

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: P383181

Luminaire Tested: **GLEON-SA5A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383181
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-SA5A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22183.9 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

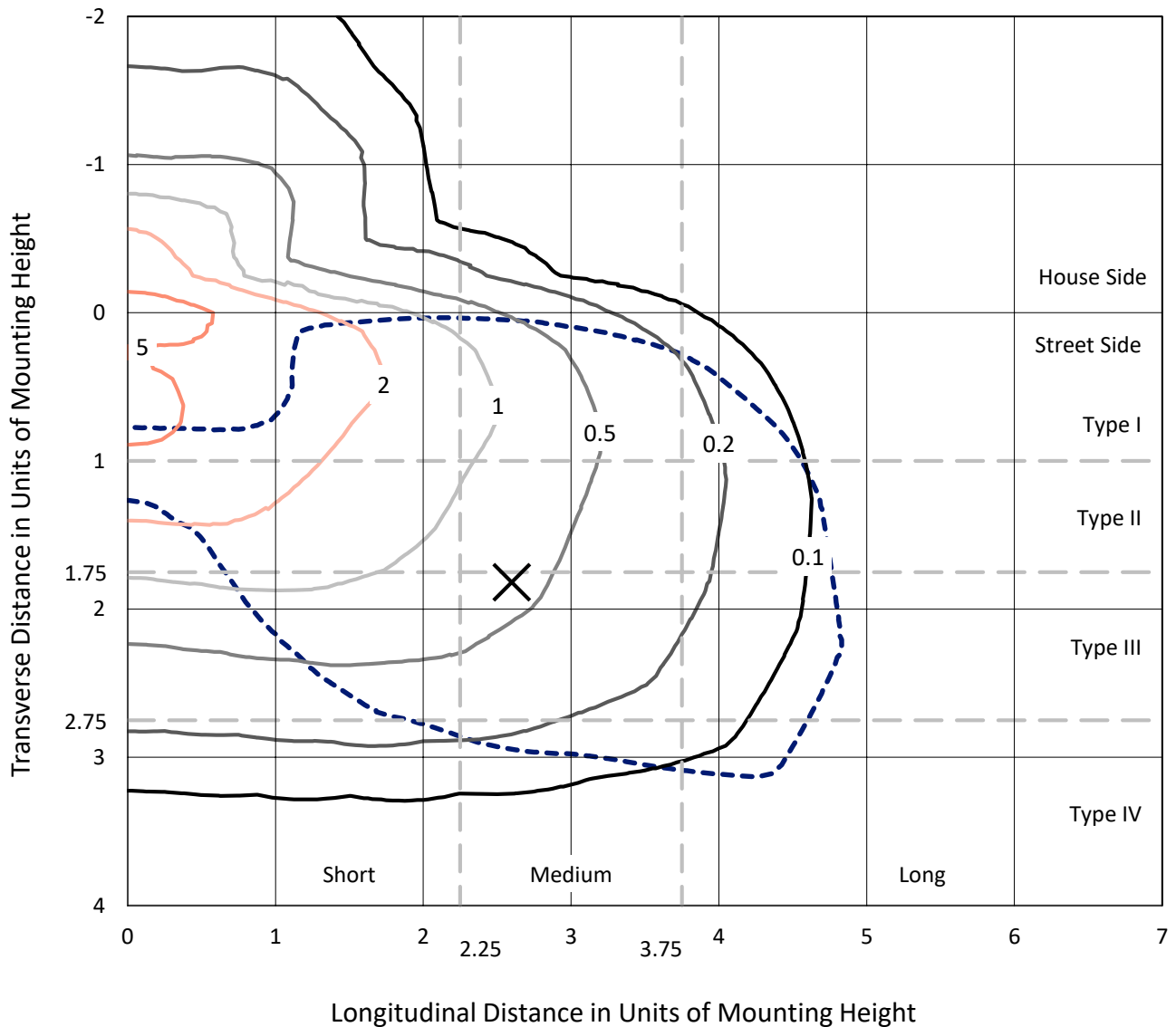
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

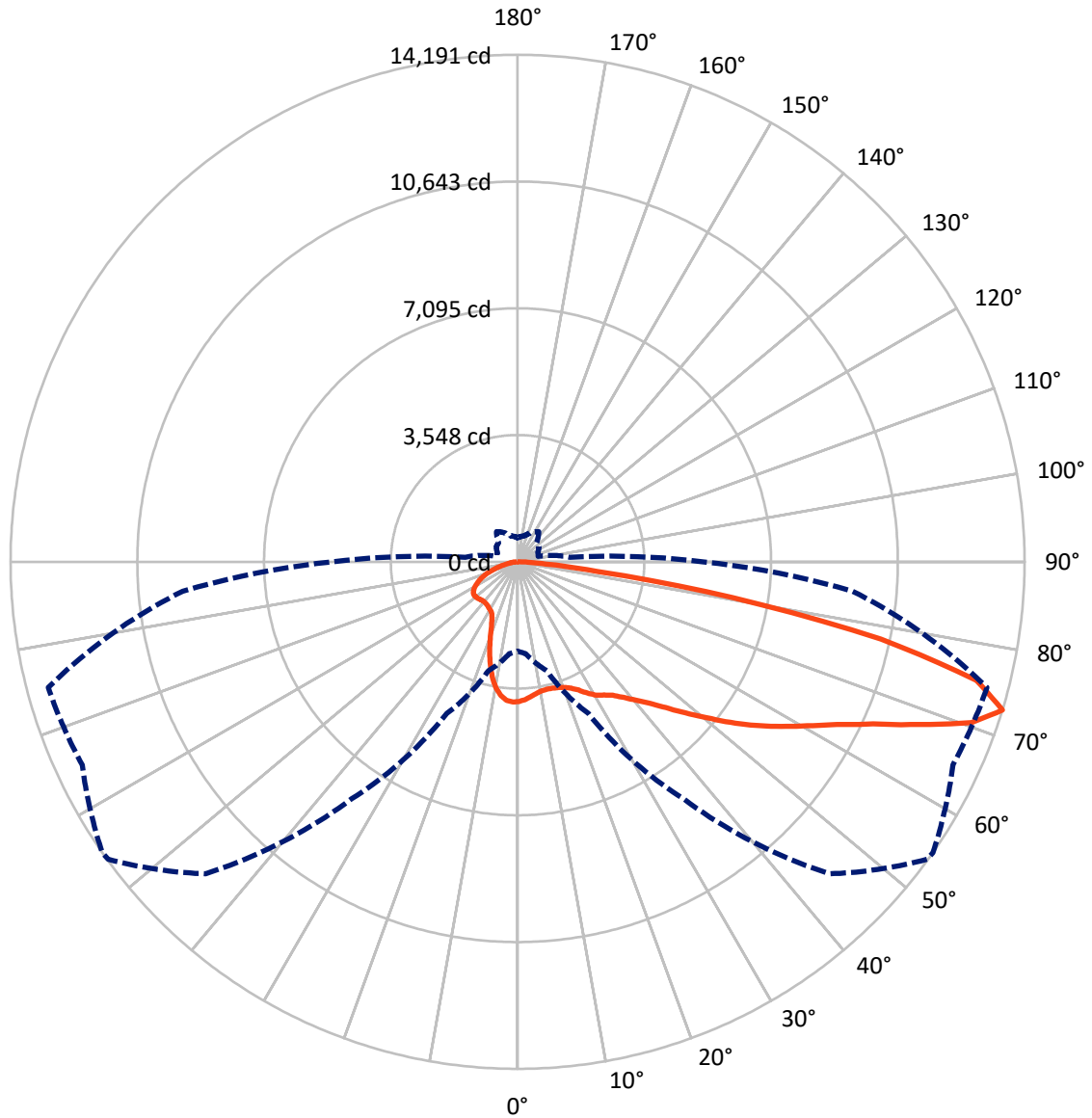
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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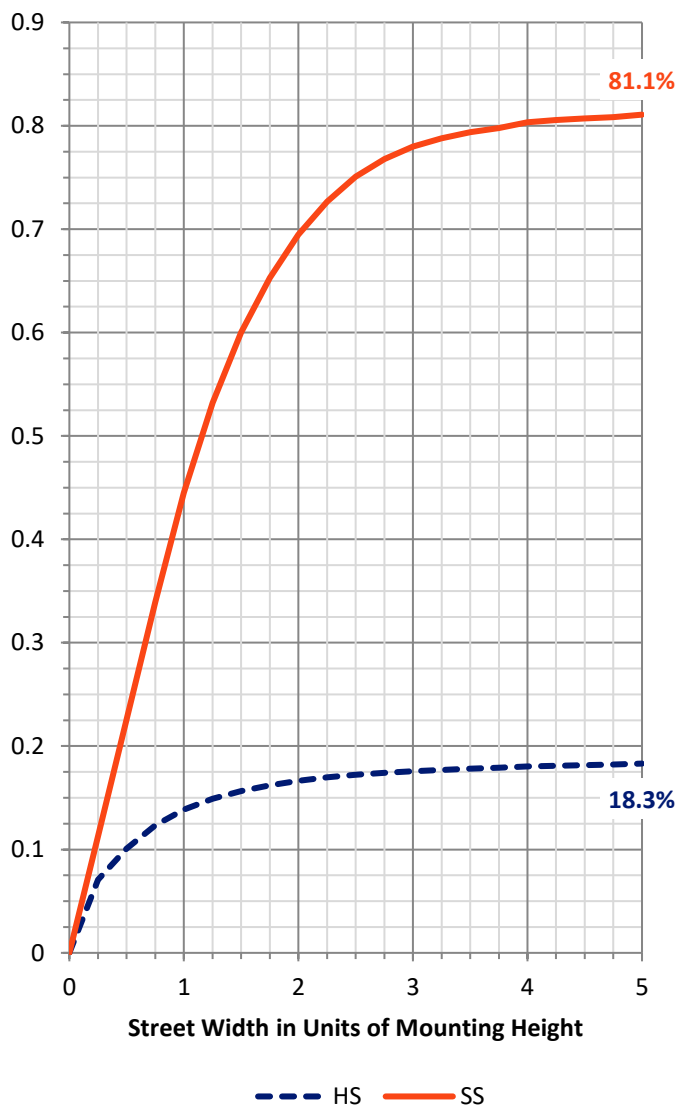
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4123.3	0.0	4123.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18060.6	0.0	18060.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	22183.9	0.0	22183.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	1.6
10°-20°	942.6	4.2
20°-30°	1554.2	7.0
30°-40°	2299.0	10.4
40°-50°	3208.9	14.5
50°-60°	4178.1	18.8
60°-70°	5134.8	23.1
70°-80°	4025.1	18.1
80°-90°	487.1	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°	22183.9	100.0
0°-180°	22183.9	100.0

Coefficient of Utilization

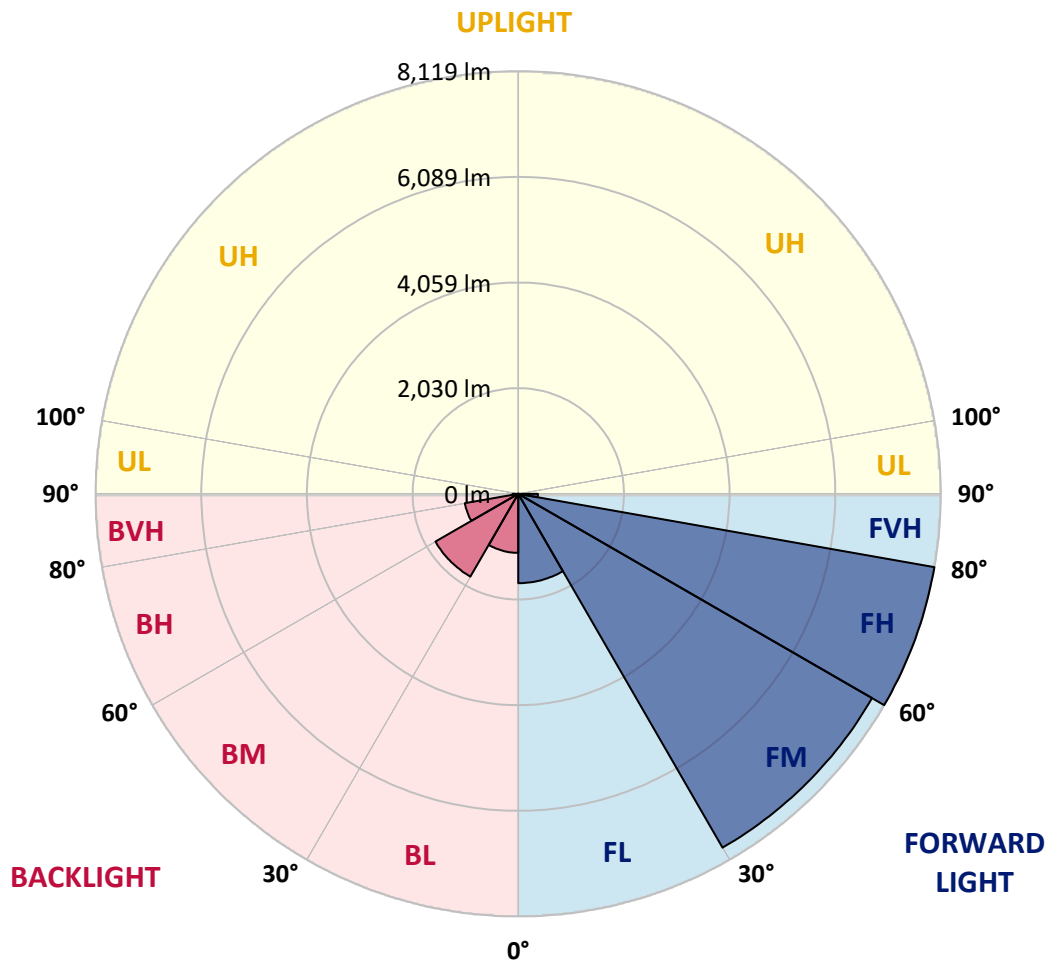


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.4	7.7			
FM (30°-60°)	7849.1	35.4			
FH (60°-80°)	8118.5	36.6			G4/12000
FVH (80°-90°)	376.6	1.7			G3/500
BL (0°-30°)	1134.5	5.1	B3/2500		
BM (30°-60°)	1837.0	8.3	B2/2500		
BH (60°-80°)	1041.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	110.5	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°	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8
2.5°	3785.3	3776.4	3787.7	3803.3	3820.6	3843.8	3857.4	3863.3	3886.5	3895.5	3915.0
5°	3610.0	3605.6	3624.3	3651.3	3689.5	3743.4	3786.8	3795.1	3856.6	3900.0	3939.7
7.5°	3482.7	3482.7	3504.4	3536.6	3579.3	3652.0	3713.4	3724.7	3828.8	3922.5	3996.0
10°	3381.5	3385.2	3410.8	3449.0	3499.2	3576.3	3658.0	3670.8	3821.3	3974.9	4091.8
12.5°	3314.1	3323.1	3346.3	3380.8	3443.0	3536.6	3640.0	3657.3	3837.0	4049.9	4207.2
15°	3356.8	3371.7	3374.1	3388.2	3422.7	3524.6	3650.5	3668.5	3870.8	4126.3	4338.3
17.5°	3544.1	3549.4	3526.1	3496.2	3479.7	3544.8	3681.9	3700.7	3911.3	4202.0	4464.3
20°	3828.8	3825.9	3775.7	3694.7	3610.8	3621.3	3733.6	3753.2	3966.0	4268.6	4590.1
22.5°	4188.5	4178.0	4100.9	3951.7	3808.6	3748.6	3824.4	3840.9	4048.4	4363.8	4725.0
25°	4624.6	4601.4	4499.5	4299.4	4088.8	3934.5	3960.8	3976.4	4168.3	4470.2	4848.6
27.5°	5084.7	5061.4	4931.8	4689.8	4409.6	4169.0	4148.7	4162.2	4304.6	4548.9	4940.0
30°	5565.7	5540.9	5422.5	5151.4	4749.7	4411.8	4324.2	4329.4	4400.5	4591.6	5015.0
32.5°	6049.0	6025.7	5893.2	5578.4	5119.1	4672.5	4450.7	4444.0	4458.2	4635.8	5099.7
35°	6539.0	6548.0	6392.9	6044.4	5528.2	4962.5	4600.6	4586.4	4554.9	4726.5	5219.6
37.5°	7063.5	7057.5	6856.7	6492.5	5956.0	5277.2	4815.6	4813.4	4704.8	4898.1	5407.5
40°	7414.2	7417.9	7295.8	6951.1	6388.4	5625.6	5091.4	5086.2	4943.8	5155.1	5654.1
42.5°	7551.3	7576.0	7607.5	7388.7	6840.9	6029.4	5420.3	5412.9	5277.2	5523.7	5944.1
45°	7561.0	7610.5	7805.3	7777.6	7299.5	6491.8	5840.7	5819.7	5722.3	6013.8	6290.3
47.5°	7477.1	7528.0	7851.7	8009.1	7709.4	6979.6	6332.2	6315.7	6231.8	6626.7	6664.9
50°	7293.6	7342.3	7755.9	8122.3	8046.5	7448.7	6898.7	6855.2	6810.3	7334.7	7093.5
52.5°	6949.6	7043.2	7627.7	8149.2	8248.1	7865.2	7494.3	7465.9	7490.6	8081.7	7522.8
55°	6135.2	6240.1	7297.3	8126.7	8397.2	8215.1	8090.0	8088.5	8216.6	8865.5	7983.6
57.5°	5678.8	5753.0	6624.4	8088.5	8574.1	8562.8	8679.7	8693.9	8943.4	9718.9	8466.2
60°	5421.0	5499.0	6283.5	7946.9	8848.3	9012.4	9281.4	9309.9	9682.2	10663.8	9046.8
62.5°	5186.6	5272.0	6072.2	7658.4	9171.3	9655.3	10002.2	10027.6	10464.4	11634.8	9608.1
65°	4785.6	4882.3	5762.7	7468.9	9465.0	10493.7	10918.6	10935.8	11362.9	12652.4	10037.4
67.5°	4219.3	4307.7	5179.0	7050.0	9682.2	11512.0	12136.9	12146.6	12253.8	13371.0	10256.9
70°	3557.6	3591.3	4347.3	6185.3	9425.2	12464.3	13472.1	13474.4	13066.0	13831.1	10220.9
72.5°	2499.6	2579.0	3156.0	4682.2	8099.7	12348.2	14165.2	14190.6	13443.6	13598.7	9404.3
75°	1533.0	1617.0	1979.6	2837.5	5138.6	9711.5	13087.8	13264.6	12735.6	12124.9	7682.4
77.5°	1025.0	1056.5	1291.8	1654.4	2328.0	5587.4	10062.1	10394.8	10579.9	8842.2	4913.1
80°	571.7	631.7	856.5	1028.1	1035.5	2220.2	6033.3	6111.1	5886.4	3520.9	1515.8
82.5°	302.8	335.6	571.7	603.9	565.0	743.3	2248.6	2250.8	1880.7	944.1	450.3
85°	234.6	262.2	391.9	368.6	288.5	329.7	741.8	782.2	639.9	386.6	146.9
87.5°	116.9	145.3	266.0	233.8	113.2	94.4	265.2	283.2	252.5	151.4	53.2
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°	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8
2.5°	3922.5	3929.3	3937.5	3928.5	3925.5	3913.5	3893.3	3888.7	3878.3	3879.1	3885.0
5°	3956.9	3968.2	3963.7	3929.3	3888.0	3830.3	3770.4	3719.5	3685.8	3683.4	3681.2
7.5°	4022.9	4030.4	3995.2	3897.0	3781.6	3648.2	3522.4	3412.3	3345.6	3329.1	3325.3
10°	4126.3	4124.8	4028.1	3830.3	3600.3	3362.0	3159.7	3006.8	2917.7	2891.5	2884.7
12.5°	4241.7	4224.5	4039.4	3709.0	3344.1	3013.6	2757.4	2587.3	2494.4	2464.4	2456.9
15°	4360.9	4318.1	4011.7	3527.6	3029.4	2638.2	2369.2	2211.9	2161.7	2145.2	2142.2
17.5°	4471.7	4389.3	3932.2	3281.8	2670.5	2264.3	2054.5	1991.6	2003.6	2025.3	2026.0
20°	4580.3	4437.2	3804.9	2971.6	2292.1	1956.3	1885.2	1931.7	1988.6	2032.8	2038.8
22.5°	4687.5	4471.0	3640.8	2613.5	1953.4	1783.3	1833.5	1918.1	1983.4	2031.3	2039.5
25°	4777.4	4479.3	3414.5	2231.3	1718.1	1718.1	1808.8	1888.9	1953.4	2000.6	2008.8
27.5°	4810.4	4423.7	3095.3	1877.7	1599.7	1688.2	1774.3	1841.0	1895.7	1945.9	1954.9
30°	4823.2	4321.1	2726.6	1593.7	1551.0	1655.9	1727.8	1784.8	1836.5	1883.7	1892.0
32.5°	4825.4	4197.5	2335.5	1432.6	1517.3	1622.2	1670.2	1720.4	1775.8	1794.5	1797.5
35°	4839.6	4051.4	1923.4	1350.2	1485.8	1590.7	1628.9	1664.9	1575.0	1581.8	1587.7
37.5°	4880.8	3906.7	1578.7	1303.8	1465.6	1574.2	1620.0	1489.5	1419.1	1402.6	1400.4
40°	4958.0	3752.4	1323.3	1266.3	1458.2	1582.5	1562.3	1390.7	1269.3	1178.6	1165.2
42.5°	5065.2	3586.1	1159.9	1241.6	1463.4	1622.2	1482.1	1295.5	1093.9	1035.5	1028.1
45°	5185.8	3411.5	1071.5	1224.3	1481.3	1652.9	1465.6	1168.9	1012.3	968.1	964.3
47.5°	5302.6	3197.9	1025.7	1216.9	1506.0	1628.2	1395.9	1129.9	973.3	950.1	952.3
50°	5436.8	3005.4	998.1	1208.6	1527.8	1612.4	1317.2	1109.7	958.4	986.8	1016.8
52.5°	5550.0	2806.1	973.3	1192.1	1536.0	1584.7	1297.0	1113.5	958.4	1013.1	1041.5
55°	5684.0	2655.5	944.9	1157.6	1520.3	1506.0	1282.7	1135.9	969.6	935.1	938.1
57.5°	5857.1	2606.0	913.4	1103.7	1467.8	1391.5	1276.0	1157.6	962.8	941.1	948.6
60°	6096.9	2658.5	900.6	1033.3	1386.1	1301.5	1276.8	1146.4	915.6	878.2	878.9
62.5°	6325.5	2716.9	899.9	989.0	1285.8	1221.4	1259.5	1109.7	891.7	869.9	878.2
65°	6400.4	2657.7	863.9	939.6	1172.6	1125.4	1228.1	1070.7	873.7	840.7	839.2
67.5°	6300.0	2474.1	791.3	859.4	1043.0	1013.8	1186.9	1024.2	845.2	818.2	813.7
70°	6001.8	2064.3	701.4	753.8	895.4	887.9	1121.7	970.3	807.0	783.7	764.2
72.5°	5199.2	1470.8	591.2	627.1	729.0	753.1	1031.8	899.9	753.1	702.9	672.9
75°	4270.1	1088.7	485.5	493.1	553.7	618.9	908.2	817.4	689.3	603.9	580.7
77.5°	2615.0	666.1	386.6	389.7	397.1	493.8	747.8	725.3	608.4	503.5	487.0
80°	846.7	363.4	279.5	293.7	271.3	361.9	578.5	617.4	522.2	421.1	403.1
82.5°	322.2	212.0	188.8	198.6	188.1	242.8	421.8	494.6	427.9	346.2	281.7
85°	155.8	119.9	111.6	125.1	116.2	124.4	269.8	364.1	324.5	225.5	209.8
87.5°	55.4	53.2	42.7	57.7	49.5	44.2	82.4	183.6	214.3	155.1	138.6
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)