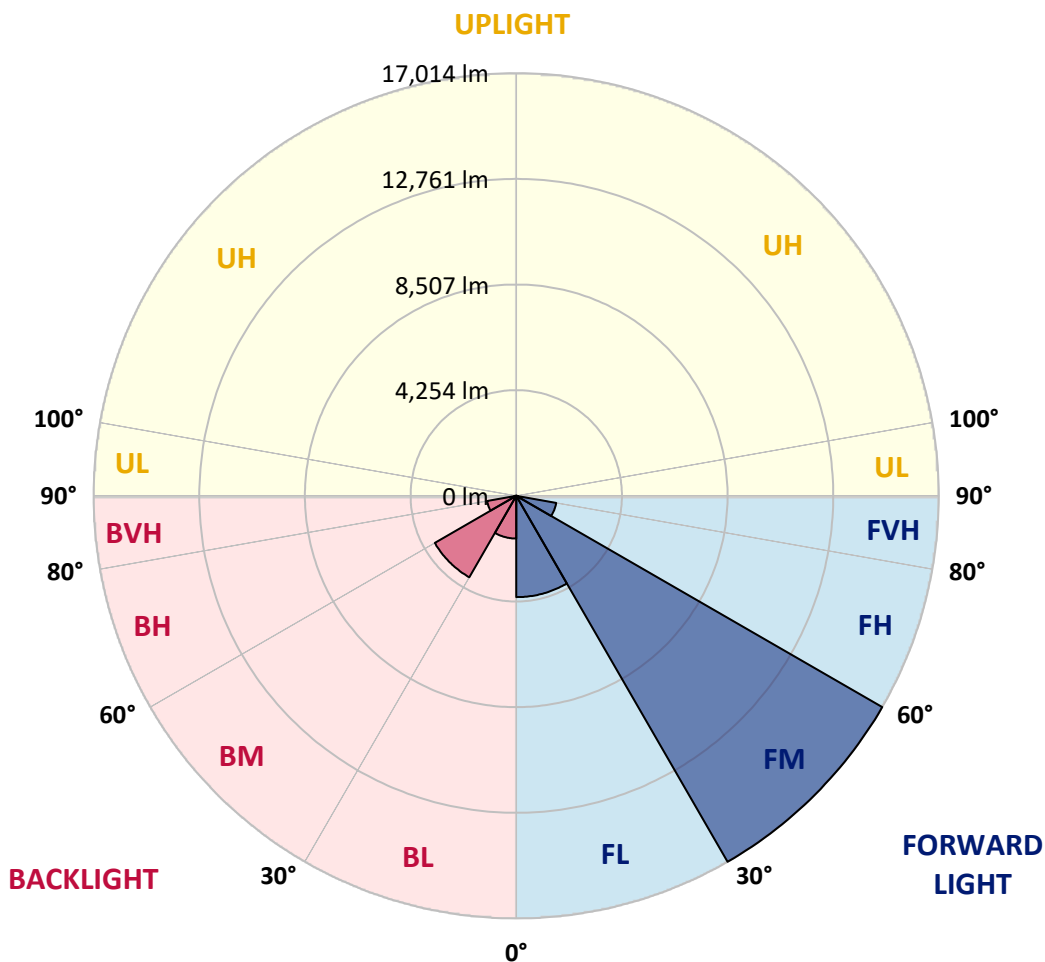


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4079.4	13.8			
FM (30°-60°)	17014.5	57.6			
FH (60°-80°)	1631.3	5.5			G1/1800
FVH (80°-90°)	57.1	0.2			G1/100
BL (0°-30°)	1721.2	5.8	B3/2500		
BM (30°-60°)	3786.3	12.8	B3/5000		
BH (60°-80°)	1192.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	70.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0
2.5°	5291.6	5258.6	5159.9	5127.0	5010.0	4797.9	4724.7	4509.0	4417.6	4333.4	4234.7
5°	6692.2	6538.6	6527.6	6341.1	6070.5	5913.2	5445.1	5130.7	4841.8	4695.5	4424.9
7.5°	7584.4	7588.1	7588.1	7434.5	7218.8	6820.1	6399.6	5832.8	5397.6	5181.8	4721.1
10°	8432.8	8359.7	8319.5	8304.9	8158.6	7770.9	7321.1	6619.0	6022.9	5770.6	4944.1
12.5°	9032.6	8970.4	9061.8	9014.3	8908.2	8655.9	8231.7	7430.9	6684.8	6344.7	5302.5
15°	9317.8	9361.7	9434.8	9566.5	9519.0	9423.9	8955.8	8264.6	7397.9	7014.0	5620.7
17.5°	9756.6	9636.0	9723.7	9888.3	10019.9	9976.1	9709.1	8868.0	8103.7	7632.0	6048.5
20°	10063.8	9994.3	10038.2	10228.4	10327.1	10575.8	10436.8	9657.9	8780.3	8282.9	6553.2
22.5°	10941.5	10839.1	10696.5	10725.7	10762.3	10937.8	10970.7	10524.6	9566.5	9039.9	7032.2
25°	12023.9	11928.9	11760.6	11588.8	11482.7	11449.8	11563.2	11204.8	10319.8	9774.9	7547.9
27.5°	13216.1	13055.2	12949.1	12594.4	12309.2	12265.3	12210.4	12016.6	11212.1	10623.3	8129.3
30°	14375.3	14247.3	14104.7	13537.9	13241.7	13194.2	12923.5	12978.4	12181.2	11526.6	8787.6
32.5°	15253.0	15264.0	14938.5	14510.6	14232.7	13980.4	13881.7	14038.9	13424.5	12897.9	9522.6
35°	15962.4	15995.3	15684.5	15296.9	14997.0	15172.5	15128.7	15201.8	14909.2	14265.6	10378.3
37.5°	16653.6	16489.0	16156.3	15969.7	15812.5	16101.4	16474.4	16536.6	16591.4	15834.4	11373.0
40°	16767.0	16781.6	16587.8	16719.4	16521.9	16957.1	17823.8	17743.4	17966.4	17304.5	12451.8
42.5°	16606.1	16639.0	16715.8	16902.3	17377.7	17900.6	19187.8	18858.7	19129.3	18540.6	13501.3
45°	16342.8	16207.4	16302.5	17012.0	17834.8	18997.7	20434.8	20178.9	20091.1	19597.4	14752.0
47.5°	15084.8	15223.7	15519.9	16394.0	17630.0	19187.8	21319.8	21261.3	21524.6	21177.2	15889.3
50°	13340.4	13285.6	13856.1	14839.8	16434.2	18814.8	21272.3	21802.5	22369.4	21886.6	16397.6
52.5°	9990.7	10283.2	10773.3	11994.7	14269.3	16781.6	20233.7	21118.7	21579.5	21477.1	15988.0
55°	6315.5	6403.3	6699.5	8151.3	10199.1	13468.4	17344.7	19396.3	20219.1	20603.1	15611.4
57.5°	3068.2	2903.6	3265.6	4432.2	5891.3	9058.2	13377.0	16894.9	18683.2	19378.0	14792.2
60°	1601.7	1663.9	1806.5	2223.4	3046.2	4702.8	8337.8	11259.6	13991.4	15059.2	11212.1
62.5°	1327.5	1349.4	1444.5	1652.9	2025.9	2706.1	4256.6	5489.0	7134.6	8096.4	6377.7
65°	1126.3	1137.3	1239.7	1378.7	1616.4	1905.3	2190.5	2292.9	2775.6	2848.7	2267.3
67.5°	939.8	950.8	1060.5	1192.2	1345.7	1422.5	1495.7	1488.4	1543.2	1521.3	1517.6
70°	724.1	735.0	848.4	987.4	1064.2	1020.3	1247.0	1298.2	1320.1	1338.4	1367.7
72.5°	522.9	544.9	632.6	731.4	691.2	793.6	1027.6	1104.4	1133.6	1144.6	1181.2
75°	380.3	387.6	409.6	380.3	438.8	552.2	724.1	819.1	855.7	866.7	921.5
77.5°	168.2	171.9	175.5	219.4	281.6	343.8	431.5	508.3	559.5	574.1	588.8
80°	87.8	91.4	113.4	149.9	201.1	252.3	314.5	358.4	391.3	394.9	409.6
82.5°	54.9	58.5	80.5	106.1	142.6	186.5	230.4	267.0	292.6	296.2	299.9
85°	25.6	32.9	47.5	65.8	95.1	120.7	124.3	106.1	113.4	117.0	109.7
87.5°	7.3	11.0	14.6	11.0	14.6	14.6	18.3	21.9	21.9	21.9	25.6
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°	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0	4114.0
2.5°	4179.9	4146.9	4018.9	3971.4	3847.1	3869.0	3803.2	3799.5	3784.9	3781.3	3777.6
5°	4282.2	4179.9	4026.3	3909.2	3839.8	3832.4	3784.9	3784.9	3799.5	3810.5	3784.9
7.5°	4450.5	4333.4	4073.8	3964.1	3901.9	3891.0	3858.0	3832.4	3865.4	3854.4	3825.1
10°	4644.3	4439.5	4165.2	4070.1	3967.8	3942.2	3942.2	3953.1	3898.3	3916.6	3887.3
12.5°	4860.0	4585.8	4282.2	4172.5	4051.9	4037.2	4029.9	3949.5	3978.7	3964.1	3891.0
15°	5134.3	4754.0	4432.2	4245.7	4143.3	4077.5	3982.4	3967.8	3949.5	3912.9	3880.0
17.5°	5430.5	4936.8	4501.7	4267.6	4114.0	4066.5	3993.4	3916.6	3861.7	3869.0	3843.4
20°	5682.8	5105.1	4527.3	4289.6	4092.1	4000.7	3887.3	3839.8	3781.3	3777.6	3773.9
22.5°	5982.7	5331.8	4563.8	4231.1	4026.3	3931.2	3854.4	3770.3	3730.1	3678.9	3704.5
25°	6341.1	5419.5	4571.1	4198.1	3978.7	3810.5	3770.3	3678.9	3664.2	3591.1	3605.7
27.5°	6600.7	5467.1	4512.6	4095.7	3869.0	3741.0	3667.9	3602.1	3576.5	3521.6	3507.0
30°	6948.1	5540.2	4388.3	3967.8	3759.3	3616.7	3572.8	3558.2	3485.0	3426.5	3419.2
32.5°	7343.1	5587.8	4307.8	3836.1	3645.9	3536.2	3558.2	3488.7	3397.3	3346.1	3331.4
35°	7657.6	5606.1	4106.7	3686.2	3569.1	3499.7	3474.1	3459.4	3327.8	3280.3	3243.7
37.5°	8136.6	5565.8	3938.5	3580.1	3485.0	3459.4	3437.5	3338.8	3188.8	3119.3	3068.2
40°	8696.1	5554.9	3722.7	3430.2	3404.6	3433.8	3368.0	3214.4	3006.0	2929.2	2892.6
42.5°	9233.7	5631.6	3587.4	3349.7	3316.8	3327.8	3236.4	3006.0	2903.6	2859.7	2801.2
45°	10133.3	5792.6	3364.4	3225.4	3210.8	3203.5	3093.8	2852.4	2793.9	2739.0	2728.1
47.5°	10945.1	5686.5	3221.7	3097.4	3112.0	3071.8	2837.8	2761.0	2695.1	2640.3	2622.0
50°	10992.7	5434.2	3020.6	2998.7	3002.3	2932.8	2709.8	2658.6	2574.5	2537.9	2512.3
52.5°	10744.0	5020.9	2834.1	2841.4	2852.4	2739.0	2552.5	2516.0	2446.5	2395.3	2380.7
55°	10045.5	4377.3	2651.3	2680.5	2709.8	2494.0	2435.5	2344.1	2289.2	2216.1	2219.7
57.5°	8849.7	3525.3	2395.3	2442.8	2505.0	2267.3	2223.4	2110.0	2029.6	1971.1	1963.8
60°	5931.5	2508.6	2011.3	2029.6	2168.6	2073.5	2069.8	1956.4	1846.7	1795.5	1766.3
62.5°	3499.7	1916.2	1737.0	1718.8	1715.1	1769.9	1861.4	1821.1	1678.5	1579.8	1609.0
65°	1832.1	1656.6	1616.4	1554.2	1517.6	1503.0	1572.5	1590.8	1495.7	1389.6	1382.3
67.5°	1539.6	1539.6	1506.6	1484.7	1433.5	1371.3	1327.5	1268.9	1254.3	1225.1	1188.5
70°	1400.6	1437.2	1426.2	1375.0	1331.1	1261.6	1148.3	1053.2	961.8	928.9	950.8
72.5°	1221.4	1258.0	1258.0	1232.4	1173.9	1067.8	958.1	848.4	771.6	713.1	705.8
75°	939.8	958.1	1002.0	972.7	895.9	830.1	716.8	603.4	530.3	475.4	464.4
77.5°	599.7	629.0	629.0	625.3	570.5	508.3	435.2	354.7	299.9	259.6	248.7
80°	398.6	416.9	431.5	416.9	380.3	332.8	277.9	223.1	182.8	149.9	142.6
82.5°	292.6	314.5	325.5	310.8	274.3	237.7	197.5	157.2	117.0	91.4	84.1
85°	113.4	117.0	131.6	157.2	153.6	149.9	120.7	87.8	65.8	47.5	43.9
87.5°	29.3	25.6	29.3	29.3	25.6	21.9	21.9	21.9	21.9	11.0	14.6
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)