

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: P383237

Luminaire Tested: **GLEON-SA5C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383237
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-SA5C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 33670.8 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

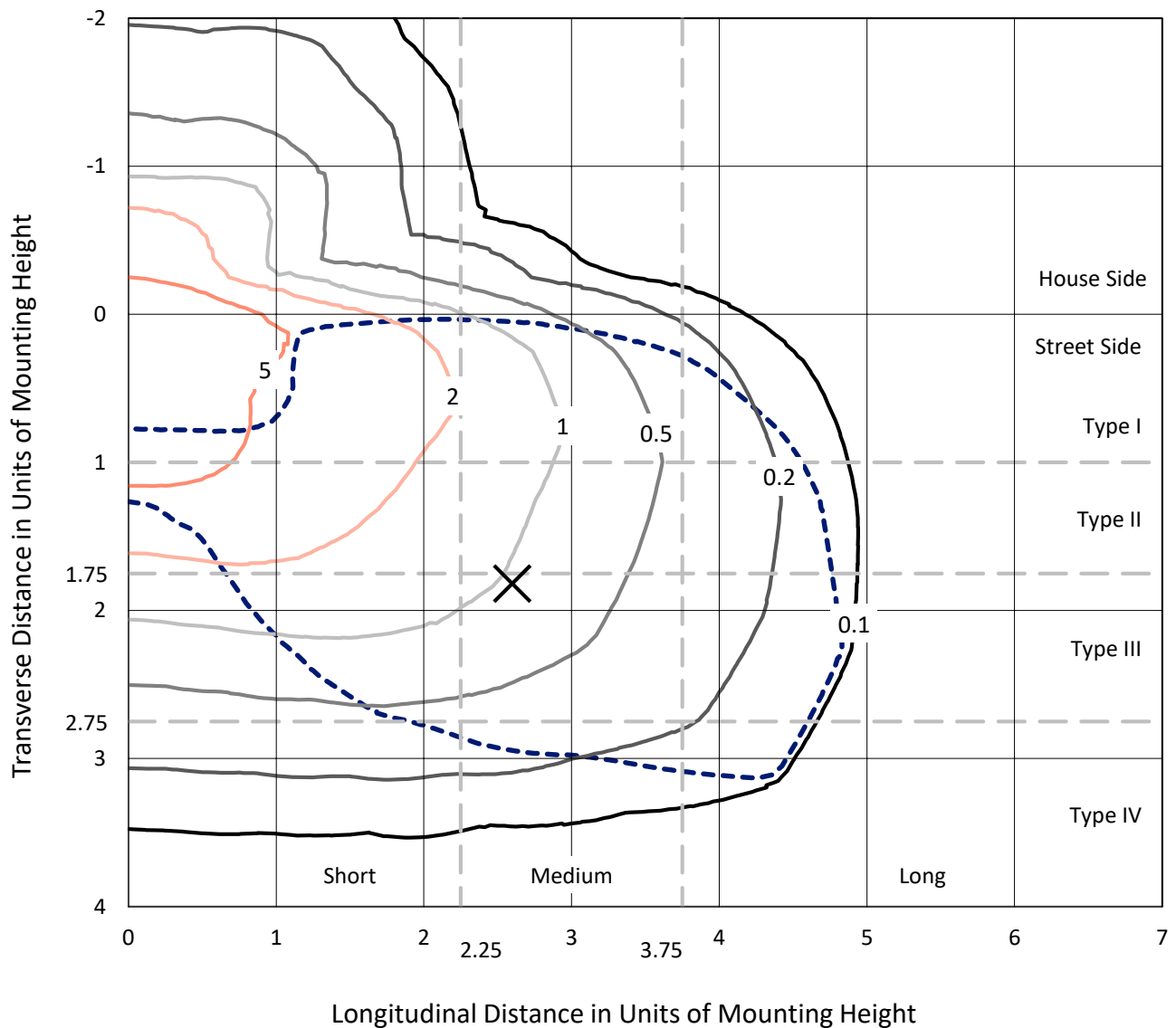
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

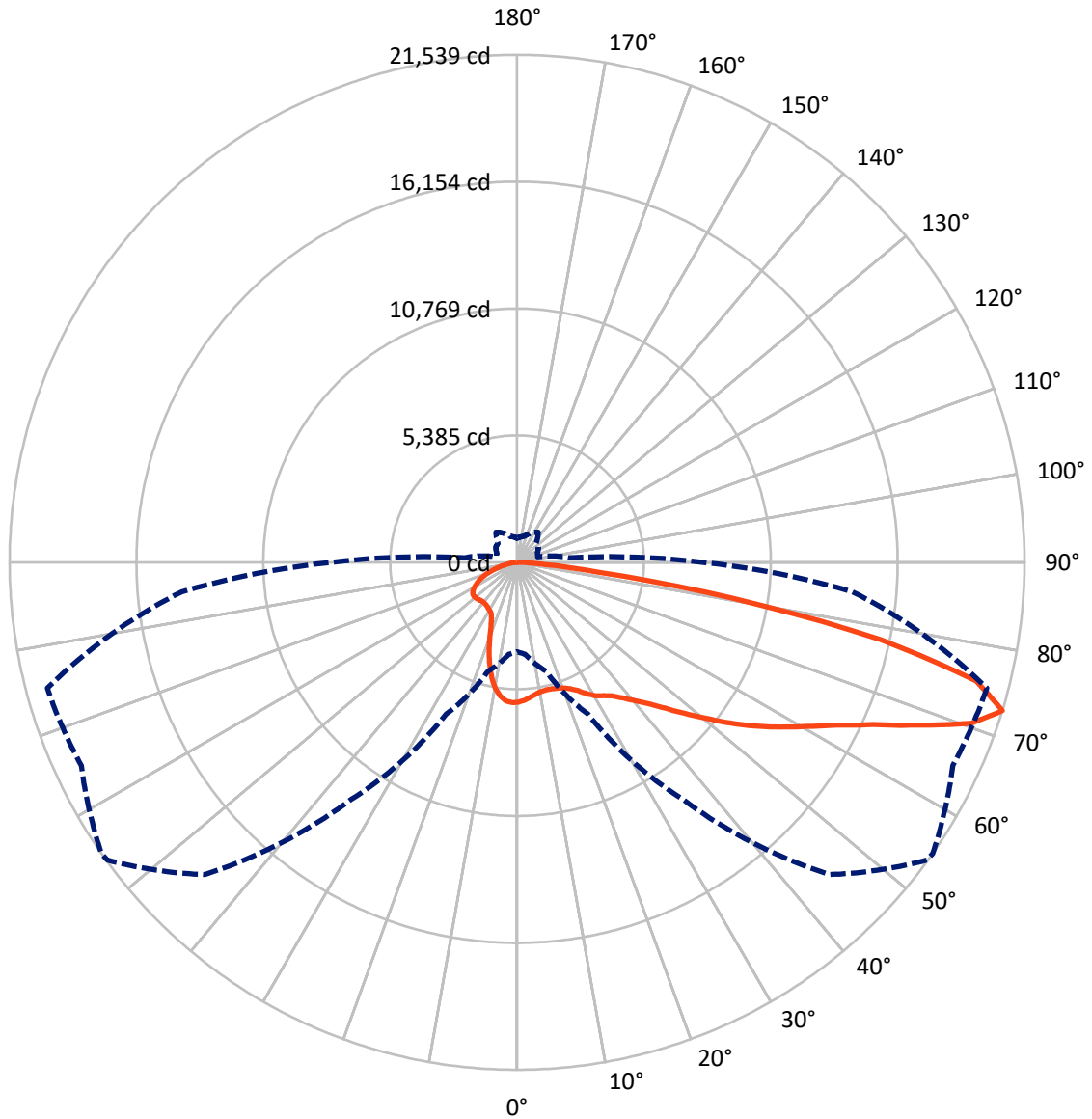
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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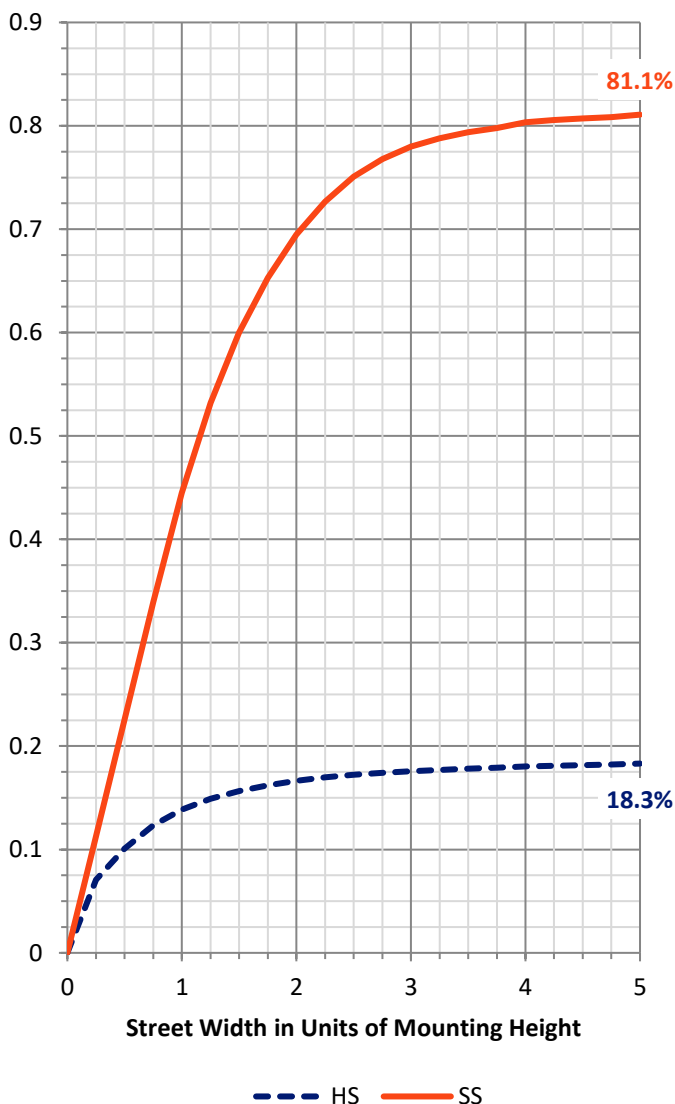
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6258.3	0.0	6258.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27412.5	0.0	27412.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	33670.8	0.0	33670.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.4	1.6
10°-20°	1430.7	4.2
20°-30°	2358.9	7.0
30°-40°	3489.4	10.4
40°-50°	4870.5	14.5
50°-60°	6341.6	18.8
60°-70°	7793.6	23.1
70°-80°	6109.2	18.1
80°-90°	739.3	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°	33670.8	100.0
0°-180°	33670.8	100.0

Coefficient of Utilization

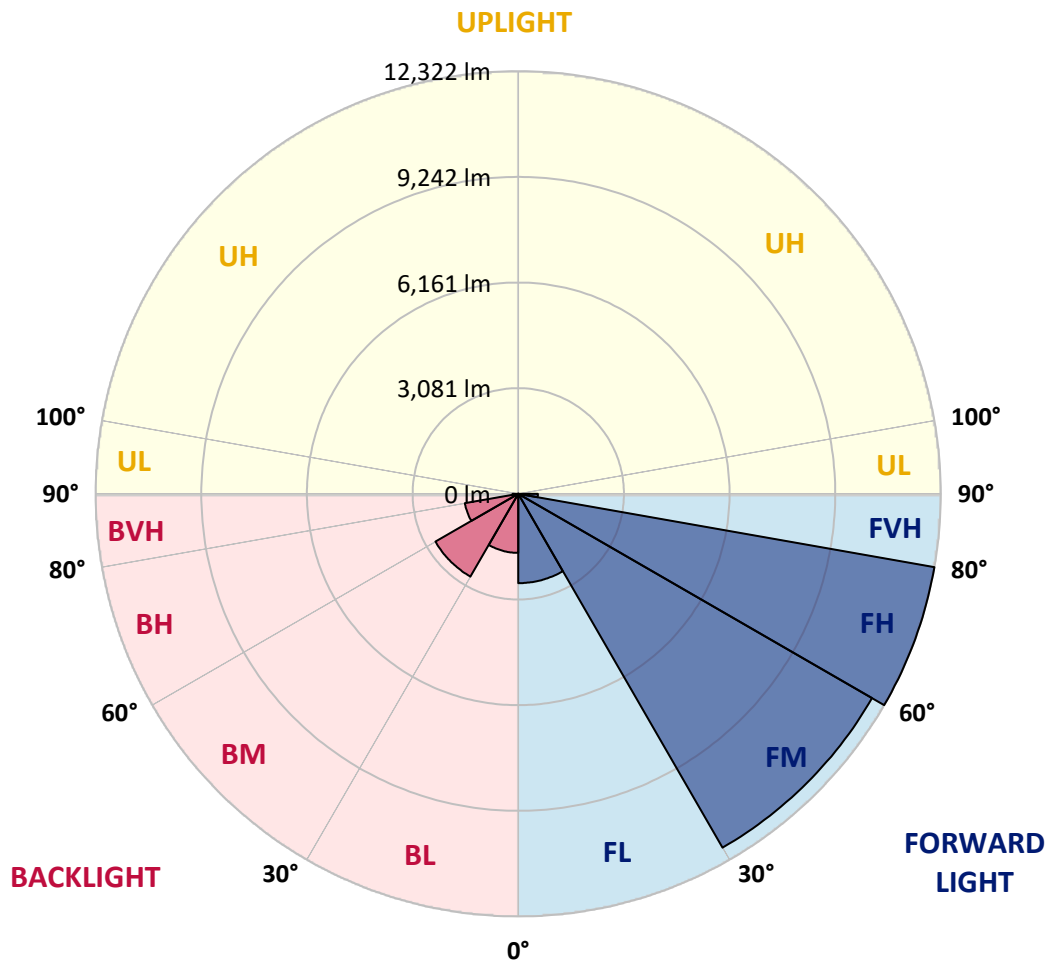


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2605.1	7.7			
FM (30°-60°)	11913.4	35.4			
FH (60°-80°)	12322.4	36.6			G5
FVH (80°-90°)	571.6	1.7			G4/750
BL (0°-30°)	1721.9	5.1	B3/2500		
BM (30°-60°)	2788.2	8.3	B3/5000		
BH (60°-80°)	1580.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	167.7	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8
2.5°	5745.5	5731.8	5748.9	5772.8	5798.9	5834.2	5854.7	5863.7	5899.0	5912.6	5942.2
5°	5479.4	5472.6	5501.0	5541.9	5599.9	5681.8	5747.7	5760.2	5853.5	5919.4	5979.8
7.5°	5286.0	5286.0	5319.0	5367.9	5432.7	5543.0	5636.3	5653.4	5811.5	5953.6	6065.0
10°	5132.5	5138.1	5176.8	5234.8	5311.0	5428.1	5552.1	5571.5	5800.1	6033.2	6210.6
12.5°	5030.2	5043.8	5079.0	5131.3	5225.7	5367.9	5524.8	5551.0	5823.9	6146.9	6385.8
15°	5094.9	5117.7	5121.1	5142.7	5195.1	5349.7	5540.8	5568.0	5875.1	6262.9	6584.7
17.5°	5379.2	5387.2	5351.9	5306.5	5281.5	5380.4	5588.5	5617.0	5936.6	6377.7	6775.8
20°	5811.5	5806.9	5730.7	5607.8	5480.5	5496.4	5667.0	5696.6	6019.6	6479.0	6966.9
22.5°	6357.3	6341.4	6224.2	5998.0	5780.7	5689.7	5804.6	5829.6	6144.7	6623.4	7171.6
25°	7019.2	6983.9	6829.3	6525.7	6206.1	5971.8	6011.6	6035.5	6326.6	6784.9	7359.2
27.5°	7717.5	7682.2	7485.5	7118.1	6692.8	6327.7	6297.1	6317.5	6533.6	6904.4	7498.0
30°	8447.6	8410.1	8230.4	7818.7	7209.2	6696.2	6563.1	6571.1	6679.2	6969.2	7611.7
32.5°	9181.1	9145.9	8944.6	8466.9	7769.8	7092.0	6755.4	6745.1	6766.8	7036.3	7740.2
35°	9924.9	9938.6	9703.2	9174.3	8390.7	7532.1	6982.8	6961.2	6913.5	7173.8	7922.2
37.5°	10721.0	10711.9	10407.2	9854.4	9040.1	8009.7	7309.2	7305.8	7140.9	7434.3	8207.7
40°	11253.3	11259.0	11073.6	10550.4	9696.3	8538.6	7727.7	7719.7	7503.7	7824.3	8581.8
42.5°	11461.4	11498.9	11546.6	11214.6	10383.2	9151.6	8227.0	8215.6	8009.7	8383.9	9021.9
45°	11476.1	11551.2	11846.9	11804.9	11079.3	9853.3	8865.0	8833.1	8685.3	9127.7	9547.3
47.5°	11348.8	11426.1	11917.4	12156.2	11701.4	10593.7	9611.1	9586.0	9458.7	10058.0	10116.0
50°	11070.1	11144.1	11771.9	12328.0	12213.1	11305.5	10470.8	10404.8	10336.6	11132.7	10766.5
52.5°	10548.1	10690.3	11577.4	12368.9	12519.1	11937.9	11374.9	11331.7	11369.3	12266.5	11418.2
55°	9311.9	9471.1	11075.8	12334.8	12745.3	12469.0	12279.1	12276.8	12471.3	13456.1	12117.6
57.5°	8619.3	8732.0	10054.6	12276.8	13013.7	12996.7	13174.1	13195.7	13574.4	14751.5	12850.0
60°	8228.1	8346.4	9537.1	12061.9	13429.9	13679.0	14087.3	14130.6	14695.7	16185.5	13731.4
62.5°	7872.1	8001.8	9216.4	11624.0	13920.1	14654.8	15181.3	15220.0	15883.1	17659.4	14583.2
65°	7263.7	7410.5	8746.7	11336.3	14366.0	15927.4	16572.2	16598.4	17246.7	19203.9	15234.8
67.5°	6403.9	6538.2	7860.8	10700.5	14695.7	17472.9	18421.4	18436.3	18598.8	20294.5	15568.0
70°	5399.7	5451.0	6598.4	9388.1	14305.7	18918.4	20448.0	20451.5	19831.6	20992.8	15513.4
72.5°	3793.9	3914.5	4790.2	7106.8	12293.8	18742.2	21500.0	21538.7	20404.8	20640.2	14273.8
75°	2326.8	2454.3	3004.6	4306.8	7799.4	14740.1	19864.6	20133.0	19330.1	18403.3	11660.4
77.5°	1555.8	1603.6	1960.6	2511.1	3533.5	8480.6	15272.4	15777.2	16058.2	13420.9	7457.0
80°	867.7	958.7	1299.9	1560.3	1571.7	3369.7	9157.3	9275.5	8934.4	5344.0	2300.6
82.5°	459.4	509.5	867.7	916.6	857.5	1128.2	3412.9	3416.4	2854.5	1433.0	683.5
85°	355.9	398.1	594.8	559.6	437.8	500.4	1125.9	1187.4	971.2	586.9	222.9
87.5°	177.5	220.6	403.7	354.8	171.7	143.3	402.6	429.9	383.2	229.7	80.8
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°	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8	5938.8
2.5°	5953.6	5963.9	5976.3	5962.6	5958.2	5939.9	5909.3	5902.4	5886.4	5887.7	5896.7
5°	6005.9	6022.9	6016.1	5963.9	5901.3	5813.7	5722.7	5645.4	5594.2	5590.8	5587.4
7.5°	6106.0	6117.4	6063.9	5915.0	5739.8	5537.3	5346.2	5179.1	5077.9	5052.9	5047.2
10°	6262.9	6260.7	6113.9	5813.7	5464.6	5102.9	4795.9	4563.8	4428.5	4388.7	4378.5
12.5°	6438.0	6411.9	6131.0	5629.4	5075.6	4574.1	4185.2	3926.9	3786.0	3740.4	3729.1
15°	6618.9	6554.1	6089.0	5354.3	4597.9	4004.4	3596.1	3357.2	3281.0	3256.0	3251.5
17.5°	6787.2	6662.1	5968.3	4981.3	4053.3	3436.9	3118.4	3022.9	3041.0	3074.0	3075.1
20°	6952.1	6734.9	5775.0	4510.4	3478.9	2969.4	2861.3	2931.9	3018.3	3085.4	3094.5
22.5°	7114.7	6786.0	5525.9	3966.8	2964.8	2706.7	2782.9	2911.4	3010.4	3083.1	3095.6
25°	7251.2	6798.6	5182.5	3386.7	2607.8	2607.8	2745.4	2867.0	2964.8	3036.5	3049.0
27.5°	7301.3	6714.4	4698.1	2850.0	2428.1	2562.2	2693.0	2794.3	2877.3	2953.5	2967.2
30°	7320.6	6558.7	4138.5	2418.9	2354.1	2513.3	2622.5	2708.9	2787.5	2859.1	2871.6
32.5°	7324.0	6370.9	3544.8	2174.4	2303.0	2462.2	2534.9	2611.1	2695.3	2723.8	2728.3
35°	7345.6	6149.2	2919.4	2049.3	2255.2	2414.4	2472.4	2527.0	2390.5	2400.8	2409.8
37.5°	7408.1	5929.7	2396.2	1978.9	2224.5	2389.4	2458.7	2260.9	2154.0	2129.0	2125.5
40°	7525.3	5695.4	2008.4	1922.0	2213.1	2401.9	2371.2	2110.8	1926.5	1788.9	1768.4
42.5°	7687.9	5442.9	1760.5	1884.4	2221.1	2462.2	2249.5	1966.3	1660.4	1571.7	1560.3
45°	7871.0	5178.0	1626.3	1858.3	2248.4	2508.8	2224.5	1774.1	1536.4	1469.3	1463.6
47.5°	8048.4	4853.8	1556.9	1846.9	2285.9	2471.3	2118.7	1715.0	1477.3	1442.0	1445.5
50°	8252.0	4561.6	1514.9	1834.4	2318.9	2447.4	1999.3	1684.3	1454.5	1497.7	1543.3
52.5°	8423.7	4259.0	1477.3	1809.3	2331.4	2405.3	1968.6	1690.0	1454.5	1537.6	1580.8
55°	8627.3	4030.4	1434.1	1757.1	2307.5	2285.9	1947.0	1724.1	1471.7	1419.3	1423.9
57.5°	8890.0	3955.4	1386.3	1675.2	2227.9	2111.9	1936.8	1757.1	1461.4	1428.4	1439.8
60°	9253.9	4035.0	1367.0	1568.3	2103.9	1975.4	1937.9	1740.0	1389.8	1332.9	1334.0
62.5°	9600.8	4123.7	1365.8	1501.2	1951.6	1853.8	1911.7	1684.3	1353.4	1320.4	1332.9
65°	9714.6	4033.9	1311.2	1426.1	1779.8	1708.2	1863.9	1625.2	1326.1	1276.0	1273.7
67.5°	9562.1	3755.3	1201.0	1304.4	1583.1	1538.7	1801.4	1554.7	1282.8	1241.9	1235.0
70°	9109.5	3133.2	1064.5	1144.1	1359.0	1347.7	1702.5	1472.8	1224.8	1189.6	1160.1
72.5°	7891.5	2232.5	897.3	951.9	1106.6	1142.9	1566.0	1365.8	1142.9	1066.7	1021.3
75°	6481.2	1652.5	736.9	748.3	840.4	939.4	1378.4	1240.7	1046.3	916.6	881.3
77.5°	3969.0	1011.0	586.9	591.3	602.7	749.4	1135.0	1100.9	923.4	764.2	739.2
80°	1285.1	551.6	424.2	445.8	411.7	549.3	878.0	937.1	792.7	639.1	611.8
82.5°	489.1	321.8	286.6	301.4	285.4	368.5	640.3	750.6	649.4	525.4	427.6
85°	236.5	181.9	169.4	189.9	176.2	188.8	409.4	552.7	492.4	342.3	318.4
87.5°	84.1	80.8	64.8	87.6	75.1	67.1	125.1	278.6	325.3	235.4	210.4
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)