

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: P454881

Luminaire Tested: **GALN-SA6A-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24491 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

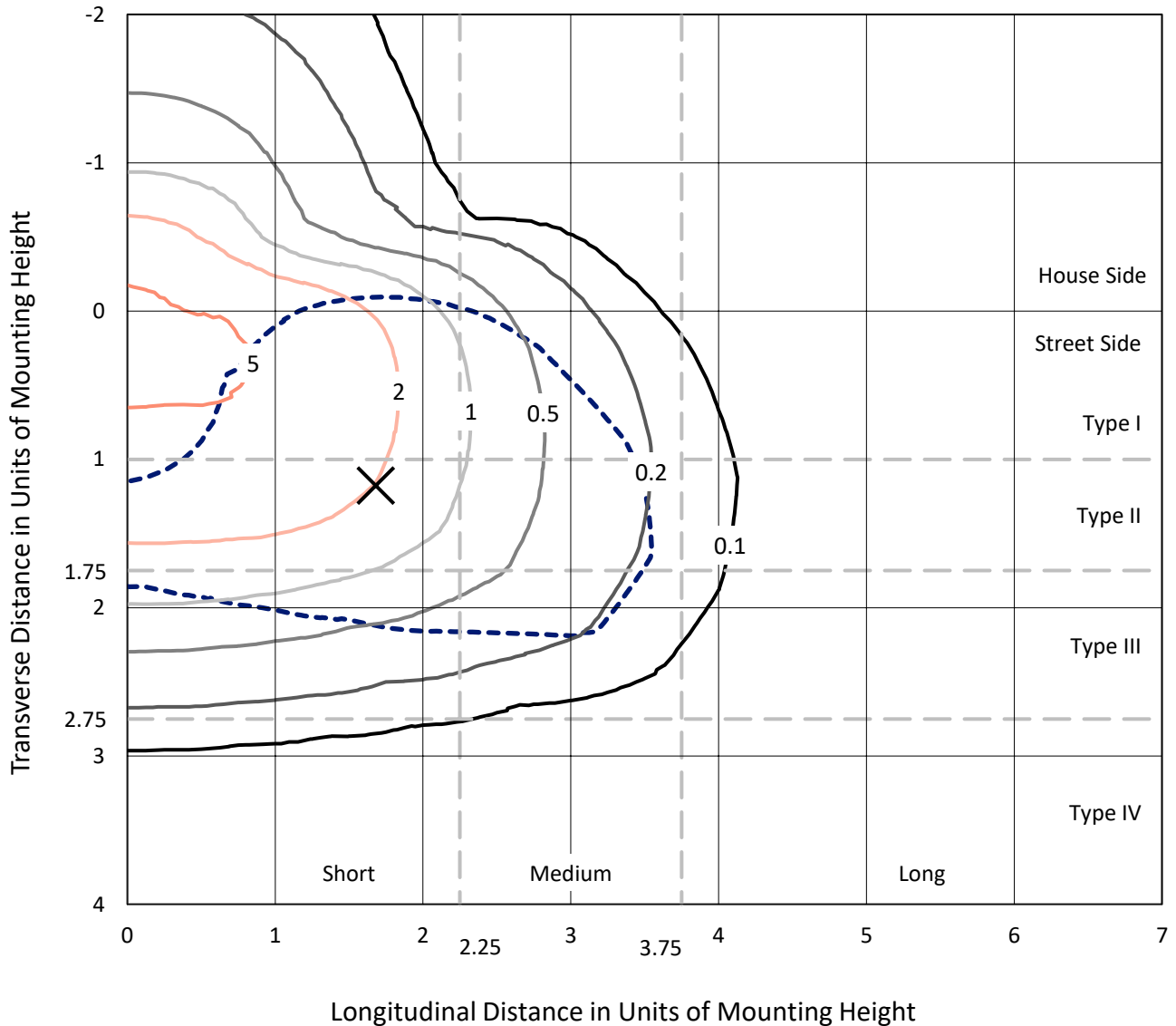
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454881
 CATALOG NUMBER: GALN-SA6A-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

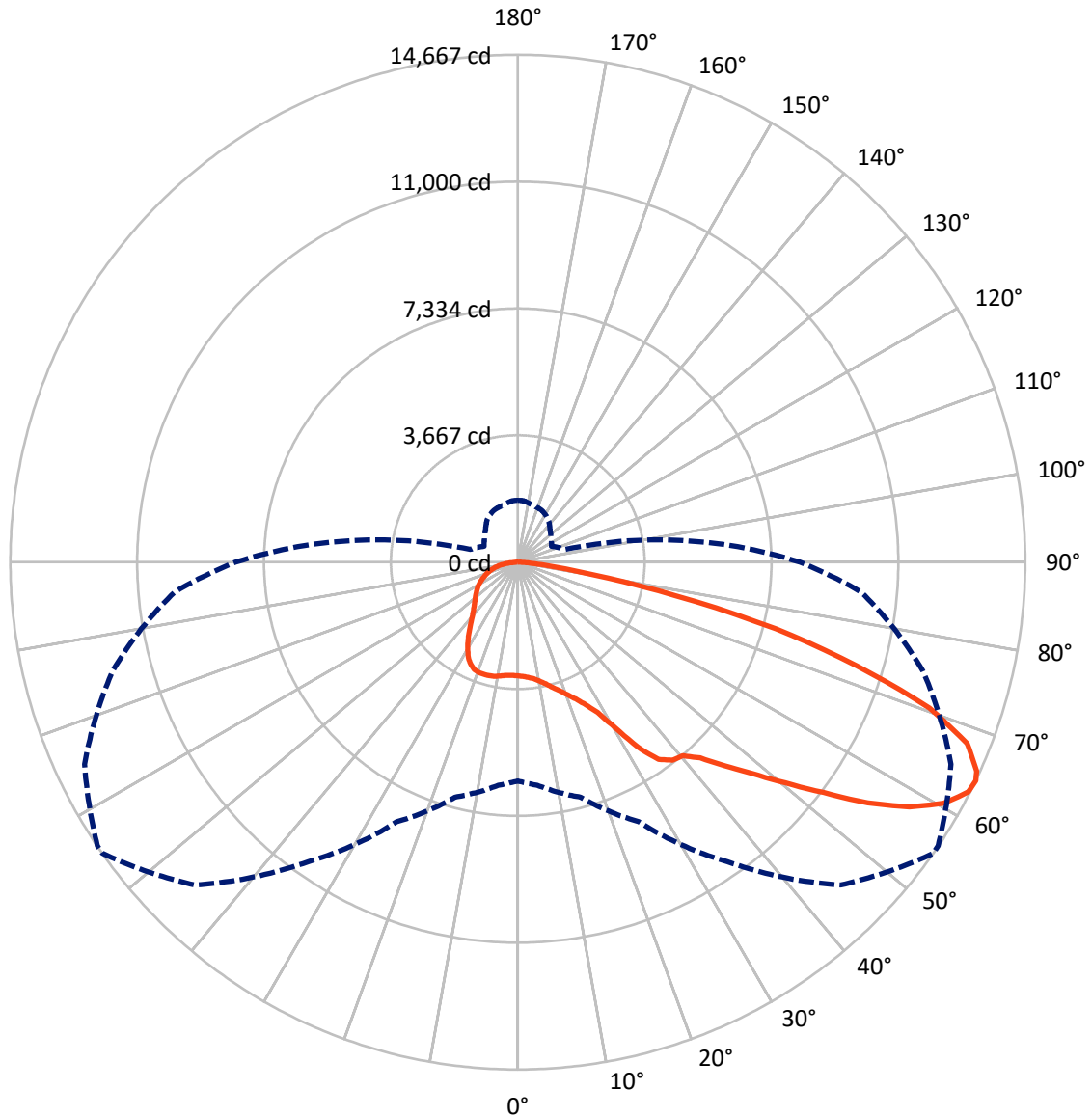
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P454881
CATALOG NUMBER: GALN-SA6A-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



REPORT NUMBER: P454881

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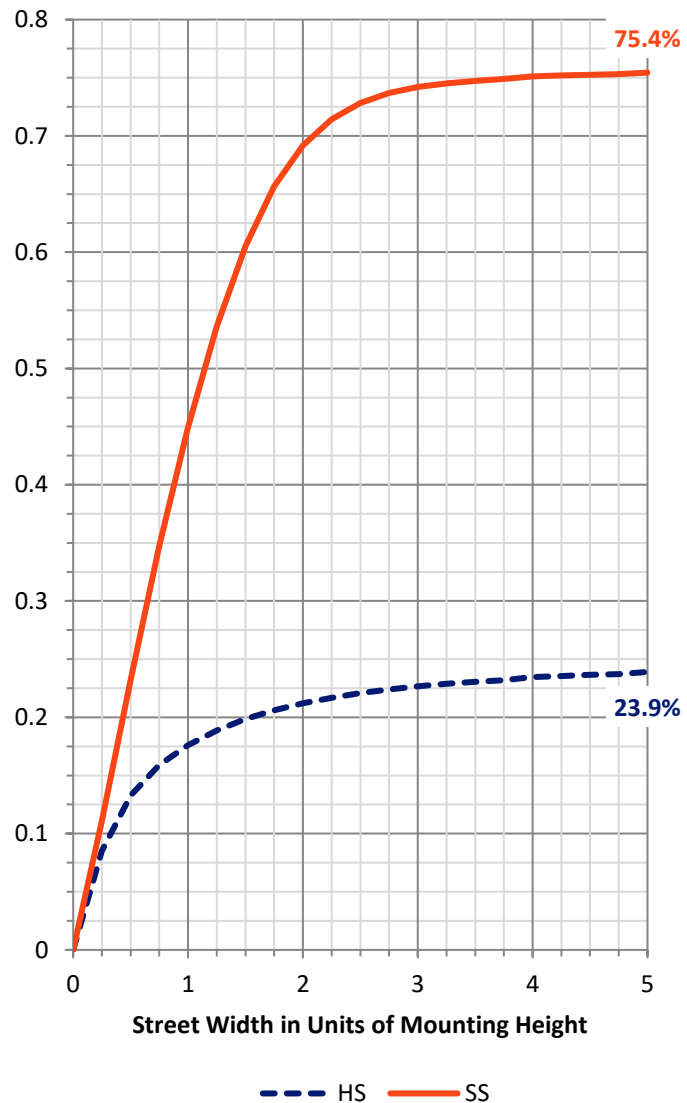
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5949.3	0.0	5949.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	18541.7	0.0	18541.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	24491.0	0.0	24491.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	1.3
10°-20°	1008.5	4.1
20°-30°	1795.5	7.3
30°-40°	2762.5	11.3
40°-50°	3916.1	16.0
50°-60°	5668.5	23.1
60°-70°	5866.3	24.0
70°-80°	2747.2	11.2
80°-90°	406.7	1.7
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°	24491.0	100.0
0°-180°	24491.0	100.0



REPORT NUMBER: P454881

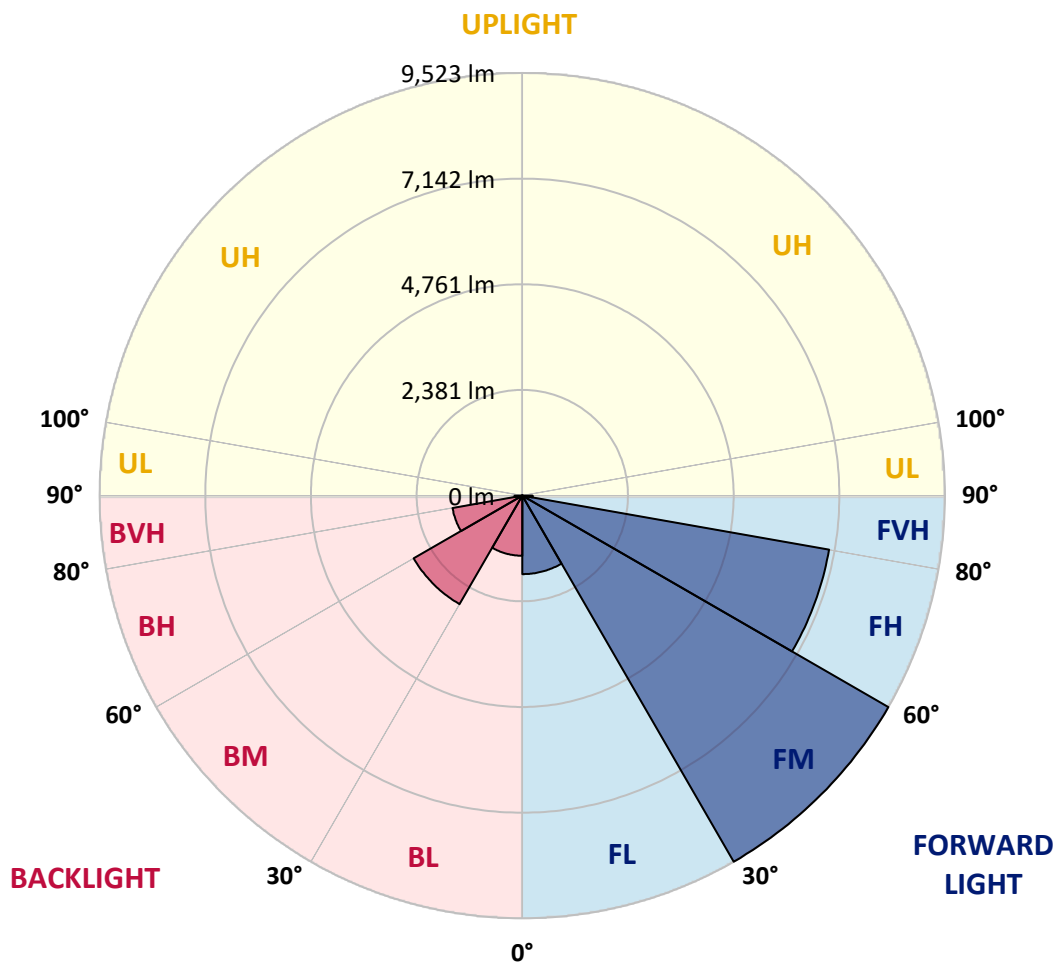
CATALOG NUMBER: GALN-SA6A-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1768.6	7.2			
FM	(30°-60°)	9522.8	38.9			
FH	(60°-80°)	7017.4	28.7			G3/7500
FVH	(80°-90°)	232.9	1.0			G3/500
BL	(0°-30°)	1355.0	5.5	B3/2500		
BM	(30°-60°)	2824.4	11.5	B3/5000		
BH	(60°-80°)	1596.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	173.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P454881

CATALOG NUMBER: GALN-SA6A-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0
2.5°	3322.8	3321.4	3325.5	3321.4	3324.2	3314.6	3310.5	3313.3	3309.2	3302.3	3290.0
5°	3363.8	3362.4	3363.8	3358.3	3361.0	3355.6	3346.0	3348.8	3341.9	3326.9	3309.2
7.5°	3433.4	3427.9	3427.9	3426.6	3421.1	3412.9	3406.1	3403.4	3396.5	3377.4	3350.1
10°	3523.5	3523.5	3524.9	3513.9	3520.8	3505.7	3498.9	3497.6	3474.3	3449.8	3411.5
12.5°	3642.3	3649.1	3645.0	3639.5	3636.8	3631.3	3608.1	3613.6	3587.7	3545.3	3498.9
15°	3789.7	3800.6	3793.8	3791.1	3784.2	3763.8	3754.2	3750.1	3716.0	3654.5	3593.1
17.5°	3984.9	3971.3	3965.8	3959.0	3930.3	3915.3	3898.9	3896.2	3866.1	3793.8	3698.2
20°	4155.6	4174.7	4163.8	4156.9	4128.3	4099.6	4087.3	4083.2	4057.3	3978.1	3825.2
22.5°	4359.0	4363.1	4367.2	4350.8	4337.1	4315.3	4293.4	4286.6	4277.1	4195.2	4008.1
25°	4576.0	4592.4	4578.8	4562.4	4546.0	4544.6	4565.1	4562.4	4558.3	4479.1	4251.1
27.5°	4929.6	4944.6	4948.7	4931.0	4868.2	4873.6	4920.1	4935.1	4997.9	4866.8	4563.7
30°	5128.9	5143.9	5178.1	5245.0	5344.6	5432.0	5543.9	5578.1	5638.1	5391.0	4935.1
32.5°	5251.8	5257.3	5318.7	5442.9	5741.9	6068.2	6372.6	6384.9	6423.1	6076.4	5275.0
35°	5445.6	5449.7	5498.9	5635.4	5986.3	6529.6	7000.6	7015.6	6984.2	6289.3	5433.4
37.5°	5684.5	5695.5	5726.9	5840.2	6259.3	6915.9	7261.3	7250.4	6971.9	6458.6	5713.2
40°	6032.7	6032.7	5995.8	6148.7	6547.3	7137.1	7352.8	7333.7	7259.9	6948.7	6139.1
42.5°	6339.8	6334.4	6421.7	6525.5	6907.7	7478.4	7736.4	7767.8	7889.3	7564.4	6623.8
45°	6739.8	6764.4	6813.5	7001.9	7520.7	8061.3	8394.4	8424.4	8596.4	8289.3	7190.3
47.5°	7143.9	7152.1	7306.4	7557.6	8279.7	8851.7	9124.8	9173.9	9330.9	9137.1	7800.6
50°	7430.6	7508.4	7755.5	8151.4	9062.0	9815.5	10028.5	10087.2	10364.3	10059.9	8511.8
52.5°	7733.7	7810.1	8111.8	8715.2	9960.2	10801.2	11063.3	11102.9	11390.9	10993.7	9239.4
55°	7993.0	8064.0	8406.7	9214.9	10675.6	11807.3	12282.4	12236.0	12373.9	11713.1	9800.5
57.5°	8035.4	8092.7	8524.1	9534.3	11213.5	12670.1	13351.3	13378.6	13218.9	12251.0	10263.3
60°	7707.7	7825.1	8320.7	9500.2	11455.1	13270.8	14148.6	14167.7	13714.5	12526.8	10447.6
62.5°	7127.5	7115.2	7714.5	8951.4	11116.5	13407.3	14618.2	14597.7	13908.3	12394.3	10268.8
64°	6326.2	6473.6	7033.3	8277.0	10570.5	13197.1	14667.3	14656.4	13815.5	12118.6	9964.3
65°	5837.4	5829.3	6382.1	7725.5	10027.1	12880.3	14580.0	14564.9	13621.6	11871.5	9728.2
67.5°	4214.3	4233.4	4779.4	5961.7	8151.4	11642.1	14010.7	13954.7	12857.1	11052.4	8829.9
70°	2552.9	2563.8	2992.4	3954.9	5851.1	9411.4	12629.1	12631.9	11687.2	9829.2	7515.2
72.5°	1344.7	1373.4	1545.4	2245.7	3553.5	6603.3	10245.6	10488.6	10034.0	8388.9	5937.1
75°	748.1	752.2	873.7	1107.1	1812.9	3695.5	7700.9	7770.5	7943.9	6752.1	4390.4
77.5°	570.6	578.8	617.1	715.3	987.0	1713.3	4660.7	5010.2	5598.5	4760.3	2505.1
80°	462.8	471.0	503.7	562.4	656.6	812.3	2165.2	2353.5	2996.5	2113.3	977.5
82.5°	360.4	354.9	397.3	435.5	477.8	480.5	888.7	982.9	1220.5	909.2	423.2
85°	267.6	267.6	301.7	293.5	308.5	281.2	391.8	432.8	488.7	386.3	196.6
87.5°	106.5	117.4	197.9	177.5	137.9	110.6	144.7	152.9	169.3	151.5	81.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454881
 CATALOG NUMBER: GALN-SA6A-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0	3286.0
2.5°	3291.4	3295.5	3286.0	3279.1	3276.4	3272.3	3268.2	3269.6	3275.0	3280.5	3279.1
5°	3307.8	3309.2	3292.8	3284.6	3279.1	3273.7	3273.7	3277.8	3288.7	3296.9	3296.9
7.5°	3348.8	3348.8	3325.5	3310.5	3302.3	3292.8	3290.0	3291.4	3299.6	3310.5	3311.9
10°	3412.9	3407.5	3377.4	3354.2	3339.2	3316.0	3295.5	3284.6	3288.7	3295.5	3295.5
12.5°	3490.7	3475.7	3437.5	3406.1	3369.2	3325.5	3283.2	3261.4	3260.0	3266.8	3264.1
15°	3574.0	3557.6	3504.4	3447.0	3382.9	3318.7	3268.2	3236.8	3212.2	3205.4	3220.4
17.5°	3670.9	3636.8	3563.1	3483.9	3388.3	3305.1	3225.9	3161.7	3118.0	3105.8	3109.8
20°	3788.3	3743.3	3643.6	3519.4	3384.2	3255.9	3133.1	3047.0	2976.1	2954.2	2956.9
22.5°	3950.8	3873.0	3726.9	3537.1	3350.1	3163.1	2992.4	2880.5	2794.5	2760.4	2780.8
25°	4135.1	4050.4	3806.1	3533.0	3261.4	3014.3	2825.9	2679.8	2602.0	2551.5	2562.4
27.5°	4389.0	4238.8	3890.7	3496.2	3134.4	2832.7	2614.3	2476.4	2405.4	2379.5	2391.8
30°	4713.9	4483.2	3982.2	3396.5	2933.7	2603.4	2401.3	2311.2	2268.9	2236.1	2247.1
32.5°	4948.7	4655.2	4002.7	3228.6	2716.7	2394.5	2256.6	2189.7	2143.3	2111.9	2118.7
35°	5116.6	4801.3	3993.1	3022.5	2490.1	2222.5	2141.9	2087.3	2012.3	1944.0	1931.7
37.5°	5341.9	4984.2	3923.5	2797.2	2266.2	2106.5	2049.1	1948.1	1840.2	1748.8	1744.7
40°	5687.3	5198.5	3774.7	2532.4	2075.1	2020.4	1950.8	1819.8	1703.7	1630.0	1624.5
42.5°	6043.6	5396.5	3572.6	2253.9	1918.1	1930.3	1845.7	1716.0	1645.0	1597.2	1591.8
45°	6479.1	5610.8	3354.2	2012.3	1802.0	1845.7	1754.2	1679.2	1636.8	1605.4	1597.2
47.5°	6950.1	5830.6	3108.5	1795.2	1703.7	1767.9	1716.0	1681.9	1658.7	1636.8	1627.3
50°	7457.9	6076.4	2877.8	1620.5	1615.0	1687.3	1711.9	1699.6	1686.0	1679.2	1671.0
52.5°	8014.9	6327.5	2683.9	1497.6	1537.2	1630.0	1713.3	1722.8	1722.8	1718.7	1713.3
55°	8391.7	6502.3	2487.3	1397.9	1458.0	1583.6	1710.6	1747.4	1761.1	1755.6	1750.1
57.5°	8670.2	6597.8	2240.2	1311.9	1391.1	1538.5	1695.5	1750.1	1763.8	1770.6	1767.9
60°	8727.5	6509.1	1916.7	1221.8	1318.7	1473.0	1640.9	1709.2	1726.9	1769.3	1773.3
62.5°	8469.5	6236.1	1594.5	1133.1	1230.0	1373.4	1567.2	1662.8	1698.3	1763.8	1770.6
64°	8152.8	5930.3	1415.7	1077.1	1172.7	1317.4	1530.4	1650.5	1696.9	1784.3	1789.7
65°	7920.7	5707.8	1303.7	1041.6	1135.8	1280.5	1509.9	1654.6	1709.2	1815.7	1823.9
67.5°	7066.1	4941.9	1078.5	958.3	1048.4	1217.7	1514.0	1688.7	1706.5	1828.0	1826.6
70°	5847.0	3934.4	903.7	881.9	963.8	1167.2	1497.6	1634.1	1635.5	1716.0	1696.9
72.5°	4378.1	2907.8	783.6	802.7	869.6	1047.1	1414.3	1560.4	1537.2	1548.1	1529.0
75°	3007.5	1923.5	674.4	718.1	771.3	925.6	1296.9	1417.0	1380.2	1366.5	1352.9
77.5°	1605.4	1063.5	561.1	634.8	670.3	800.0	1131.7	1247.8	1209.5	1156.3	1138.5
80°	649.8	501.0	451.9	525.6	546.1	644.4	942.0	1014.3	985.6	892.8	862.8
82.5°	326.3	300.3	354.9	413.6	415.0	460.1	700.3	768.6	704.4	591.1	565.2
85°	170.6	176.1	244.4	290.8	256.7	248.5	420.5	465.5	427.3	371.3	334.5
87.5°	61.4	71.0	128.3	127.0	90.1	47.8	92.8	45.1	24.6	15.0	19.1
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)