

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: P651472

Luminaire Tested: **GALN-SA6D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651472  
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-SA6D-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 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: 33901.5 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

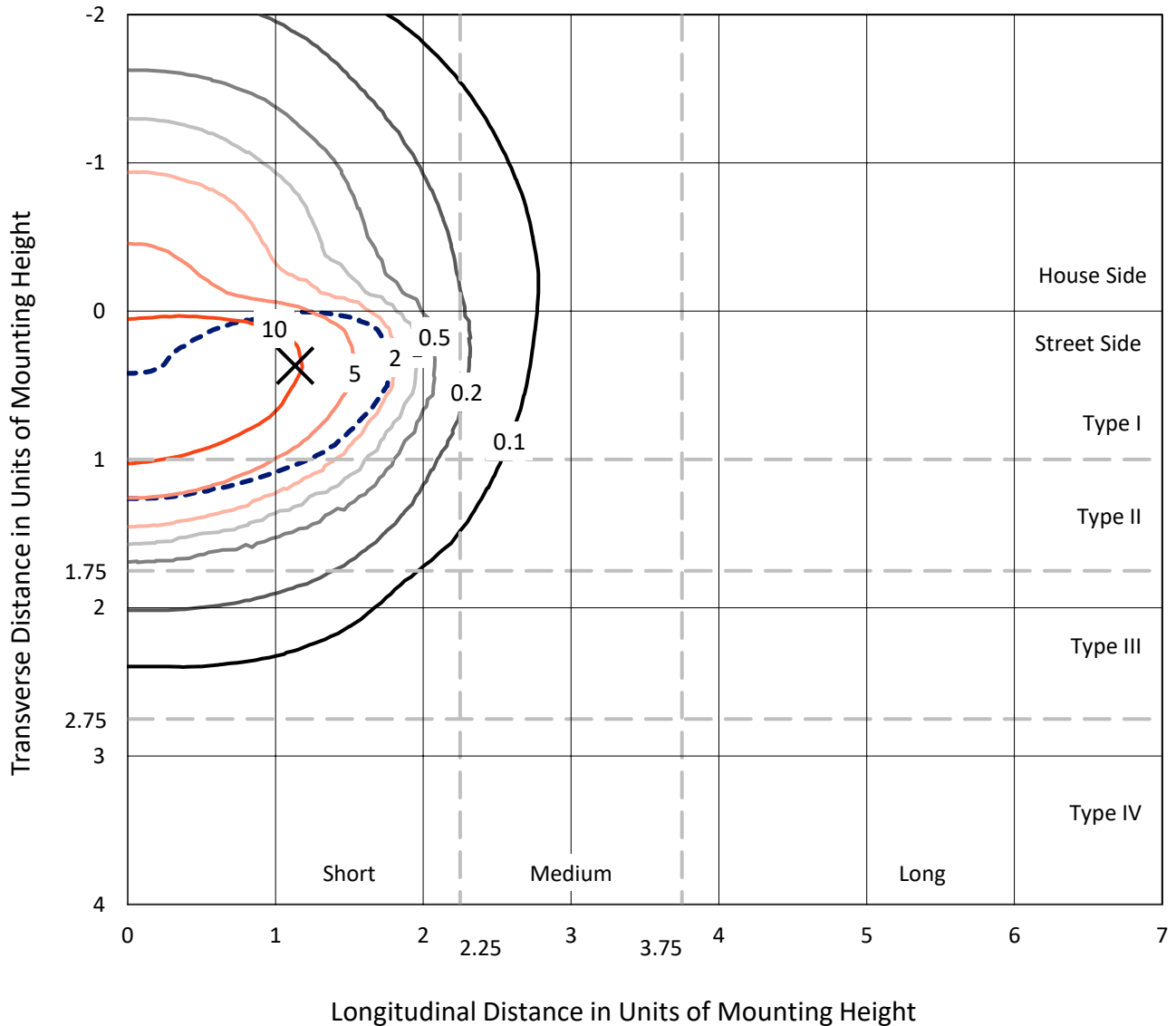
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

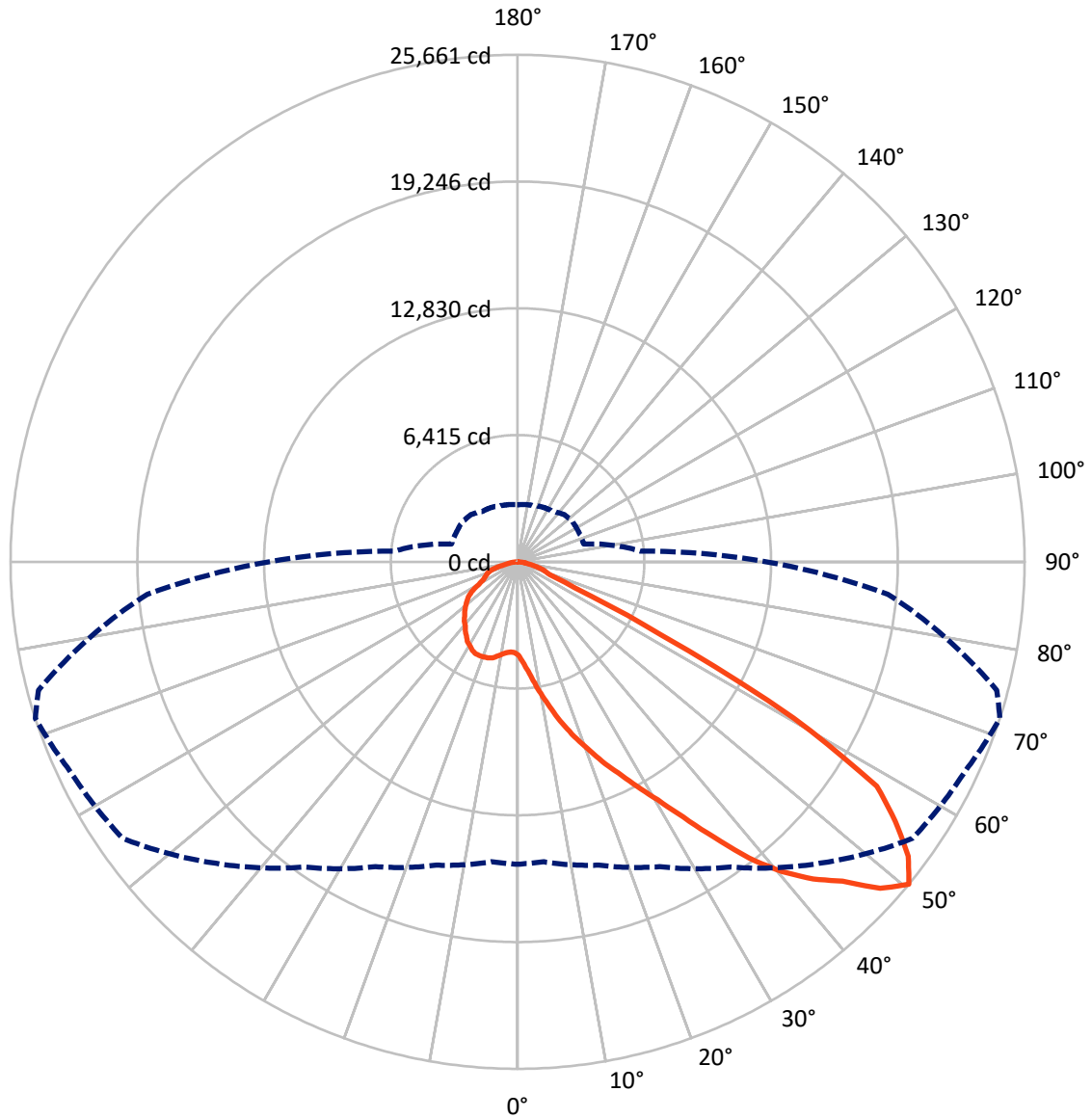
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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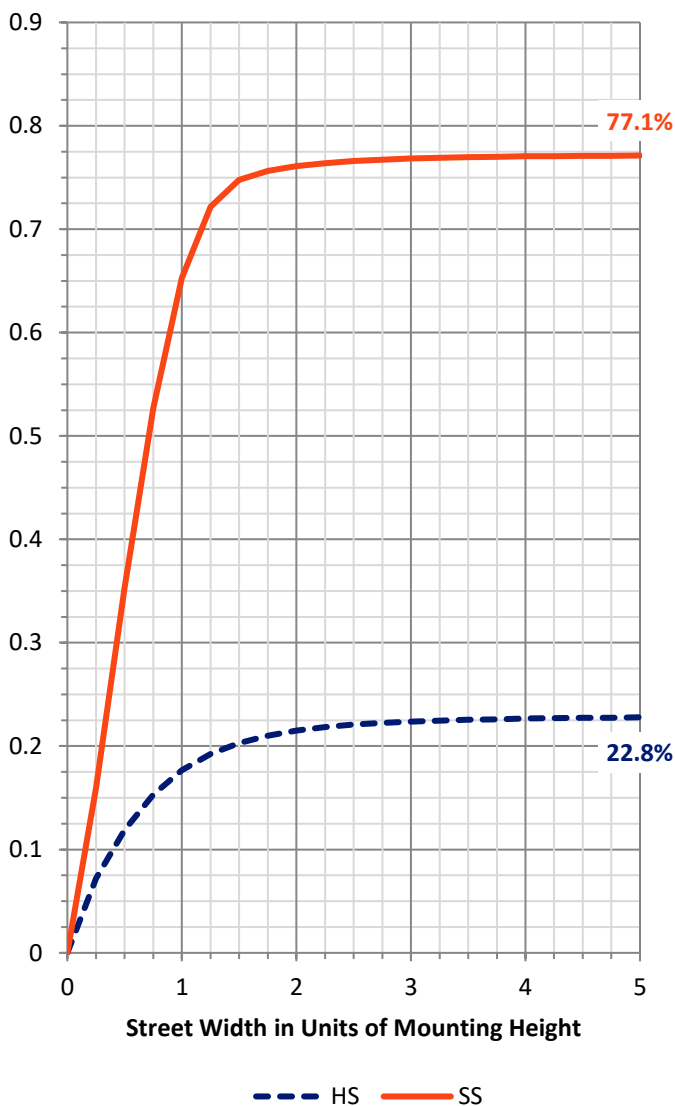
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7767.0	0.0	7767.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	26134.5	0.0	26134.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	33901.5	0.0	33901.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.1	1.6
10°-20°	2075.2	6.1
20°-30°	4023.7	11.9
30°-40°	6665.9	19.7
40°-50°	9327.0	27.5
50°-60°	7868.6	23.2
60°-70°	2398.3	7.1
70°-80°	841.4	2.5
80°-90°	146.3	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°	33901.5	100.0
0°-180°	33901.5	100.0

**Coefficient of Utilization**



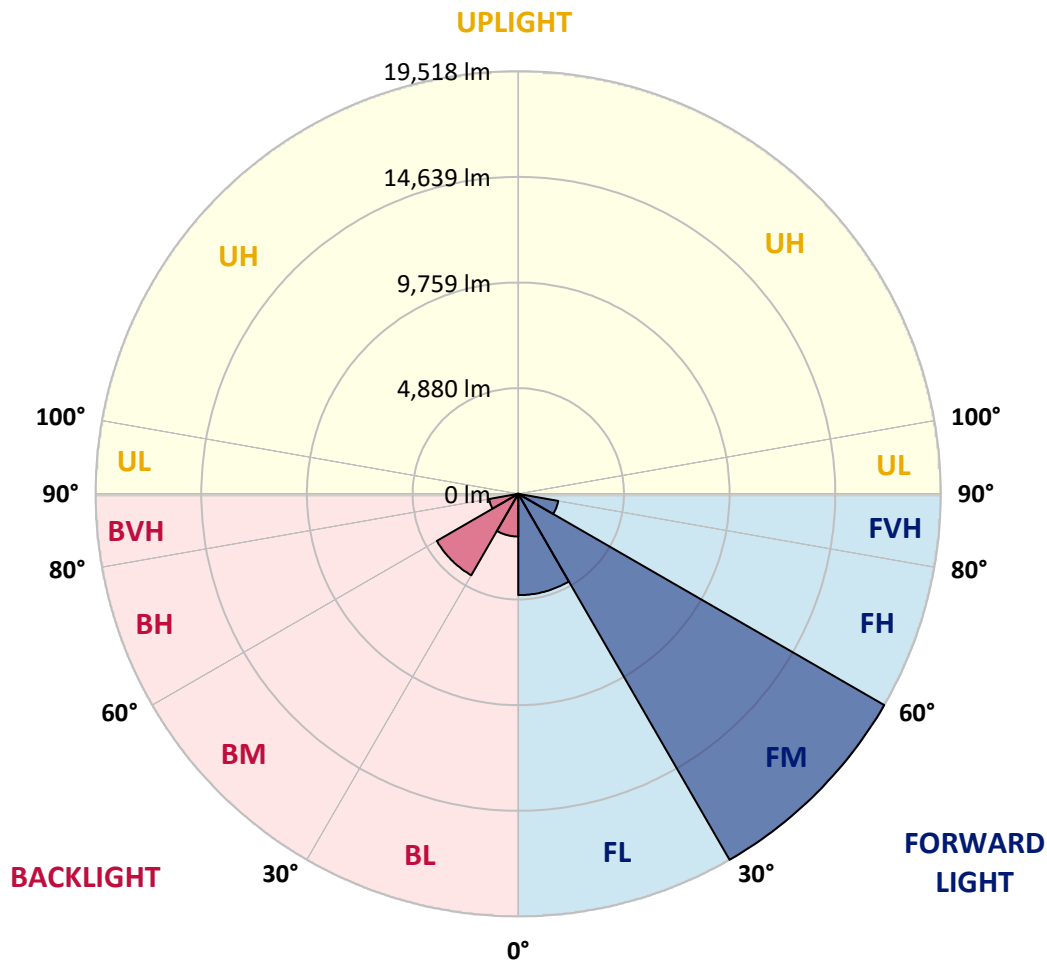
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4679.6	13.8			
FM (30°-60°)	19518.0	57.6			
FH (60°-80°)	1871.3	5.5			G2/5000
FVH (80°-90°)	65.5	0.2			G1/100
BL (0°-30°)	1974.4	5.8	B3/2500		
BM (30°-60°)	4343.5	12.8	B3/5000		
BH (60°-80°)	1368.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	80.8	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°	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4
2.5°	6070.2	6032.4	5919.1	5881.4	5747.1	5503.8	5420.0	5172.5	5067.5	4971.1	4857.8
5°	7676.9	7500.7	7488.1	7274.1	6963.7	6783.3	6246.4	5885.6	5554.2	5386.4	5075.9
7.5°	8700.5	8704.6	8704.6	8528.4	8280.9	7823.7	7341.3	6691.1	6191.9	5944.4	5415.8
10°	9673.7	9589.8	9543.7	9526.8	9359.1	8914.4	8398.4	7593.0	6909.2	6619.8	5671.6
12.5°	10361.7	10290.4	10395.3	10340.7	10219.1	9929.6	9443.0	8524.3	7668.5	7278.4	6082.8
15°	10688.9	10739.2	10823.1	10974.1	10919.6	10810.6	10273.6	9480.8	8486.5	8046.0	6447.7
17.5°	11192.3	11053.9	11154.5	11343.3	11494.3	11444.0	11137.8	10172.9	9296.2	8755.0	6938.6
20°	11544.7	11464.9	11515.3	11733.5	11846.7	12131.9	11972.6	11079.0	10072.2	9501.7	7517.4
22.5°	12551.5	12434.0	12270.4	12304.0	12345.9	12547.3	12585.1	12073.2	10974.1	10370.0	8067.0
25°	13793.2	13684.1	13491.2	13294.0	13172.3	13134.6	13264.6	12853.5	11838.3	11213.2	8658.5
27.5°	15160.8	14976.2	14854.5	14447.6	14120.4	14070.1	14007.1	13784.8	12861.9	12186.5	9325.5
30°	16490.6	16343.7	16180.2	15529.9	15190.1	15135.6	14825.1	14888.1	13973.6	13222.7	10080.6
32.5°	17497.3	17510.0	17136.6	16645.8	16327.0	16037.5	15924.3	16104.6	15399.9	14795.8	10923.8
35°	18311.2	18348.9	17992.4	17547.7	17203.7	17405.1	17354.8	17438.6	17103.1	16364.8	11905.4
37.5°	19104.1	18915.3	18533.5	18319.6	18139.2	18470.6	18898.5	18969.8	19032.8	18164.4	13046.5
40°	19234.1	19250.9	19028.6	19179.6	18953.0	19452.2	20446.5	20354.2	20610.1	19850.8	14284.0
42.5°	19049.6	19087.3	19175.4	19389.3	19934.6	20534.5	22011.2	21633.6	21944.1	21268.7	15487.9
45°	18747.5	18592.2	18701.3	19515.2	20459.1	21793.1	23441.7	23148.0	23047.4	22481.0	16922.7
47.5°	17304.4	17463.8	17803.6	18806.2	20224.1	22011.2	24456.9	24389.8	24691.8	24293.3	18227.3
50°	15303.4	15240.4	15894.9	17023.4	18852.4	21583.3	24402.4	25010.7	25660.8	25107.1	18810.4
52.5°	11460.7	11796.4	12358.5	13759.6	16368.9	19250.9	23211.0	24226.2	24754.8	24637.3	18340.6
55°	7244.8	7345.5	7685.2	9350.7	11699.9	15450.2	19897.0	22250.3	23194.2	23634.7	17908.5
57.5°	3519.6	3330.9	3746.2	5084.3	6758.2	10391.1	15345.3	19380.9	21432.3	22229.3	16968.8
60°	1837.4	1908.7	2072.3	2550.6	3494.4	5394.8	9564.6	12916.4	16050.1	17275.1	12861.9
62.5°	1522.8	1547.9	1657.0	1896.1	2324.0	3104.3	4883.0	6296.7	8184.4	9287.8	7316.1
65°	1292.0	1304.6	1422.1	1581.5	1854.2	2185.6	2512.8	2630.3	3184.0	3267.9	2600.9
67.5°	1078.1	1090.7	1216.6	1367.6	1543.7	1631.9	1715.7	1707.4	1770.3	1745.2	1741.0
70°	830.6	843.2	973.2	1132.7	1220.7	1170.4	1430.5	1489.2	1514.4	1535.4	1569.0
72.5°	599.9	625.0	725.7	839.0	792.9	910.3	1178.8	1266.9	1300.4	1313.1	1355.0
75°	436.3	444.6	469.9	436.3	503.4	633.4	830.6	939.6	981.6	994.2	1057.1
77.5°	193.0	197.1	201.3	251.7	323.0	394.3	495.0	583.1	641.9	658.6	675.4
80°	100.7	104.9	130.0	172.0	230.7	289.5	360.8	411.1	448.8	453.0	469.9
82.5°	62.9	67.1	92.3	121.7	163.6	214.0	264.3	306.2	335.6	339.8	344.0
85°	29.4	37.8	54.5	75.5	109.1	138.4	142.6	121.7	130.0	134.2	125.8
87.5°	8.4	12.6	16.8	12.6	16.8	16.8	20.9	25.1	25.1	25.1	29.4
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°	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4	4719.4
2.5°	4794.9	4757.1	4610.3	4555.8	4413.1	4438.3	4362.8	4358.7	4341.8	4337.6	4333.4
5°	4912.4	4794.9	4618.7	4484.5	4404.7	4396.3	4341.8	4341.8	4358.7	4371.2	4341.8
7.5°	5105.3	4971.1	4673.3	4547.4	4476.1	4463.5	4425.8	4396.3	4434.1	4421.6	4388.0
10°	5327.7	5092.8	4778.1	4669.1	4551.6	4522.2	4522.2	4534.8	4471.8	4492.9	4459.3
12.5°	5575.2	5260.5	4912.4	4786.5	4648.0	4631.3	4622.9	4530.6	4564.2	4547.4	4463.5
15°	5889.8	5453.5	5084.3	4870.4	4752.9	4677.5	4568.4	4551.6	4530.6	4488.7	4450.9
17.5°	6229.6	5663.3	5164.1	4895.5	4719.4	4664.9	4580.9	4492.9	4430.0	4438.3	4408.9
20°	6519.0	5856.2	5193.4	4920.8	4694.2	4589.3	4459.3	4404.7	4337.6	4333.4	4329.2
22.5°	6863.1	6116.3	5235.4	4853.7	4618.7	4509.6	4421.6	4325.1	4278.9	4220.1	4249.6
25°	7274.1	6217.0	5243.7	4815.9	4564.2	4371.2	4325.1	4220.1	4203.4	4119.5	4136.3
27.5°	7572.0	6271.5	5176.6	4698.4	4438.3	4291.5	4207.6	4132.1	4102.7	4039.8	4023.0
30°	7970.5	6355.4	5034.0	4551.6	4312.5	4148.9	4098.5	4081.7	3997.9	3930.7	3922.3
32.5°	8423.5	6409.9	4941.7	4400.5	4182.5	4056.6	4081.7	4002.1	3897.2	3838.4	3821.7
35°	8784.3	6431.0	4711.0	4228.5	4094.3	4014.6	3985.2	3968.5	3817.5	3762.9	3721.0
37.5°	9333.9	6384.8	4518.0	4106.9	3997.9	3968.5	3943.3	3830.1	3658.0	3578.4	3519.6
40°	9975.7	6372.3	4270.5	3935.0	3905.5	3939.1	3863.6	3687.4	3448.3	3360.2	3318.2
42.5°	10592.4	6460.3	4115.3	3842.6	3804.9	3817.5	3712.6	3448.3	3330.9	3280.5	3213.4
45°	11624.4	6644.9	3859.4	3700.0	3683.2	3674.8	3548.9	3272.1	3205.0	3142.1	3129.4
47.5°	12555.6	6523.2	3695.8	3553.1	3570.0	3523.8	3255.3	3167.2	3091.7	3028.8	3007.8
50°	12610.2	6233.7	3465.1	3439.9	3444.1	3364.4	3108.5	3049.8	2953.3	2911.4	2881.9
52.5°	12324.9	5759.8	3251.1	3259.5	3272.1	3142.1	2928.1	2886.1	2806.5	2747.7	2731.0
55°	11523.7	5021.4	3041.4	3074.9	3108.5	2861.0	2793.9	2689.0	2626.1	2542.2	2546.4
57.5°	10152.0	4043.9	2747.7	2802.3	2873.6	2600.9	2550.6	2420.5	2328.2	2261.1	2252.7
60°	6804.3	2877.8	2307.3	2328.2	2487.7	2378.6	2374.4	2244.3	2118.5	2059.8	2026.2
62.5°	4014.6	2198.2	1992.7	1971.6	1967.4	2030.4	2135.3	2089.1	1925.5	1812.3	1845.8
65°	2101.7	1900.3	1854.2	1782.9	1741.0	1724.1	1803.9	1824.8	1715.7	1594.1	1585.7
67.5°	1766.1	1766.1	1728.3	1703.2	1644.4	1573.1	1522.8	1455.7	1438.9	1405.3	1363.3
70°	1606.6	1648.6	1636.1	1577.3	1527.0	1447.3	1317.3	1208.2	1103.3	1065.5	1090.7
72.5°	1401.1	1443.1	1443.1	1413.7	1346.6	1224.9	1099.1	973.2	885.2	818.0	809.6
75°	1078.1	1099.1	1149.4	1115.8	1027.8	952.3	822.2	692.1	608.3	545.4	532.8
77.5°	688.0	721.6	721.6	717.4	654.4	583.1	499.2	406.9	344.0	297.9	285.3
80°	457.3	478.2	495.0	478.2	436.3	381.7	318.8	255.9	209.7	172.0	163.6
82.5°	335.6	360.8	373.3	356.6	314.6	272.7	226.6	180.4	134.2	104.9	96.5
85°	130.0	134.2	151.0	180.4	176.2	172.0	138.4	100.7	75.5	54.5	50.4
87.5°	33.6	29.4	33.6	33.6	29.4	25.1	25.1	25.1	25.1	12.6	16.8
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)