

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: P383013

Luminaire Tested: **GLEON-SA3C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20566.7 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

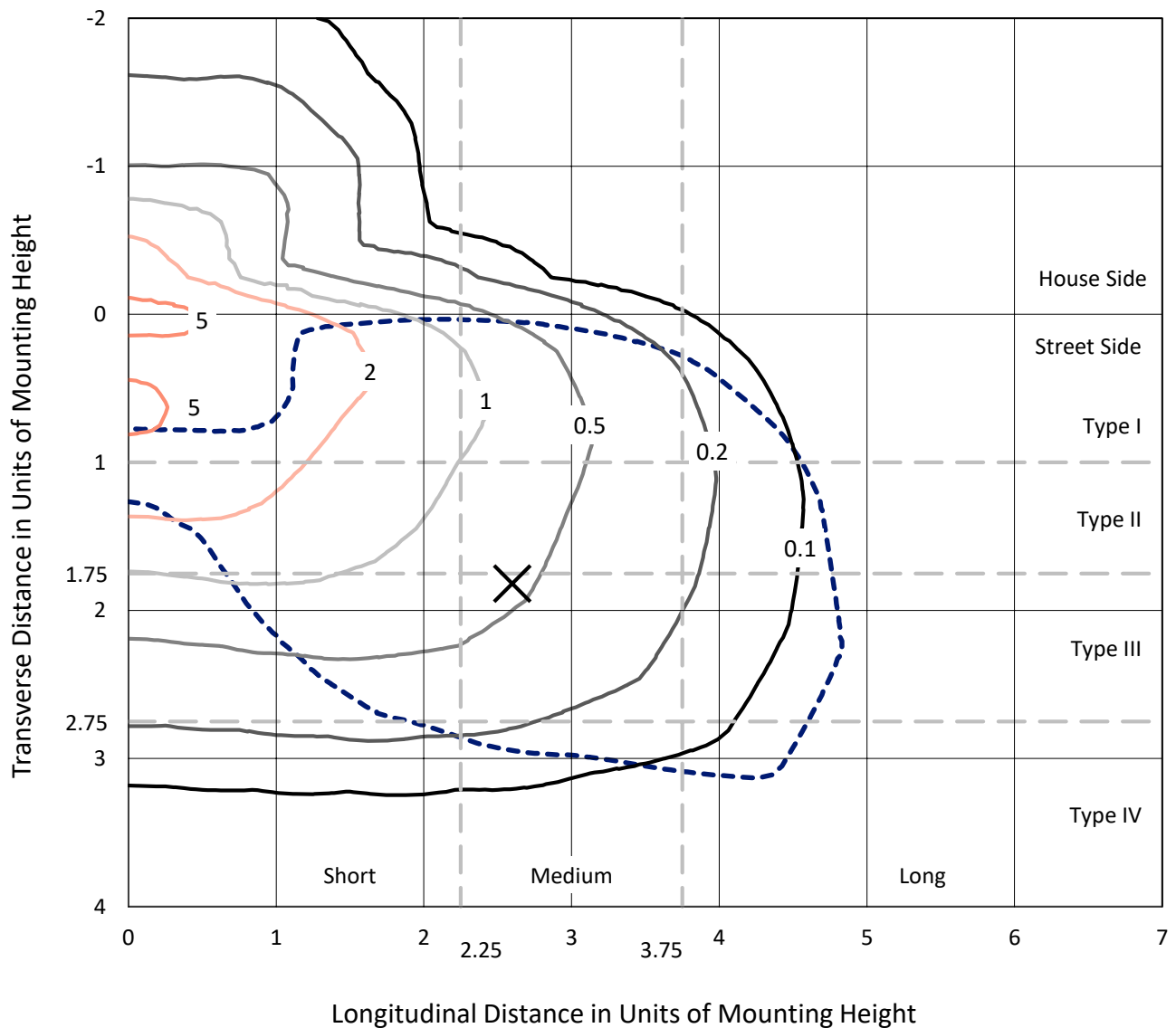
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

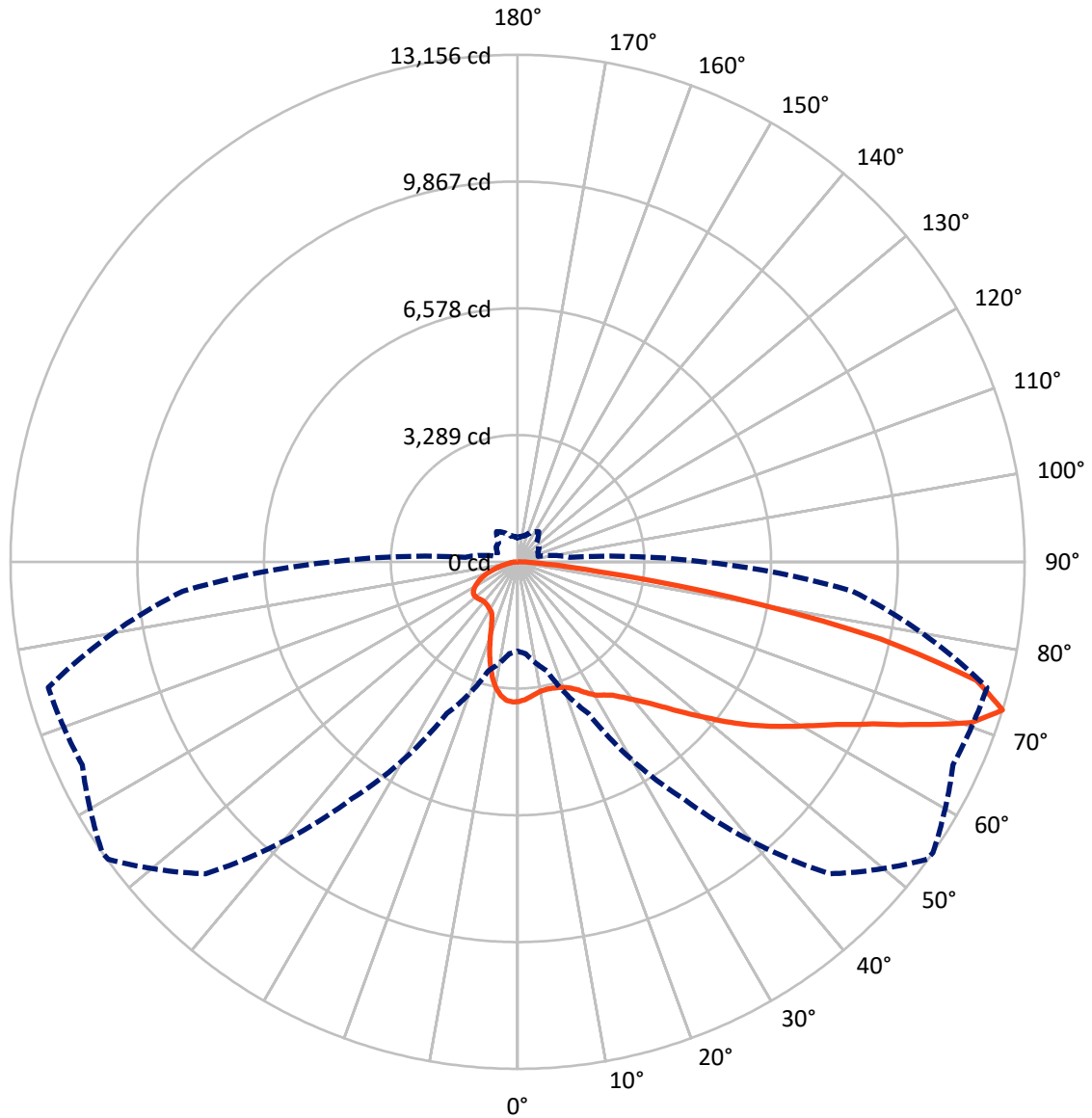
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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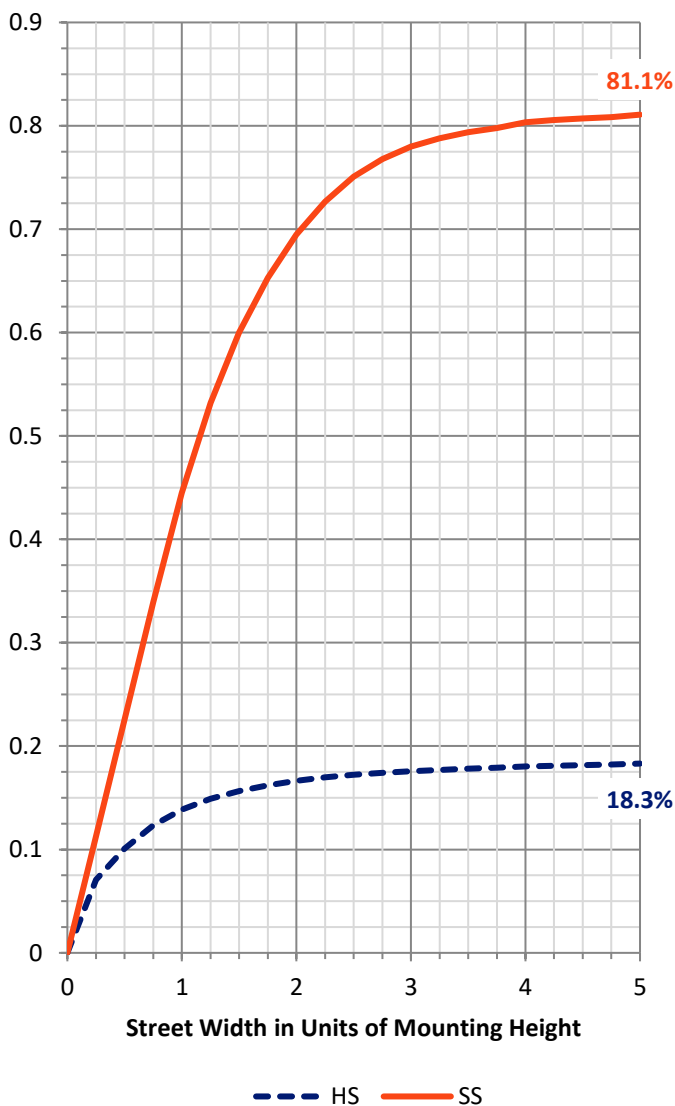
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3822.7	0.0	3822.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16744.0	0.0	16744.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	20566.7	0.0	20566.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	1.6
10°-20°	873.9	4.2
20°-30°	1440.9	7.0
30°-40°	2131.4	10.4
40°-50°	2975.0	14.5
50°-60°	3873.5	18.8
60°-70°	4760.5	23.1
70°-80°	3731.6	18.1
80°-90°	451.6	2.2
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°	20566.7	100.0
0°-180°	20566.7	100.0

Coefficient of Utilization

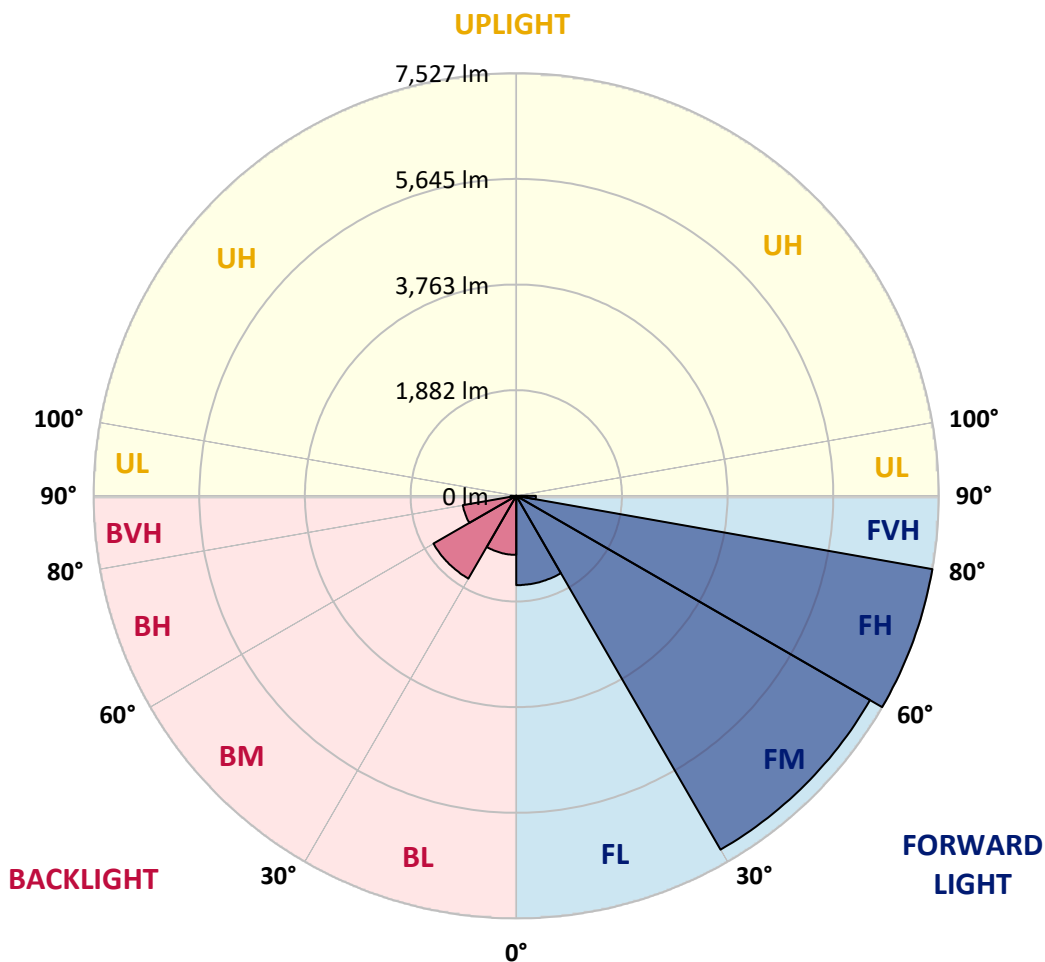


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1591.3	7.7			
FM (30°-60°)	7276.9	35.4			
FH (60°-80°)	7526.7	36.6			G4/12000
FVH (80°-90°)	349.1	1.7			G3/500
BL (0°-30°)	1051.8	5.1	B3/2500		
BM (30°-60°)	1703.1	8.3	B2/2500		
BH (60°-80°)	965.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	102.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5
2.5°	3509.4	3501.1	3511.6	3526.1	3542.1	3563.6	3576.1	3581.7	3603.2	3611.5	3629.6
5°	3346.9	3342.7	3360.1	3385.1	3420.5	3470.6	3510.8	3518.5	3575.5	3615.7	3652.5
7.5°	3228.7	3228.7	3249.0	3278.8	3318.4	3385.8	3442.7	3453.2	3549.8	3636.6	3704.7
10°	3135.0	3138.5	3162.1	3197.5	3244.1	3315.7	3391.3	3403.1	3542.8	3685.2	3793.5
12.5°	3072.5	3080.8	3102.3	3134.3	3191.9	3278.8	3374.6	3390.6	3557.4	3754.6	3900.5
15°	3112.1	3126.0	3128.0	3141.3	3173.2	3267.7	3384.4	3401.1	3588.6	3825.5	4022.0
17.5°	3285.8	3290.6	3269.1	3241.3	3226.0	3286.4	3413.6	3430.9	3626.1	3895.6	4138.8
20°	3549.8	3547.0	3500.4	3425.4	3347.6	3357.3	3461.5	3479.5	3676.8	3957.5	4255.5
22.5°	3883.2	3873.5	3801.9	3663.7	3530.9	3475.4	3545.6	3560.8	3753.3	4045.7	4380.5
25°	4287.4	4265.9	4171.5	3986.0	3790.7	3647.7	3672.0	3686.6	3864.4	4144.4	4495.2
27.5°	4714.0	4692.5	4572.2	4347.9	4088.1	3865.1	3846.4	3858.8	3990.8	4217.3	4579.9
30°	5159.9	5137.0	5027.3	4775.8	4403.4	4090.1	4008.9	4013.8	4079.7	4256.9	4649.4
32.5°	5608.0	5586.5	5463.5	5171.8	4746.0	4331.9	4126.3	4120.0	4133.3	4297.9	4727.9
35°	6062.3	6070.6	5926.9	5603.8	5125.2	4600.7	4265.2	4252.0	4222.9	4381.9	4839.0
37.5°	6548.6	6543.0	6356.9	6019.3	5521.8	4892.5	4464.6	4462.5	4361.8	4541.0	5013.4
40°	6873.7	6877.2	6764.0	6444.4	5922.7	5215.5	4720.2	4715.4	4583.4	4779.3	5241.9
42.5°	7000.8	7023.7	7052.9	6850.0	6342.3	5589.9	5025.1	5018.2	4892.5	5121.1	5510.8
45°	7009.8	7055.7	7236.3	7210.6	6767.4	6018.5	5414.9	5395.4	5305.2	5575.3	5831.7
47.5°	6932.0	6979.2	7279.4	7425.3	7147.4	6470.8	5870.6	5855.3	5777.5	6143.6	6179.0
50°	6761.8	6807.0	7190.4	7530.2	7460.0	6905.7	6395.7	6355.5	6313.8	6800.0	6576.4
52.5°	6443.0	6529.8	7071.7	7555.1	7646.8	7291.9	6948.0	6921.6	6944.5	7492.6	6974.4
55°	5687.9	5785.2	6765.3	7534.3	7785.0	7616.2	7500.3	7498.9	7617.6	8219.2	7401.6
57.5°	5264.8	5333.6	6141.5	7498.9	7949.0	7938.6	8047.0	8060.1	8291.5	9010.5	7848.9
60°	5025.9	5098.1	5825.4	7367.6	8203.3	8355.4	8604.8	8631.2	8976.4	9886.4	8387.4
62.5°	4808.5	4887.6	5629.5	7100.2	8502.7	8951.4	9273.0	9296.7	9701.6	10786.7	8907.6
65°	4436.8	4526.4	5342.6	6924.4	8775.0	9728.7	10122.6	10138.6	10534.6	11730.0	9305.7
67.5°	3911.7	3993.6	4801.5	6536.1	8976.4	10672.7	11252.2	11261.2	11360.5	12396.2	9509.2
70°	3298.2	3329.5	4030.4	5734.4	8738.2	11555.7	12490.0	12492.1	12113.5	12822.8	9475.9
72.5°	2317.4	2391.0	2925.9	4340.9	7509.3	11448.1	13132.6	13156.2	12463.6	12607.4	8718.7
75°	1421.3	1499.0	1835.3	2630.7	4764.0	9003.5	12133.7	12297.6	11807.2	11241.0	7122.3
77.5°	950.3	979.4	1197.6	1533.8	2158.3	5180.1	9328.6	9637.0	9808.6	8197.7	4554.9
80°	530.1	585.6	794.0	953.1	960.1	2058.3	5593.4	5665.7	5457.3	3264.2	1405.3
82.5°	280.7	311.2	530.1	559.9	523.8	689.1	2084.7	2086.8	1743.6	875.3	417.5
85°	217.4	243.1	363.3	341.8	267.4	305.6	687.8	725.2	593.2	358.5	136.2
87.5°	108.3	134.8	246.6	216.8	104.9	87.6	245.9	262.6	234.1	140.3	49.3
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°	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5	3627.5
2.5°	3636.6	3642.8	3650.5	3642.1	3639.4	3628.2	3609.5	3605.3	3595.6	3596.2	3601.8
5°	3668.5	3679.0	3674.8	3642.8	3604.6	3551.2	3495.5	3448.3	3417.0	3415.0	3412.9
7.5°	3729.6	3736.6	3703.9	3612.9	3506.0	3382.3	3265.6	3163.5	3101.7	3086.4	3082.9
10°	3825.5	3824.1	3734.5	3551.2	3337.8	3117.0	2929.3	2787.7	2705.0	2680.7	2674.5
12.5°	3932.4	3916.5	3744.9	3438.6	3100.3	2793.9	2556.4	2398.6	2312.6	2284.7	2277.8
15°	4042.9	4003.3	3719.2	3270.5	2808.5	2445.9	2196.5	2050.6	2004.1	1988.9	1986.1
17.5°	4145.8	4069.4	3645.6	3042.6	2475.8	2099.2	1904.7	1846.4	1857.5	1877.6	1878.4
20°	4246.5	4113.8	3527.5	2755.1	2125.0	1813.7	1747.8	1790.8	1843.6	1884.6	1890.2
22.5°	4345.8	4145.0	3375.4	2423.0	1811.0	1653.3	1699.8	1778.3	1838.8	1883.2	1890.9
25°	4429.1	4152.7	3165.6	2068.7	1592.9	1592.9	1676.9	1751.2	1811.0	1854.7	1862.3
27.5°	4459.7	4101.3	2869.6	1740.8	1483.1	1565.1	1644.9	1706.8	1757.5	1804.0	1812.4
30°	4471.5	4006.1	2527.8	1477.5	1437.9	1535.2	1601.9	1654.7	1702.6	1746.4	1754.0
32.5°	4473.7	3891.5	2165.3	1328.2	1406.7	1504.0	1548.4	1594.9	1646.3	1663.7	1666.5
35°	4486.8	3756.0	1783.2	1251.8	1377.5	1474.7	1510.2	1543.6	1460.2	1466.4	1472.0
37.5°	4525.0	3622.0	1463.6	1208.7	1358.8	1459.5	1501.8	1381.0	1315.7	1300.4	1298.3
40°	4596.5	3478.9	1226.8	1173.9	1351.8	1467.1	1448.4	1289.3	1176.7	1092.7	1080.2
42.5°	4695.9	3324.7	1075.4	1151.0	1356.7	1504.0	1374.0	1201.0	1014.2	960.1	953.1
45°	4807.7	3162.8	993.4	1135.1	1373.4	1532.4	1358.8	1083.7	938.5	897.5	894.0
47.5°	4916.1	2964.8	951.0	1128.1	1396.3	1509.5	1294.2	1047.5	902.4	880.9	882.9
50°	5040.5	2786.3	925.3	1120.5	1416.4	1494.9	1221.3	1028.8	888.5	914.9	942.6
52.5°	5145.4	2601.5	902.4	1105.2	1424.1	1469.2	1202.4	1032.2	888.5	939.2	965.5
55°	5269.7	2461.9	875.9	1073.2	1409.4	1396.3	1189.3	1053.1	898.9	866.9	869.7
57.5°	5430.2	2416.1	846.8	1023.2	1360.8	1290.0	1183.0	1073.2	892.6	872.5	879.5
60°	5652.4	2464.7	834.9	957.9	1285.2	1206.6	1183.7	1062.8	848.9	814.2	814.8
62.5°	5864.4	2518.8	834.3	916.9	1192.0	1132.3	1167.7	1028.8	826.7	806.5	814.2
65°	5933.8	2463.9	800.9	871.1	1087.1	1043.4	1138.5	992.7	810.0	779.4	778.0
67.5°	5840.7	2293.7	733.6	796.8	966.9	939.8	1100.3	949.6	783.6	758.6	754.4
70°	5564.2	1913.8	650.2	698.8	830.1	823.2	1039.9	899.6	748.1	726.6	708.5
72.5°	4820.3	1363.6	548.1	581.5	675.9	698.1	956.5	834.3	698.1	651.6	623.8
75°	3958.9	1009.3	450.1	457.1	513.4	573.8	841.9	757.9	639.1	559.9	538.3
77.5°	2424.4	617.5	358.5	361.3	368.1	457.8	693.3	672.4	564.1	466.8	451.5
80°	784.9	336.9	259.1	272.3	251.4	335.5	536.3	572.4	484.2	390.4	373.7
82.5°	298.7	196.6	175.0	184.1	174.4	225.1	391.1	458.5	396.7	320.9	261.2
85°	144.5	111.1	103.5	116.0	107.7	115.3	250.1	337.6	300.8	209.1	194.5
87.5°	51.4	49.3	39.6	53.5	45.8	41.0	76.4	170.2	198.7	143.8	128.6
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)