

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: P452766

Luminaire Tested: **GALN-SA3D-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19764 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

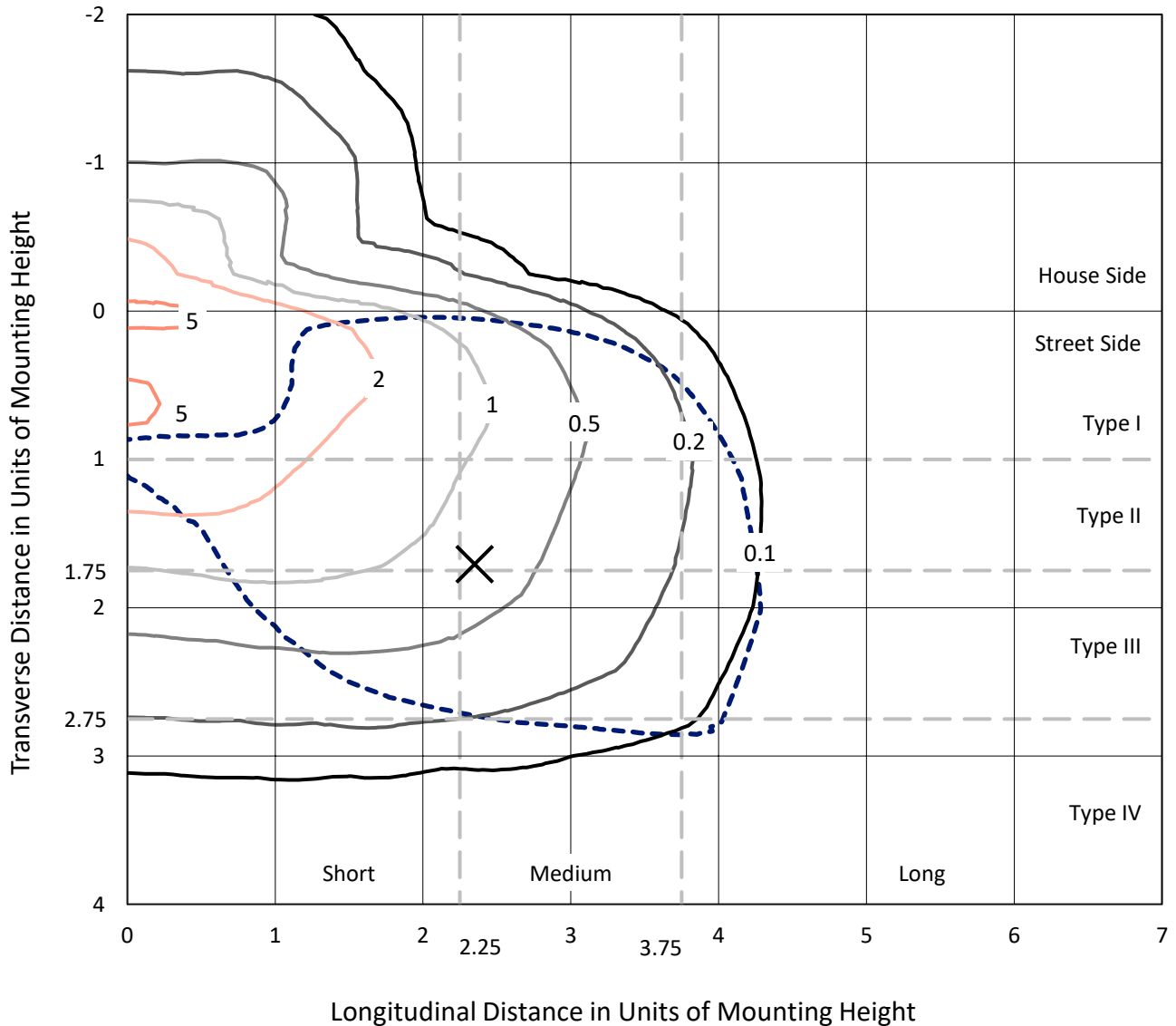
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

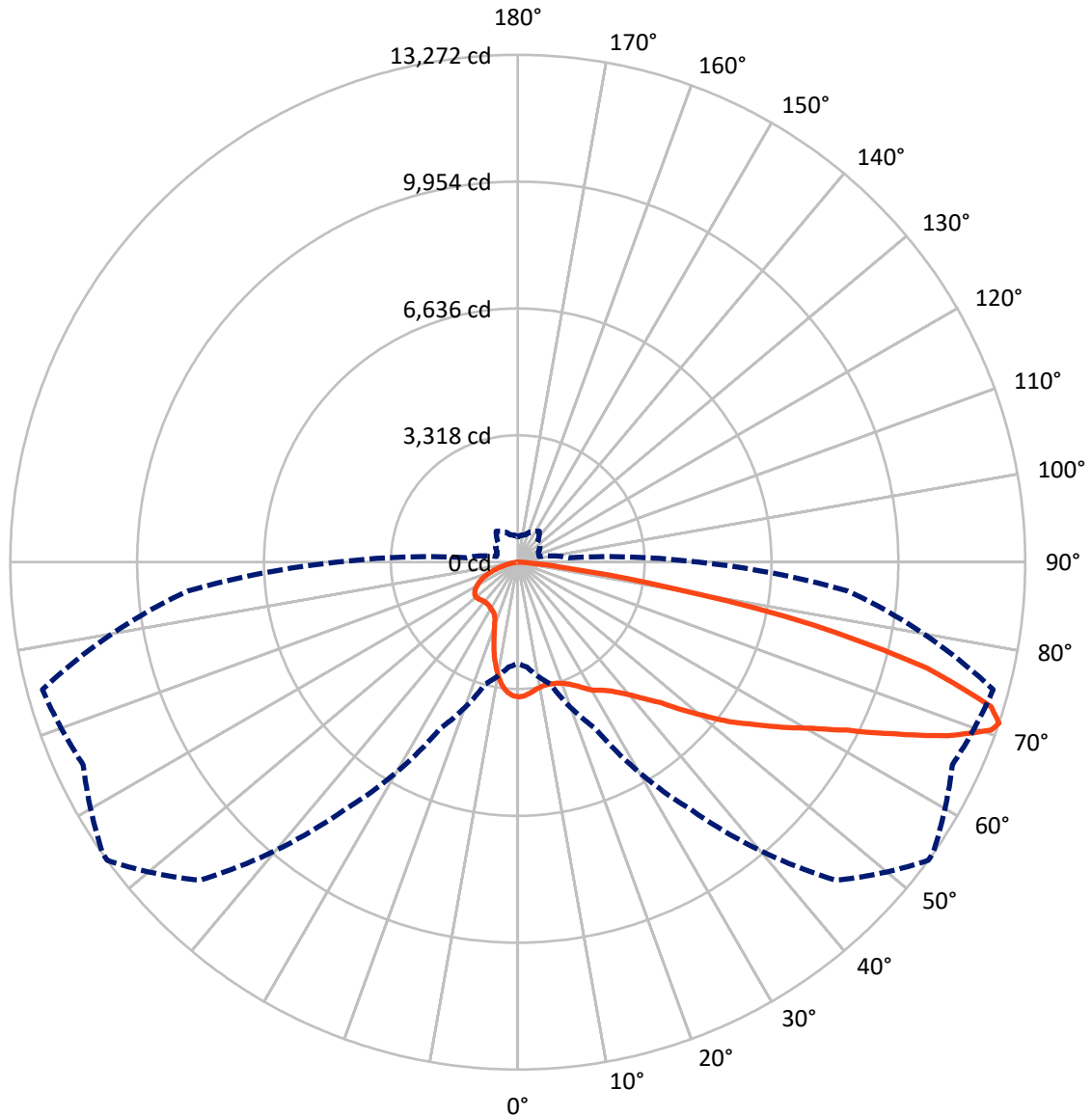
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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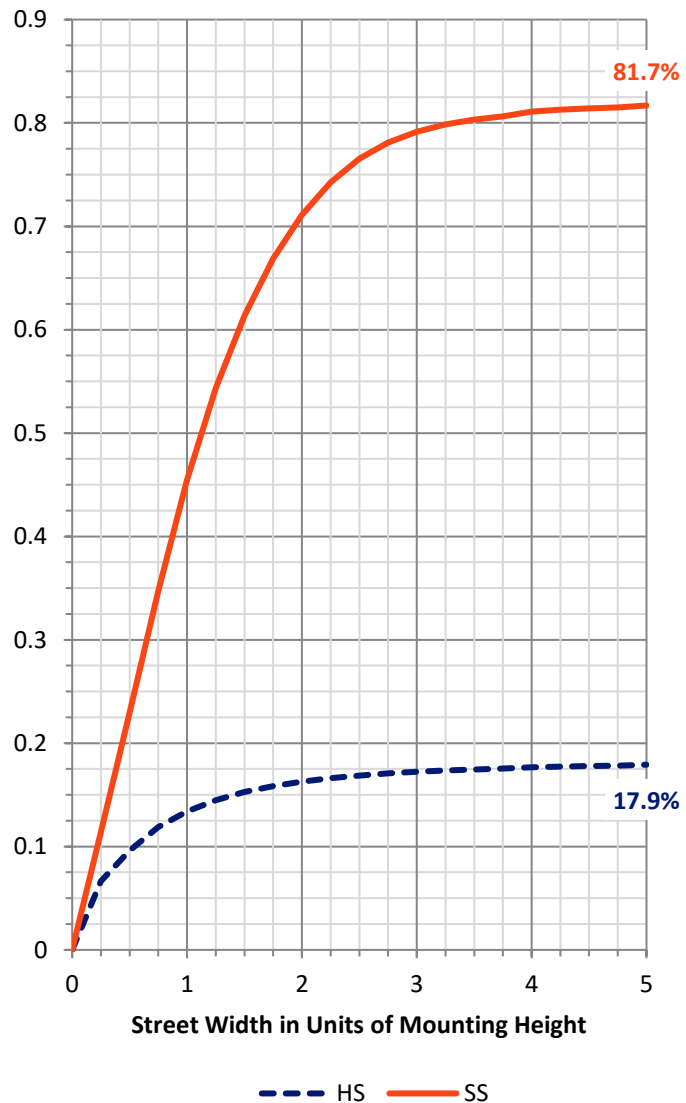
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3568.3	0.0	3568.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16195.7	0.0	16195.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	19764.0	0.0	19764.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	1.6
10°-20°	829.7	4.2
20°-30°	1381.6	7.0
30°-40°	2042.9	10.3
40°-50°	2877.5	14.6
50°-60°	3853.0	19.5
60°-70°	4856.5	24.6
70°-80°	3316.9	16.8
80°-90°	291.7	1.5
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°	19764.0	100.0
0°-180°	19764.0	100.0



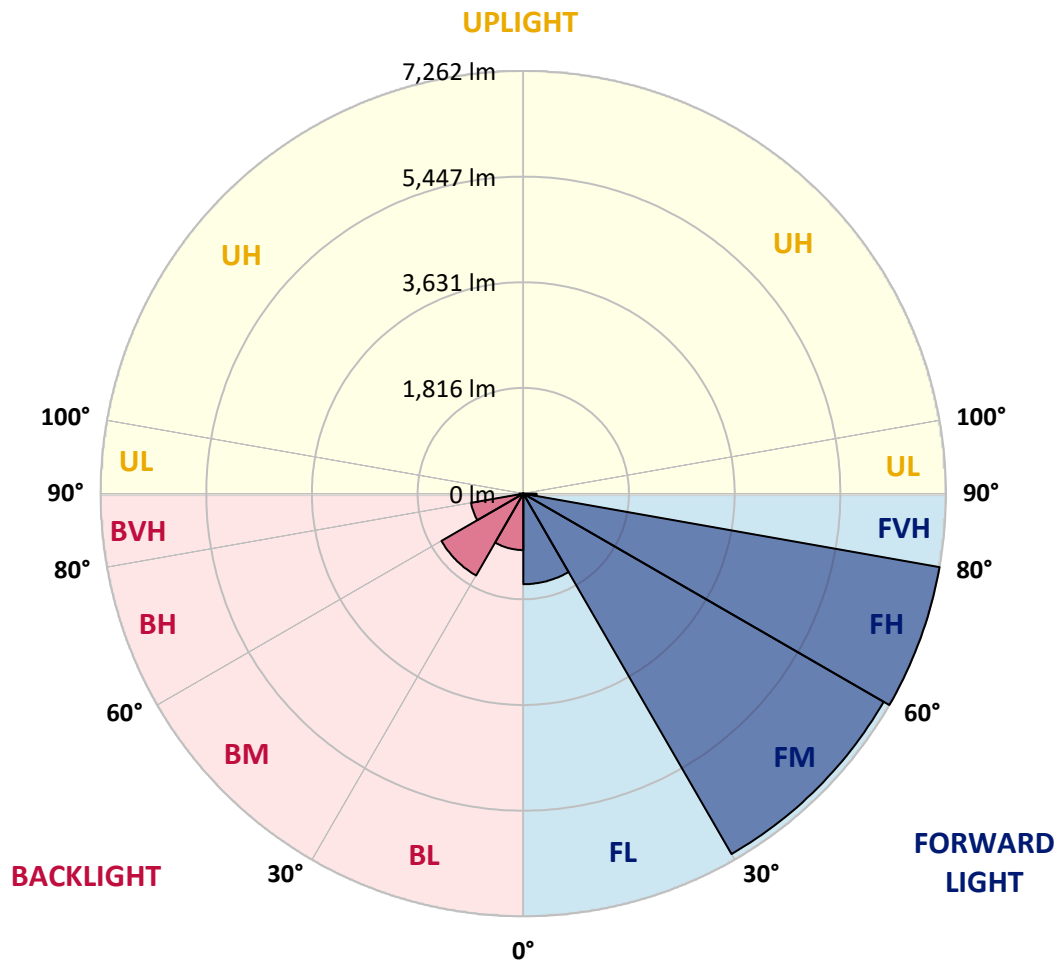
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1555.7	7.9			
FM	(30°-60°)	7149.9	36.2			
FH	(60°-80°)	7262.1	36.7			G3/7500
FVH	(80°-90°)	228.0	1.2			G3/500
BL	(0°-30°)	969.8	4.9	B2/1000		
BM	(30°-60°)	1623.5	8.2	B2/2500		
BH	(60°-80°)	911.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	63.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2
2.5°	3406.6	3422.6	3426.9	3437.6	3460.0	3478.1	3496.3	3494.2	3519.8	3530.5	3540.1
5°	3255.0	3259.3	3275.3	3296.7	3336.2	3386.3	3435.4	3436.5	3499.5	3549.7	3574.2
7.5°	3144.0	3157.9	3168.6	3191.0	3232.6	3287.1	3365.0	3371.4	3483.5	3582.8	3635.1
10°	3071.4	3087.4	3099.2	3126.9	3168.6	3229.4	3313.7	3325.5	3471.7	3635.1	3726.9
12.5°	3005.2	3021.2	3031.9	3068.2	3122.6	3197.4	3292.4	3306.3	3476.0	3695.9	3827.2
15°	3045.8	3058.6	3054.3	3065.0	3101.3	3186.7	3300.9	3314.8	3492.0	3754.7	3926.5
17.5°	3226.2	3236.9	3201.6	3161.1	3144.0	3207.0	3327.6	3342.6	3524.1	3815.5	4027.9
20°	3492.0	3520.9	3444.0	3353.2	3271.0	3279.6	3383.1	3399.1	3568.9	3876.4	4131.5
22.5°	3837.9	3859.3	3765.3	3615.9	3464.3	3386.3	3466.4	3476.0	3636.2	3955.4	4244.7
25°	4244.7	4257.5	4127.2	3935.1	3716.2	3568.9	3580.6	3597.7	3747.2	4045.0	4345.0
27.5°	4639.7	4680.2	4529.7	4294.8	4006.6	3761.1	3737.6	3748.2	3867.8	4095.2	4414.4
30°	5108.3	5105.1	4946.1	4673.8	4304.5	3970.3	3886.0	3883.8	3932.9	4119.8	4464.6
32.5°	5482.0	5525.8	5369.9	5073.1	4645.0	4187.0	3988.4	3984.2	3983.1	4162.5	4539.3
35°	5906.9	5913.3	5770.2	5471.3	5013.3	4459.2	4131.5	4110.2	4085.6	4254.3	4640.7
37.5°	6286.9	6316.8	6185.5	5850.3	5375.2	4742.2	4327.9	4314.1	4239.3	4413.3	4803.0
40°	6583.7	6606.1	6527.1	6207.9	5731.8	5047.5	4577.7	4552.1	4461.4	4673.8	5019.7
42.5°	6680.9	6726.8	6757.7	6600.8	6141.7	5409.4	4885.2	4853.2	4783.8	5068.8	5269.5
45°	6688.3	6760.9	6924.3	6931.7	6553.8	5842.8	5243.9	5221.5	5216.2	5574.9	5620.8
47.5°	6631.8	6705.4	6979.8	7128.2	6921.1	6280.5	5761.7	5726.5	5729.7	6200.5	6014.7
50°	6495.1	6582.6	6915.7	7254.2	7208.2	6735.3	6308.3	6296.5	6362.7	6914.7	6423.6
52.5°	6237.8	6343.5	6849.5	7333.2	7421.8	7127.1	6929.6	6896.5	7064.1	7689.7	6870.9
55°	5525.8	5684.8	6607.2	7376.9	7624.6	7501.8	7489.0	7548.8	7770.9	8535.2	7363.0
57.5°	5154.2	5273.8	6080.9	7384.4	7880.8	7937.4	8142.4	8157.3	8545.9	9433.1	7919.2
60°	4951.4	5057.1	5792.6	7335.3	8238.5	8476.5	8810.7	8864.1	9302.8	10405.6	8495.7
62.5°	4774.2	4864.9	5619.7	7165.5	8642.0	9276.1	9676.5	9702.1	10162.2	11479.6	9064.8
65°	4356.8	4460.3	5271.7	6995.8	8990.0	10275.4	10825.2	10795.3	11077.1	12406.3	9421.3
67.5°	3794.2	3925.5	4621.5	6409.7	9161.9	11367.5	12119.1	12081.7	11980.3	13013.7	9523.8
70°	3075.7	3146.1	3789.9	5396.6	8475.5	11940.8	13140.7	13101.2	12539.7	13093.8	9039.1
71°	2646.5	2756.5	3299.9	4793.4	7904.3	11765.7	13272.1	13261.4	12540.8	12872.8	8674.0
72.5°	2065.8	2133.0	2613.4	3714.1	6718.2	10770.7	12947.5	12988.1	12268.5	12258.9	7921.4
75°	1306.7	1336.6	1639.8	2186.4	3686.3	7627.8	11052.6	11162.5	10893.5	10034.1	5890.9
77.5°	759.0	797.5	982.2	1288.6	1592.8	4140.0	7908.6	8028.1	7569.1	5524.7	2411.6
80°	442.0	484.7	646.9	748.4	731.3	1536.2	4026.9	4230.8	3277.4	1395.3	676.8
82.5°	245.5	274.4	454.8	455.9	389.7	501.8	1267.2	1325.9	935.2	562.6	276.5
85°	178.3	201.8	293.6	265.8	186.8	215.6	440.9	462.3	377.9	237.0	89.7
87.5°	63.0	89.7	161.2	128.1	51.2	44.8	127.0	103.6	96.1	66.2	20.3
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°	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2	3526.2
2.5°	3545.4	3547.5	3536.9	3517.6	3498.4	3473.9	3446.1	3424.8	3415.2	3414.1	3413.0
5°	3583.8	3589.2	3548.6	3488.8	3422.6	3341.5	3272.1	3193.1	3172.8	3140.8	3150.4
7.5°	3645.8	3642.6	3562.5	3435.4	3280.6	3108.8	2963.6	2879.2	2791.7	2767.1	2768.2
10°	3734.4	3714.1	3562.5	3326.6	3068.2	2813.1	2610.2	2482.1	2412.7	2355.1	2333.7
12.5°	3828.3	3777.1	3528.3	3173.9	2794.9	2482.1	2264.3	2091.4	2046.5	1999.6	2000.6
15°	3918.0	3832.6	3461.1	2959.3	2500.3	2128.7	1917.4	1813.8	1799.9	1805.3	1804.2
17.5°	3999.1	3872.1	3358.6	2720.2	2156.5	1825.5	1713.5	1720.9	1758.3	1785.0	1788.2
20°	4081.3	3895.6	3205.9	2399.9	1832.0	1641.9	1646.2	1704.9	1761.5	1797.8	1803.1
22.5°	4159.3	3906.2	3026.6	2090.3	1597.1	1564.0	1627.0	1690.0	1745.5	1780.7	1786.0
25°	4210.5	3881.7	2772.5	1766.8	1481.8	1536.2	1602.4	1655.8	1702.8	1739.1	1747.6
27.5°	4224.4	3802.7	2457.6	1505.3	1428.4	1509.5	1570.4	1609.9	1646.2	1680.4	1686.8
30°	4216.9	3686.3	2111.7	1351.5	1397.5	1478.6	1525.6	1554.4	1598.2	1624.8	1630.2
32.5°	4205.2	3550.7	1750.8	1269.3	1371.8	1449.8	1477.5	1503.1	1502.1	1491.4	1498.9
35°	4209.4	3388.5	1458.3	1220.2	1349.4	1428.4	1451.9	1419.9	1328.1	1323.8	1319.5
37.5°	4231.9	3228.3	1245.9	1186.1	1337.7	1425.2	1438.0	1290.7	1209.6	1172.2	1162.6
40°	4289.5	3041.5	1106.0	1160.5	1336.6	1449.8	1375.0	1225.6	1069.7	997.1	991.8
42.5°	4366.4	2857.9	1020.6	1144.4	1349.4	1487.1	1349.4	1133.8	964.0	921.3	914.9
45°	4480.6	2647.6	973.6	1137.0	1368.6	1501.0	1340.9	1066.5	921.3	887.2	887.2
47.5°	4609.8	2446.9	948.0	1131.6	1393.2	1491.4	1265.1	1045.2	901.0	905.3	925.6
50°	4737.9	2272.9	928.8	1119.9	1414.5	1486.1	1234.1	1044.1	906.4	960.8	997.1
52.5°	4886.3	2150.1	905.3	1100.7	1414.5	1451.9	1224.5	1065.4	921.3	937.3	953.3
55°	5065.6	2111.7	875.4	1059.0	1388.9	1366.5	1219.2	1096.4	932.0	894.6	901.0
57.5°	5302.6	2173.6	846.6	1006.7	1330.2	1277.9	1217.0	1104.9	907.4	876.5	870.1
60°	5578.1	2296.3	838.0	953.3	1250.1	1202.1	1204.2	1080.4	873.3	841.2	846.6
62.5°	5771.3	2370.0	832.7	912.8	1162.6	1118.8	1173.3	1050.5	858.3	830.6	835.9
65°	5771.3	2280.3	783.6	850.9	1049.4	1018.5	1135.9	1013.1	839.1	807.1	801.7
67.5°	5552.4	2018.8	708.9	758.0	924.5	904.2	1083.6	968.3	810.3	785.7	772.9
70°	4982.4	1530.9	614.9	649.1	766.5	784.7	1016.3	907.4	762.2	732.4	713.1
71°	4731.5	1333.4	575.4	593.6	705.7	732.4	984.3	881.8	740.9	698.2	664.0
72.5°	4247.9	1123.1	515.6	523.1	603.2	651.2	917.0	832.7	700.3	639.5	601.0
75°	3227.3	819.9	415.3	411.0	446.2	516.7	776.1	742.0	613.9	531.7	509.2
77.5°	1394.2	446.2	310.7	313.9	303.2	391.8	610.7	637.3	526.3	432.4	412.1
80°	422.8	257.3	212.4	216.7	202.8	262.6	430.2	499.6	422.8	336.3	308.5
82.5°	216.7	153.7	145.2	143.1	129.2	148.4	260.5	341.6	302.1	210.3	185.8
85°	93.9	82.2	71.5	69.4	60.9	53.4	92.9	170.8	160.1	117.4	112.1
87.5°	23.5	21.4	13.9	12.8	7.5	1.1	0.0	0.0	0.0	0.0	0.0
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)