

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: P531180

Luminaire Tested: **GALN-SA6C-722-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531180  
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-SA6C-722-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2200K, 1050mA 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: 26931 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

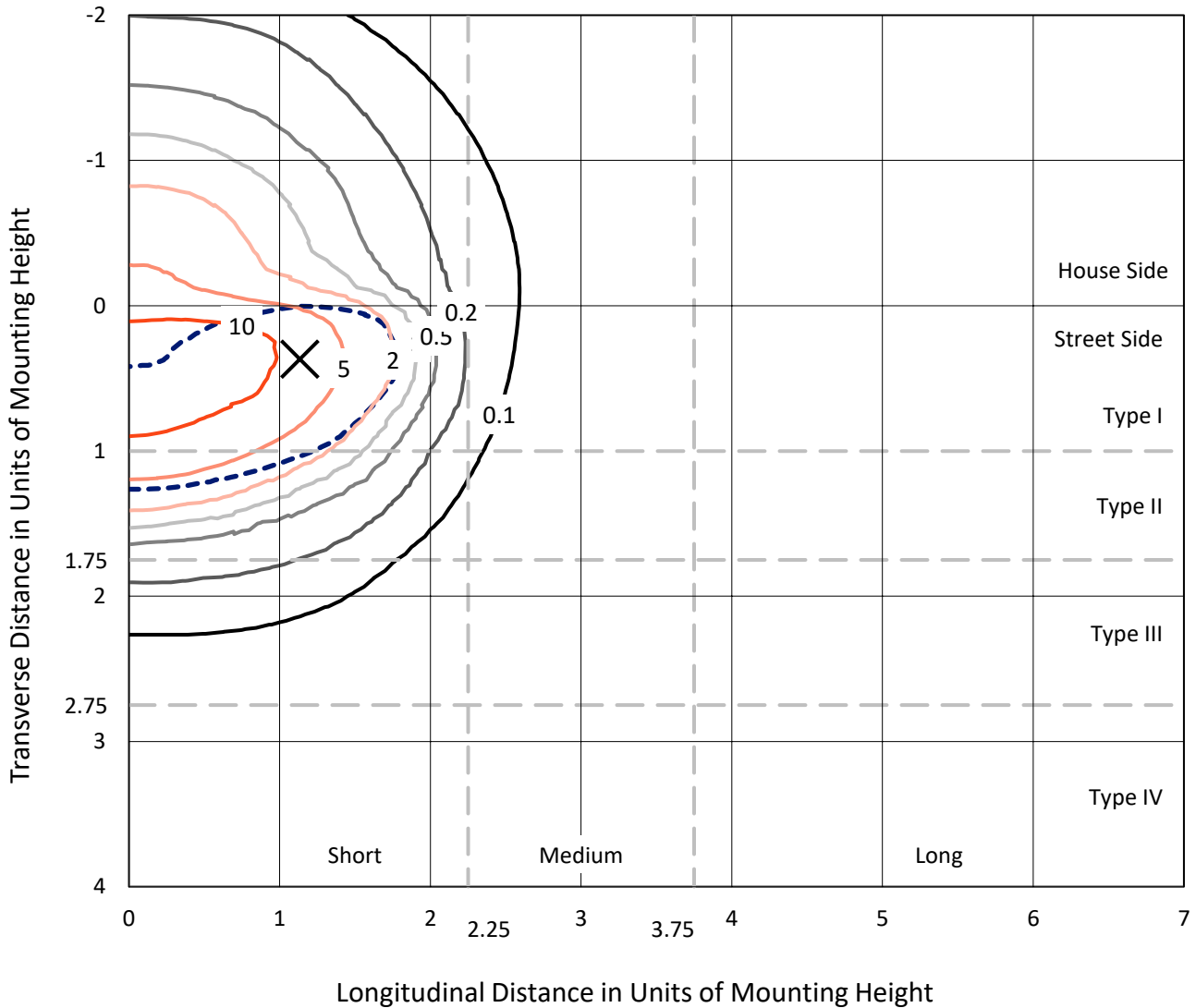
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

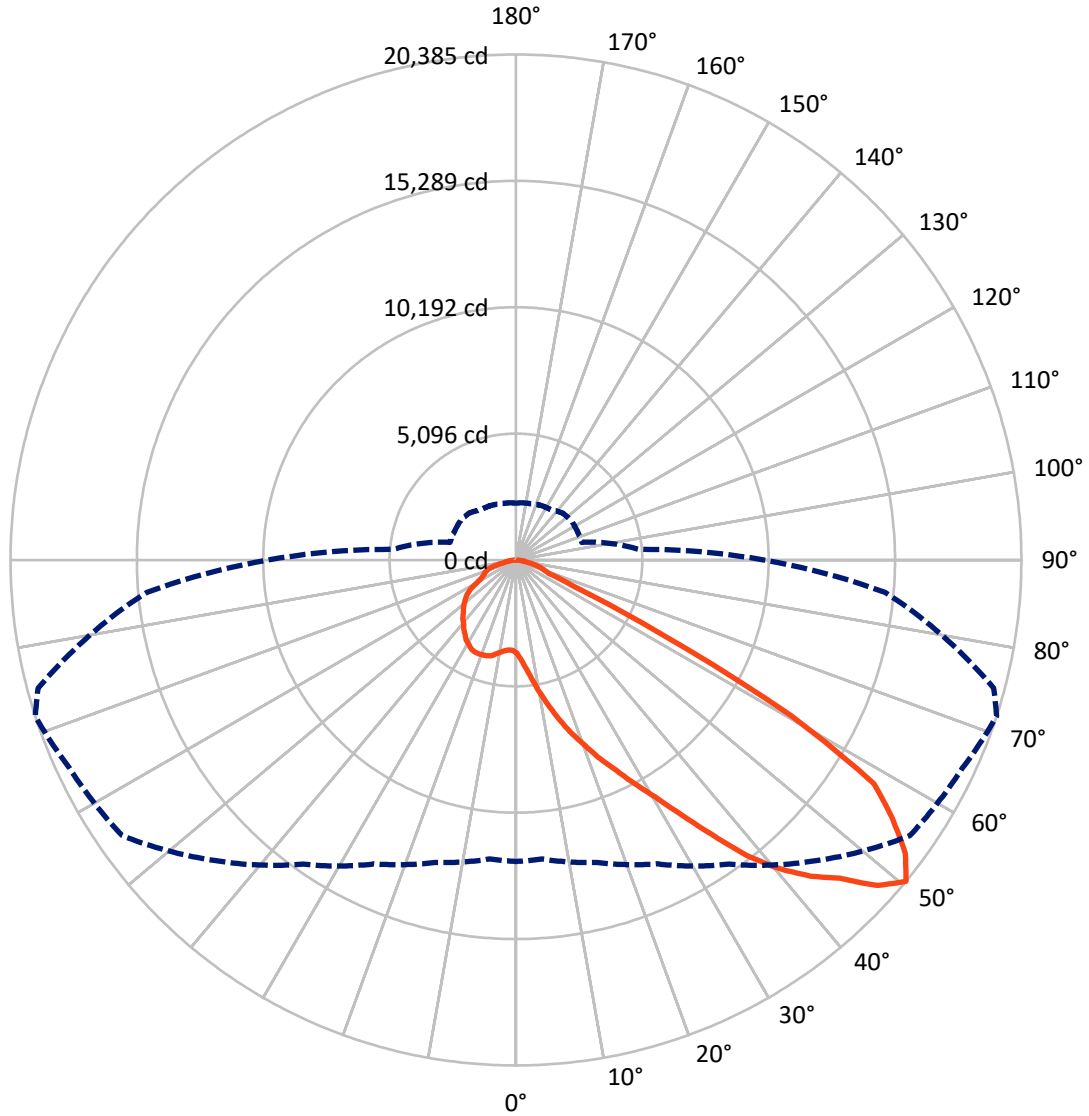
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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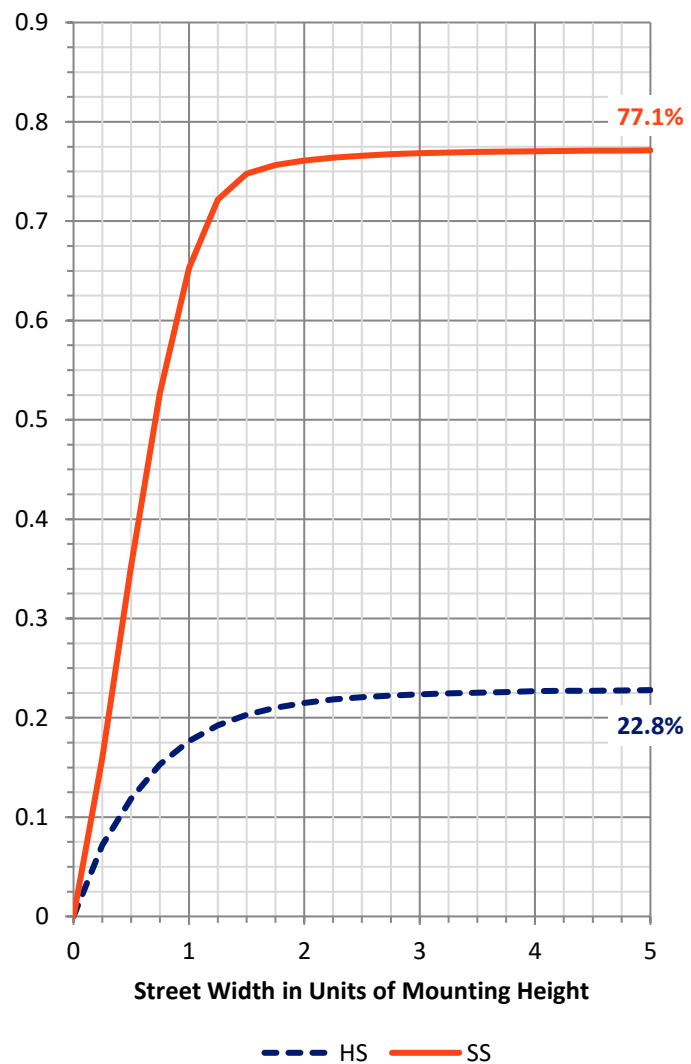
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6170.1	0.0	6170.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	20760.9	0.0	20760.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	26931.0	0.0	26931.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.0	1.6
10°-20°	1648.5	6.1
20°-30°	3196.4	11.9
30°-40°	5295.3	19.7
40°-50°	7409.3	27.5
50°-60°	6250.7	23.2
60°-70°	1905.2	7.1
70°-80°	668.4	2.5
80°-90°	116.2	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°	26931.0	100.0
0°-180°	26931.0	100.0



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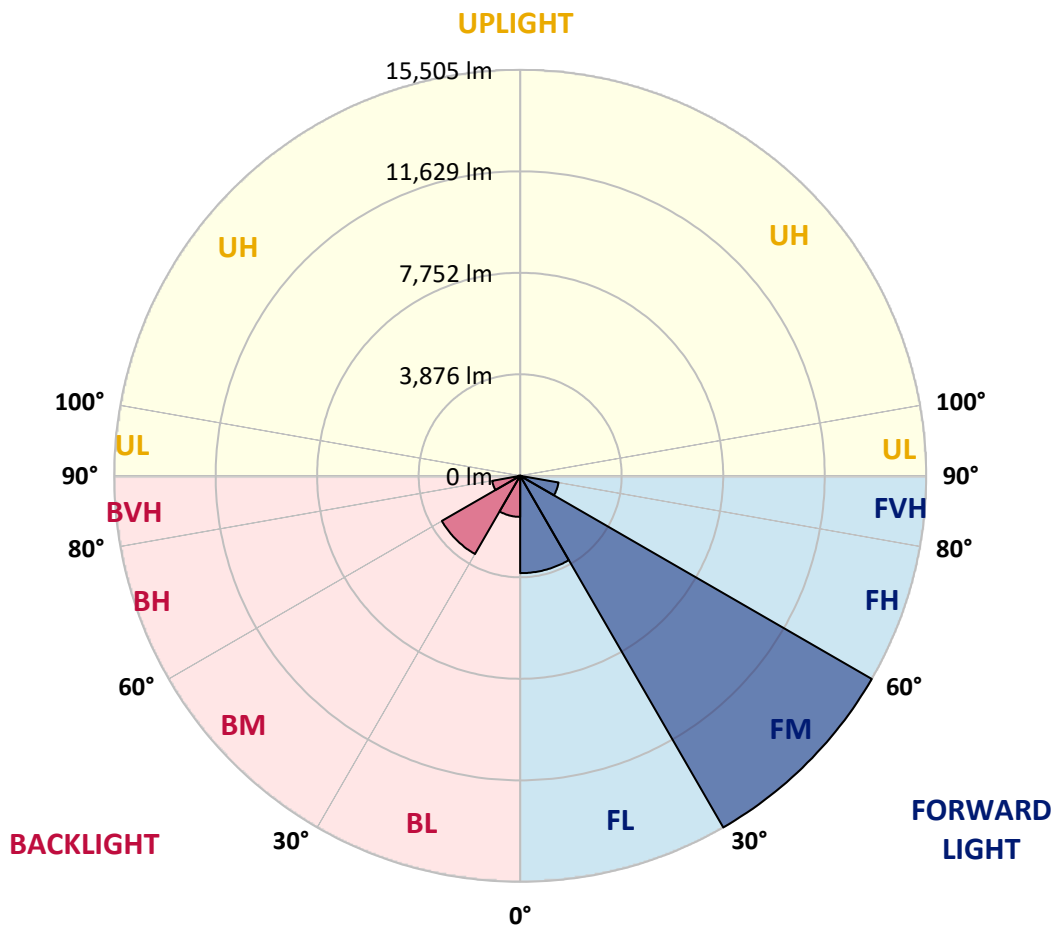
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3717.4	13.8			
FM (30°-60°)	15504.9	57.6			
FH (60°-80°)	1486.5	5.5			G1/1800
FVH (80°-90°)	52.0	0.2			G1/100
BL (0°-30°)	1568.5	5.8	B3/2500		
BM (30°-60°)	3450.4	12.8	B3/5000		
BH (60°-80°)	1087.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	64.2	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°	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0
2.5°	4822.1	4792.1	4702.1	4672.1	4565.5	4372.2	4305.5	4108.9	4025.6	3949.0	3859.0
5°	6098.4	5958.5	5948.5	5778.5	5531.9	5388.6	4962.0	4675.5	4412.2	4278.9	4032.3
7.5°	6911.5	6914.9	6914.9	6774.9	6578.3	6215.1	5831.8	5315.3	4918.7	4722.1	4302.2
10°	7684.7	7618.0	7581.4	7568.0	7434.7	7081.5	6671.6	6031.8	5488.6	5258.6	4505.5
12.5°	8231.2	8174.5	8257.9	8214.5	8117.9	7887.9	7501.4	6771.6	6091.7	5781.8	4832.1
15°	8491.1	8531.1	8597.8	8717.7	8674.4	8587.8	8161.2	7531.4	6741.6	6391.7	5122.0
17.5°	8891.0	8781.0	8861.0	9011.0	9131.0	9091.0	8847.7	8081.2	7384.7	6954.9	5511.9
20°	9170.9	9107.6	9147.6	9320.9	9410.9	9637.5	9510.9	8801.0	8001.3	7548.0	5971.8
22.5°	9970.7	9877.4	9747.5	9774.1	9807.4	9967.4	9997.4	9590.8	8717.7	8237.9	6408.3
25°	10957.1	10870.5	10717.2	10560.6	10463.9	10434.0	10537.3	10210.7	9404.2	8907.7	6878.2
27.5°	12043.5	11896.9	11800.3	11477.0	11217.1	11177.1	11127.1	10950.5	10217.3	9680.8	7408.1
30°	13099.9	12983.3	12853.3	12336.8	12066.9	12023.5	11776.9	11826.9	11100.4	10503.9	8007.9
32.5°	13899.7	13909.7	13613.1	13223.2	12970.0	12740.0	12650.0	12793.3	12233.5	11753.6	8677.7
35°	14546.2	14576.2	14292.9	13939.7	13666.4	13826.4	13786.4	13853.1	13586.5	13000.0	9457.5
37.5°	15176.1	15026.1	14722.8	14552.9	14409.6	14672.9	15012.8	15069.4	15119.4	14429.6	10364.0
40°	15279.4	15292.7	15116.1	15236.0	15056.1	15452.6	16242.4	16169.1	16372.4	15769.2	11347.0
42.5°	15132.7	15162.7	15232.7	15402.7	15835.9	16312.4	17485.5	17185.5	17432.1	16895.6	12303.5
45°	14892.8	14769.5	14856.1	15502.6	16252.4	17312.2	18621.8	18388.6	18308.6	17858.7	13443.2
47.5°	13746.4	13873.1	14143.0	14939.4	16065.8	17485.5	19428.3	19375.0	19614.9	19298.3	14479.6
50°	12156.8	12106.9	12626.7	13523.1	14976.1	17145.5	19385.0	19868.2	20384.7	19944.8	14942.8
52.5°	9104.3	9370.9	9817.4	10930.5	13003.3	15292.7	18438.5	19245.0	19664.9	19571.6	14569.5
55°	5755.2	5835.1	6105.1	7428.1	9294.2	12273.5	15805.9	17675.4	18425.2	18775.1	14226.3
57.5°	2795.9	2646.0	2975.9	4038.9	5368.6	8254.5	12190.2	15396.0	17025.6	17658.7	13479.8
60°	1459.6	1516.3	1646.2	2026.1	2775.9	4285.6	7598.0	10260.7	12750.0	13723.1	10217.3
62.5°	1209.7	1229.7	1316.3	1506.3	1846.2	2466.0	3879.0	5002.0	6501.6	7378.1	5811.8
65°	1026.4	1036.4	1129.7	1256.3	1473.0	1736.2	1996.1	2089.5	2529.3	2596.0	2066.1
67.5°	856.4	866.4	966.4	1086.4	1226.3	1296.3	1363.0	1356.3	1406.3	1386.3	1383.0
70°	659.8	669.8	773.1	899.8	969.7	929.8	1136.4	1183.0	1203.0	1219.7	1246.3
72.5°	476.5	496.5	576.5	666.5	629.8	723.1	936.4	1006.4	1033.1	1043.1	1076.4
75°	346.6	353.2	373.2	346.6	399.9	503.2	659.8	746.5	779.8	789.8	839.8
77.5°	153.3	156.6	160.0	199.9	256.6	313.3	393.2	463.2	509.9	523.2	536.5
80°	80.0	83.3	103.3	136.6	183.3	229.9	286.6	326.6	356.6	359.9	373.2
82.5°	50.0	53.3	73.3	96.6	130.0	170.0	209.9	243.3	266.6	269.9	273.3
85°	23.3	30.0	43.3	60.0	86.6	110.0	113.3	96.6	103.3	106.6	100.0
87.5°	6.7	10.0	13.3	10.0	13.3	13.3	16.7	20.0	20.0	20.0	23.3
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°	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0
2.5°	3809.0	3779.0	3662.4	3619.1	3505.8	3525.7	3465.8	3462.4	3449.1	3445.8	3442.4
5°	3902.3	3809.0	3669.0	3562.4	3499.1	3492.4	3449.1	3449.1	3462.4	3472.4	3449.1
7.5°	4055.6	3949.0	3712.4	3612.4	3555.7	3545.7	3515.8	3492.4	3522.4	3512.4	3485.8
10°	4232.2	4045.6	3795.7	3709.0	3615.7	3592.4	3592.4	3602.4	3552.4	3569.1	3542.4
12.5°	4428.8	4178.9	3902.3	3802.3	3692.4	3679.0	3672.4	3599.1	3625.7	3612.4	3545.7
15°	4678.8	4332.2	4038.9	3869.0	3775.7	3715.7	3629.1	3615.7	3599.1	3565.7	3535.7
17.5°	4948.7	4498.8	4102.3	3889.0	3749.0	3705.7	3639.1	3569.1	3519.1	3525.7	3502.4
20°	5178.7	4652.1	4125.6	3909.0	3729.0	3645.7	3542.4	3499.1	3445.8	3442.4	3439.1
22.5°	5451.9	4858.7	4158.9	3855.7	3669.0	3582.4	3512.4	3435.8	3399.1	3352.5	3375.8
25°	5778.5	4938.7	4165.6	3825.7	3625.7	3472.4	3435.8	3352.5	3339.1	3272.5	3285.8
27.5°	6015.1	4982.0	4112.3	3732.4	3525.7	3409.1	3342.5	3282.5	3259.2	3209.2	3195.8
30°	6331.7	5048.7	3999.0	3615.7	3425.8	3295.8	3255.8	3242.5	3175.8	3122.5	3115.9
32.5°	6691.6	5092.0	3925.6	3495.8	3322.5	3222.5	3242.5	3179.2	3095.9	3049.2	3035.9
35°	6978.2	5108.7	3742.4	3359.1	3252.5	3189.2	3165.8	3152.5	3032.5	2989.2	2955.9
37.5°	7414.7	5072.0	3589.1	3262.5	3175.8	3152.5	3132.5	3042.5	2905.9	2842.6	2795.9
40°	7924.6	5062.0	3392.5	3125.9	3102.5	3129.2	3069.2	2929.2	2739.3	2669.3	2636.0
42.5°	8414.5	5132.0	3269.1	3052.5	3022.5	3032.5	2949.2	2739.3	2646.0	2606.0	2552.7
45°	9234.3	5278.6	3065.9	2939.2	2925.9	2919.2	2819.3	2599.3	2546.0	2496.0	2486.0
47.5°	9974.1	5182.0	2935.9	2822.6	2835.9	2799.3	2586.0	2516.0	2456.0	2406.0	2389.4
50°	10017.4	4952.0	2752.6	2732.6	2736.0	2672.6	2469.4	2422.7	2346.1	2312.7	2289.4
52.5°	9790.8	4575.5	2582.7	2589.3	2599.3	2496.0	2326.1	2292.7	2229.4	2182.8	2169.4
55°	9154.3	3989.0	2416.0	2442.7	2469.4	2272.7	2219.4	2136.1	2086.1	2019.5	2022.8
57.5°	8064.6	3212.5	2182.8	2226.1	2282.7	2066.1	2026.1	1922.8	1849.5	1796.2	1789.5
60°	5405.3	2286.1	1832.9	1849.5	1976.2	1889.5	1886.2	1782.9	1682.9	1636.2	1609.6
62.5°	3189.2	1746.2	1582.9	1566.3	1562.9	1612.9	1696.2	1659.6	1529.6	1439.6	1466.3
65°	1669.6	1509.6	1473.0	1416.3	1383.0	1369.6	1433.0	1449.6	1363.0	1266.3	1259.7
67.5°	1403.0	1403.0	1373.0	1353.0	1306.3	1249.7	1209.7	1156.4	1143.0	1116.4	1083.1
70°	1276.3	1309.7	1299.7	1253.0	1213.0	1149.7	1046.4	959.8	876.4	846.4	866.4
72.5°	1113.0	1146.4	1146.4	1123.0	1069.7	973.1	873.1	773.1	703.2	649.8	643.2
75°	856.4	873.1	913.1	886.4	816.5	756.5	653.2	549.9	483.2	433.2	423.2
77.5°	546.5	573.2	573.2	569.9	519.9	463.2	396.6	323.2	273.3	236.6	226.6
80°	363.2	379.9	393.2	379.9	346.6	303.3	253.3	203.3	166.6	136.6	130.0
82.5°	266.6	286.6	296.6	283.3	249.9	216.6	180.0	143.3	106.6	83.3	76.6
85°	103.3	106.6	120.0	143.3	140.0	136.6	110.0	80.0	60.0	43.3	40.0
87.5°	26.7	23.3	26.7	26.7	23.3	20.0	20.0	20.0	20.0	10.0	13.3
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)