

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: P318849

Luminaire Tested: **GLEON-SA5C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26144 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

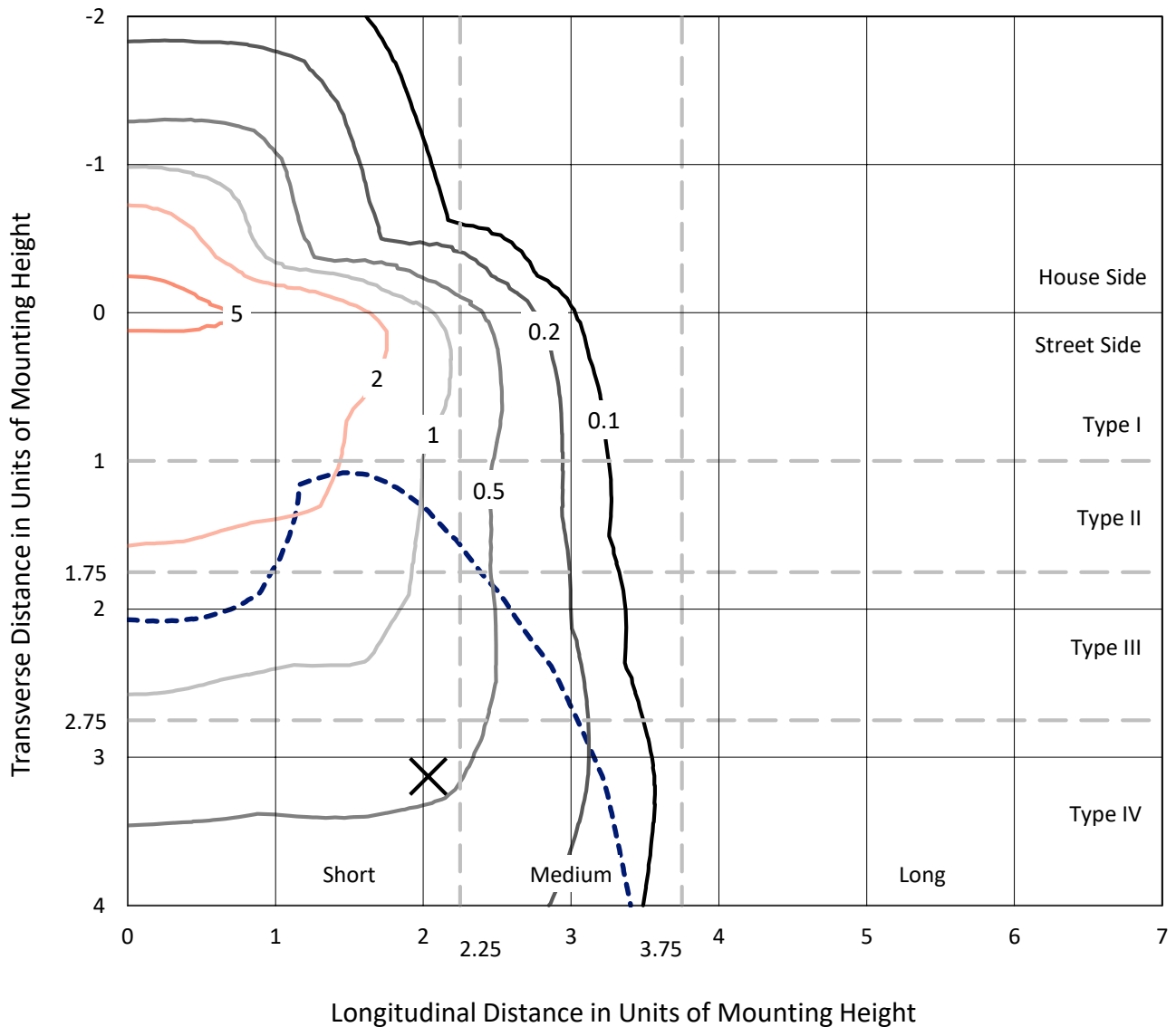
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

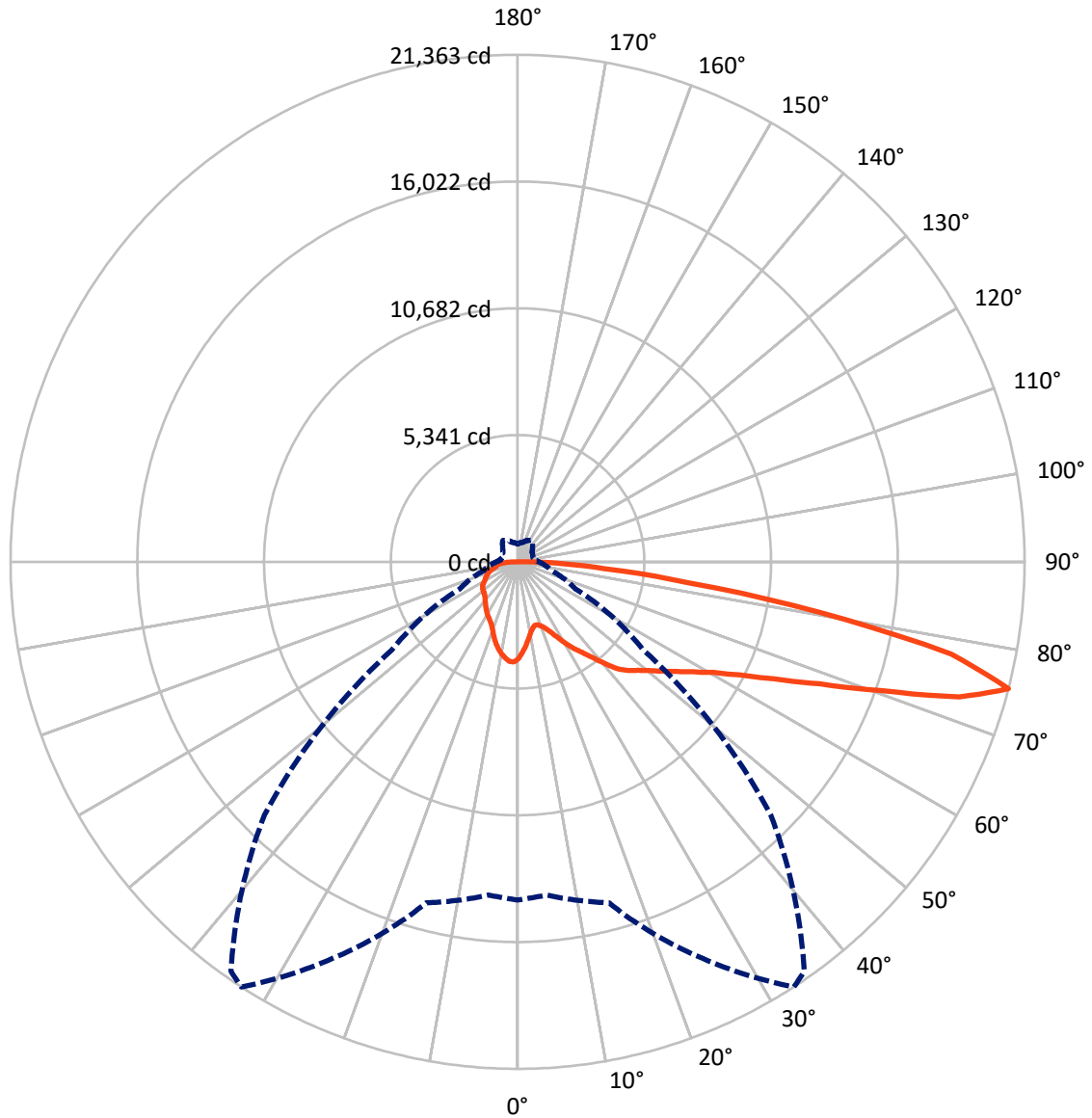
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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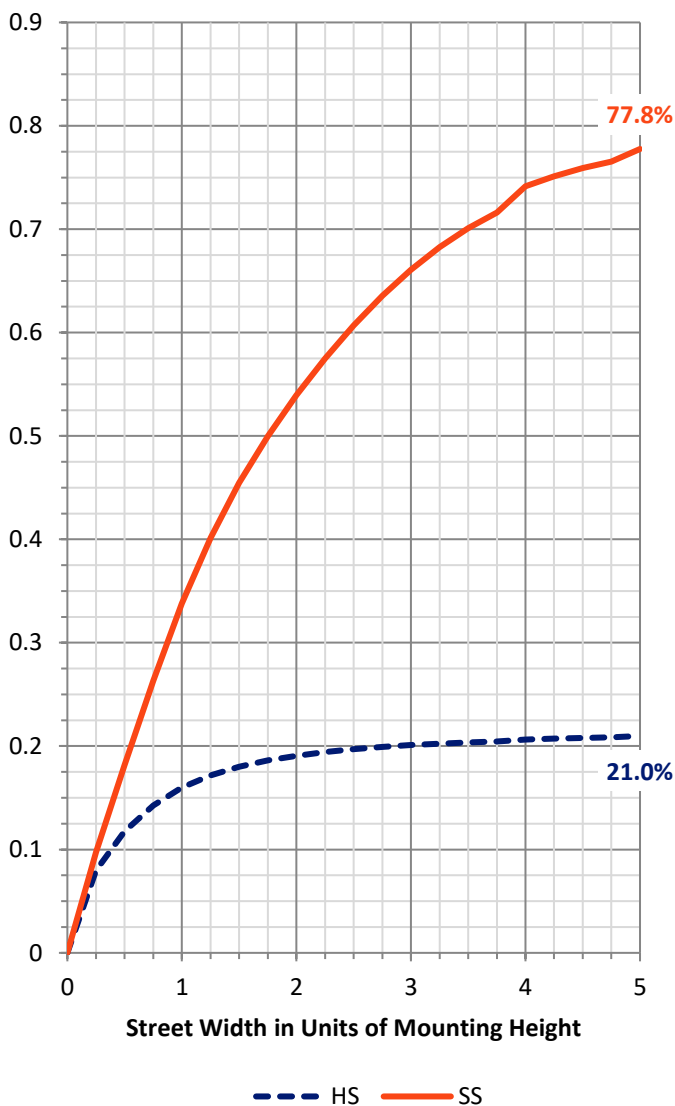
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5613.8	0.0	5613.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	20530.2	0.0	20530.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	26144.0	0.0	26144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	1.4
10°-20°	1000.9	3.8
20°-30°	1634.7	6.3
30°-40°	2434.4	9.3
40°-50°	3491.6	13.4
50°-60°	4793.5	18.3
60°-70°	6001.2	23.0
70°-80°	5429.0	20.8
80°-90°	988.9	3.8
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°	26144.0	100.0
0°-180°	26144.0	100.0

Coefficient of Utilization



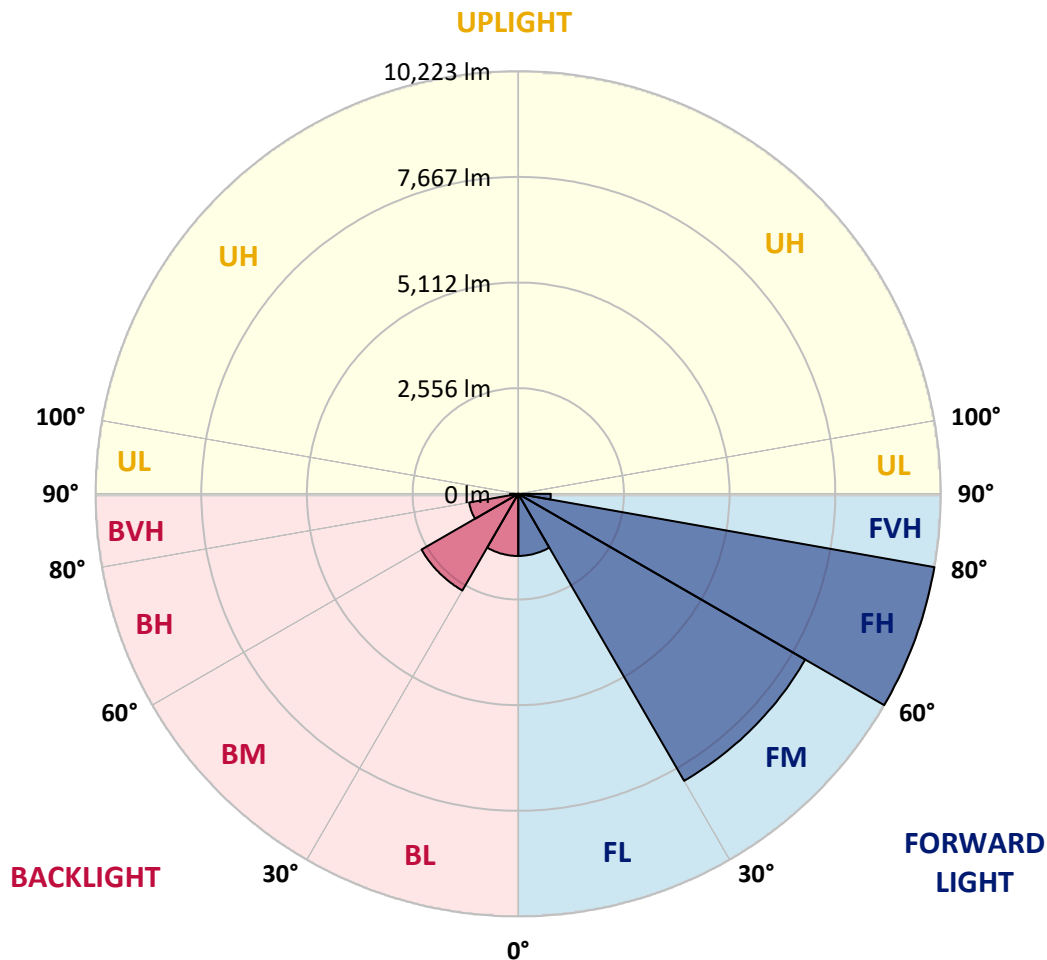
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.6	5.7			
FM (30°-60°)	8017.8	30.7			
FH (60°-80°)	10223.2	39.1			G4/12000
FVH (80°-90°)	787.6	3.0			G5
BL (0°-30°)	1503.6	5.8	B3/2500		
BM (30°-60°)	2701.8	10.3	B3/5000		
BH (60°-80°)	1207.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	201.3	0.8			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5
2.5°	3794.8	3780.3	3807.4	3811.0	3834.5	3843.5	3876.0	3926.6	3968.1	4016.0	4059.4
5°	3450.7	3440.7	3478.7	3505.8	3557.2	3578.9	3655.7	3763.1	3858.9	3967.2	4065.7
7.5°	3123.8	3118.3	3160.8	3222.2	3281.8	3311.6	3444.4	3600.6	3760.4	3935.6	4086.5
10°	2848.3	2846.5	2887.2	2947.7	3035.3	3068.7	3240.3	3446.2	3670.1	3911.3	4121.7
12.5°	2693.9	2700.2	2719.2	2769.8	2851.0	2884.4	3075.0	3317.0	3594.3	3903.1	4173.1
15°	2731.8	2741.8	2709.3	2707.4	2765.2	2791.4	2970.2	3224.9	3540.1	3916.7	4248.1
17.5°	2893.5	2895.3	2809.5	2755.3	2790.5	2804.1	2937.7	3172.5	3508.5	3947.4	4342.0
20°	3121.1	3116.5	2964.8	2874.5	2893.5	2897.1	2983.8	3173.4	3505.8	4000.7	4463.9
22.5°	3422.7	3389.3	3185.2	3062.4	3057.8	3052.4	3102.1	3240.3	3545.5	4087.4	4609.3
25°	3816.4	3784.8	3504.0	3336.0	3299.9	3286.3	3293.5	3383.0	3624.1	4180.4	4771.9
27.5°	4254.4	4199.3	3928.4	3690.9	3615.9	3597.0	3553.6	3584.3	3709.9	4269.8	4965.2
30°	4621.1	4591.3	4354.7	4072.9	3984.4	3957.3	3843.5	3810.1	3833.6	4391.7	5209.0
32.5°	4826.1	4806.2	4662.6	4435.0	4352.9	4314.9	4154.2	4087.4	4032.3	4584.1	5539.5
35°	5074.4	5061.8	4975.1	4809.8	4687.9	4648.2	4523.5	4454.0	4312.2	4848.7	5966.7
37.5°	5390.5	5377.0	5378.8	5245.1	5099.7	5062.7	4980.5	4907.4	4675.3	5196.3	6430.9
40°	5748.1	5721.9	5712.0	5705.7	5613.6	5592.8	5549.4	5450.1	5130.4	5611.8	6888.7
42.5°	6286.4	6193.3	5994.7	6069.6	6160.8	6150.0	6185.2	6042.5	5636.1	6103.0	7335.7
45°	6805.6	6653.0	6309.8	6326.1	6525.7	6586.2	6849.9	6748.7	6184.3	6641.3	7798.1
47.5°	7042.2	6926.7	6635.0	6635.9	6833.6	6959.2	7537.1	7464.9	6760.5	7252.7	8362.6
50°	7306.9	7191.3	6929.4	7027.8	7200.3	7333.9	8200.9	8163.9	7308.7	7921.9	9039.0
52.5°	7595.8	7399.9	7233.7	7409.8	7651.8	7807.2	8865.6	8764.4	7811.7	8595.6	9816.5
55°	7599.4	7546.2	7672.6	7801.7	8163.9	8354.4	9561.9	9294.5	8221.7	9257.5	10449.6
57.5°	8032.0	7945.3	8213.5	8273.1	8746.4	8961.3	10254.5	9756.0	8638.9	9765.0	10790.9
60°	8604.6	8530.5	8750.0	8907.1	9467.0	9754.2	10994.1	10230.1	8966.7	10148.0	10774.7
62.5°	9593.5	9509.5	9506.8	9727.1	10481.2	10815.3	11824.1	10695.2	9096.8	10223.8	10315.0
65°	11041.1	10907.4	10655.5	10760.2	11881.9	12215.1	12751.5	11032.1	8925.2	9817.4	9131.1
67.5°	12449.9	12445.4	12135.6	12350.6	13731.4	13998.7	13808.1	11065.5	8389.6	8402.3	7030.5
70°	13854.2	13872.3	13819.9	14567.6	16230.2	16508.4	14933.4	10616.7	7185.8	6067.8	4212.0
72.5°	14966.8	14962.3	15226.0	17154.1	19473.2	19410.9	15881.6	9256.6	5159.3	3275.5	2013.0
75°	14246.1	14089.0	14874.7	18434.6	21363.3	21059.0	15075.2	6457.0	2677.6	1491.0	1083.7
77.5°	9291.8	9440.8	10594.1	15228.7	18686.6	18316.3	11060.1	3012.7	1261.6	978.0	785.7
80°	3364.9	3522.0	4960.6	8626.3	12874.4	12813.9	5446.5	1238.1	853.4	738.7	572.6
82.5°	1157.8	1215.6	1957.0	3830.9	7268.9	7539.8	2049.1	703.5	620.4	523.8	391.9
85°	454.3	520.2	895.0	1843.2	3666.5	3693.6	829.9	420.8	431.7	343.2	214.9
87.5°	172.5	209.5	428.1	856.1	1674.3	1538.0	297.1	200.5	245.6	204.1	102.0
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°	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5	4086.5
2.5°	4092.8	4111.7	4151.5	4178.6	4207.5	4215.6	4219.2	4226.4	4233.7	4230.9	4231.9
5°	4118.1	4155.1	4219.2	4246.3	4258.9	4244.5	4216.5	4193.9	4177.7	4168.6	4165.9
7.5°	4159.6	4212.0	4280.6	4276.1	4247.2	4183.1	4110.8	4056.7	4011.5	3995.2	3986.2
10°	4214.7	4276.1	4324.0	4272.5	4188.5	4077.4	3969.1	3885.1	3817.3	3791.1	3786.6
12.5°	4285.1	4347.4	4356.5	4247.2	4108.1	3956.4	3809.2	3698.1	3597.0	3564.5	3557.2
15°	4376.3	4435.0	4379.1	4203.0	4008.8	3804.7	3614.1	3463.3	3356.8	3317.0	3302.6
17.5°	4472.1	4528.1	4383.6	4129.8	3878.7	3625.0	3385.7	3231.2	3109.3	3063.3	3057.8
20°	4586.8	4612.0	4364.6	4025.0	3699.9	3392.0	3140.0	2994.6	2929.6	2897.1	2893.5
22.5°	4728.5	4701.5	4321.3	3883.3	3473.3	3122.9	2917.9	2850.1	2833.9	2826.7	2829.4
25°	4878.5	4795.4	4257.1	3698.1	3187.0	2853.7	2755.3	2774.3	2795.9	2793.2	2793.2
27.5°	5043.7	4891.1	4158.7	3452.5	2870.0	2633.4	2645.1	2714.7	2747.2	2746.3	2745.4
30°	5255.9	4999.5	4033.2	3157.2	2573.8	2478.1	2549.4	2634.3	2678.5	2676.7	2677.6
32.5°	5516.9	5118.7	3862.5	2827.6	2359.8	2363.4	2445.6	2529.5	2581.0	2576.5	2577.4
35°	5822.2	5252.3	3631.3	2502.4	2218.0	2272.2	2337.2	2395.9	2444.6	2438.3	2432.0
37.5°	6154.5	5383.3	3324.3	2211.7	2102.4	2187.3	2241.5	2251.4	2274.0	2257.7	2246.0
40°	6470.6	5483.5	2928.7	1973.2	1985.9	2115.0	2150.2	2110.5	2069.9	2064.4	2048.2
42.5°	6746.0	5516.9	2528.6	1782.7	1863.1	2039.2	2060.8	1977.8	1904.6	1870.3	1855.8
45°	7036.8	5528.7	2155.7	1622.8	1744.8	1971.4	1994.9	1883.8	1780.9	1706.8	1682.4
47.5°	7417.0	5613.6	1865.8	1504.5	1654.4	1926.3	1959.7	1808.9	1675.2	1569.6	1547.0
50°	7914.6	5781.5	1630.1	1414.2	1595.7	1896.5	1934.4	1735.7	1588.5	1461.2	1438.6
52.5°	8467.3	5936.0	1439.5	1341.1	1538.9	1844.1	1901.9	1683.3	1507.2	1360.9	1336.6
55°	8853.8	5817.7	1286.0	1265.2	1464.8	1769.1	1856.7	1639.1	1390.7	1263.4	1241.7
57.5°	8927.9	5413.1	1169.5	1186.7	1375.4	1675.2	1787.2	1540.7	1327.5	1221.0	1198.4
60°	8725.6	4849.6	1082.8	1114.4	1279.7	1556.9	1657.2	1471.1	1267.0	1175.8	1156.9
62.5°	8217.2	4272.5	1018.7	1049.4	1190.3	1436.8	1575.9	1398.0	1205.6	1124.3	1105.4
65°	7190.4	3587.0	957.3	991.6	1107.2	1333.0	1502.7	1330.2	1145.1	1082.8	1064.7
67.5°	5427.5	2686.7	899.5	930.2	1033.1	1242.6	1423.3	1263.4	1086.4	1046.7	1025.0
70°	3196.0	1682.4	833.5	866.1	955.5	1148.7	1338.4	1190.3	1013.3	995.2	967.2
72.5°	1487.4	1012.4	758.6	790.2	857.9	1023.2	1229.1	1094.5	926.6	886.8	848.9
75°	887.7	740.5	670.1	698.1	745.9	889.5	1091.8	997.0	844.4	792.0	752.3
77.5°	663.8	566.2	572.6	602.4	641.2	778.5	967.2	920.2	781.2	740.5	713.4
80°	477.7	429.9	466.9	499.4	540.0	708.0	926.6	850.7	706.2	652.0	626.7
82.5°	318.8	308.9	351.3	384.7	424.4	619.5	870.6	745.0	603.3	534.6	478.6
85°	176.1	186.0	236.6	251.1	285.4	436.2	713.4	598.7	454.3	365.7	349.5
87.5°	73.1	85.8	127.3	122.8	151.7	260.1	469.6	361.2	289.0	215.8	168.0
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)