

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: P318191

Luminaire Tested: **GLEON-SA7A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23779 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

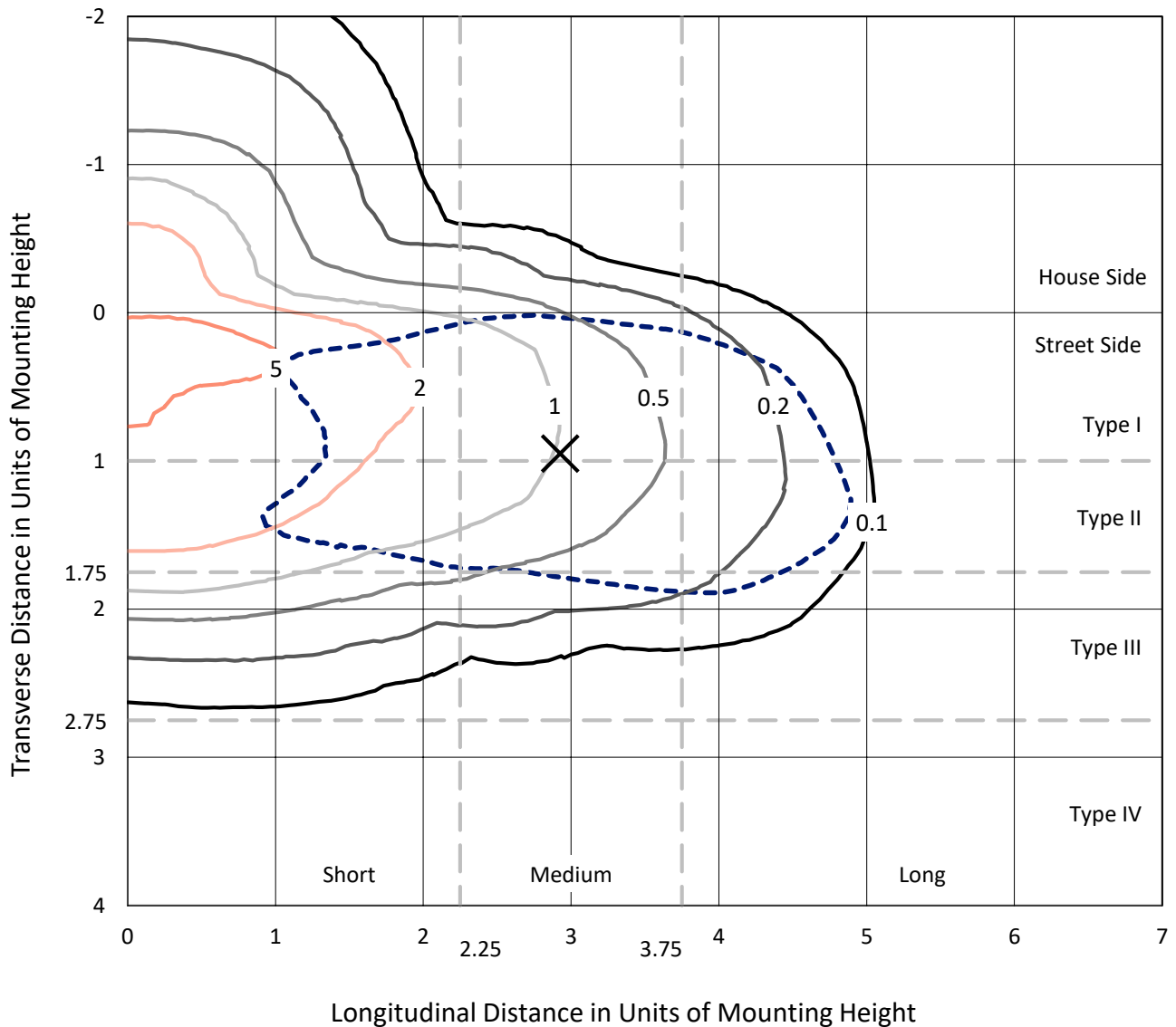
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318191
 CATALOG NUMBER: GLEON-SA7A-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

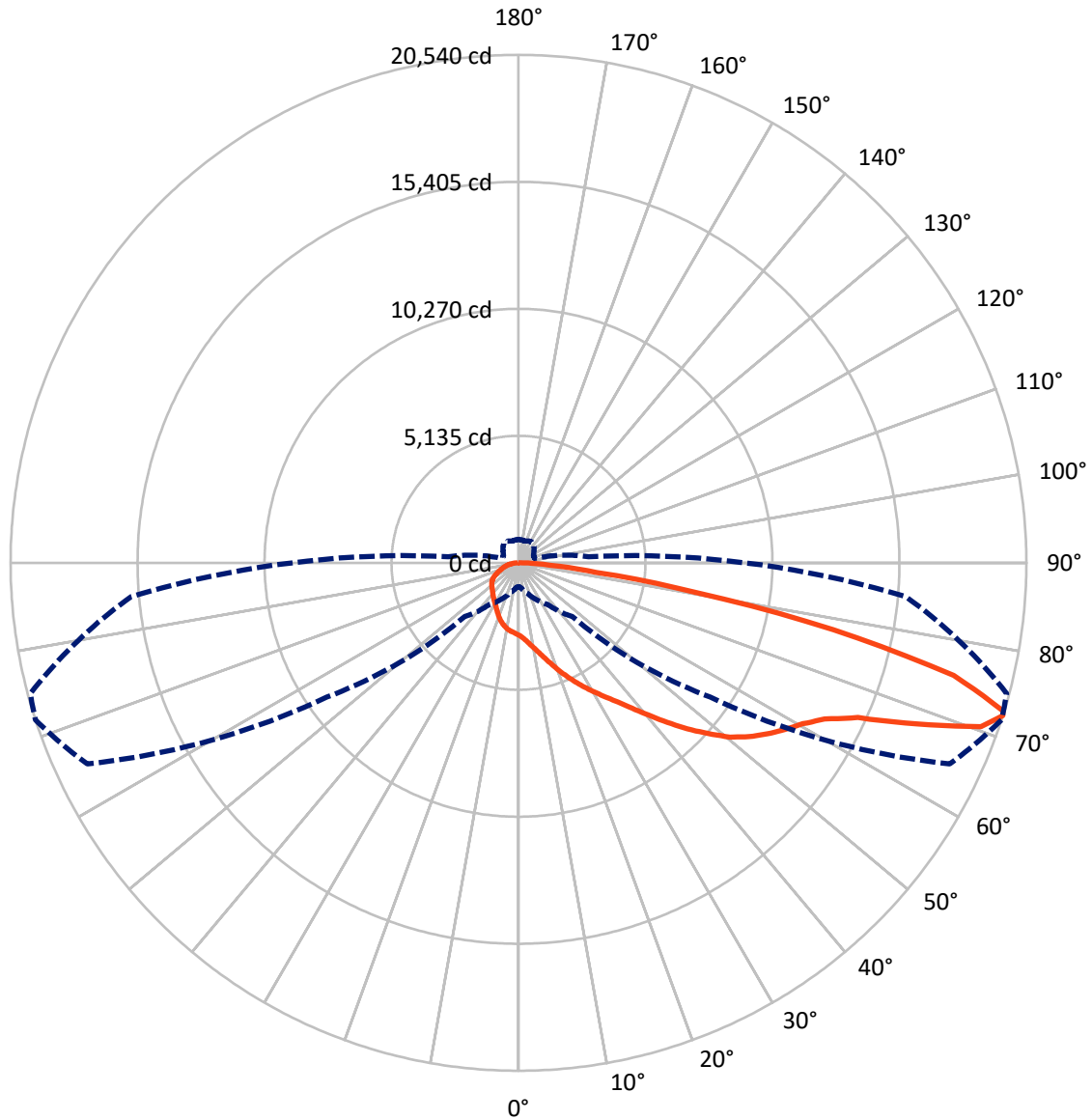
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P318191
CATALOG NUMBER: GLEON-SA7A-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P318191
 CATALOG NUMBER: GLEON-SA7A-827-U-T2

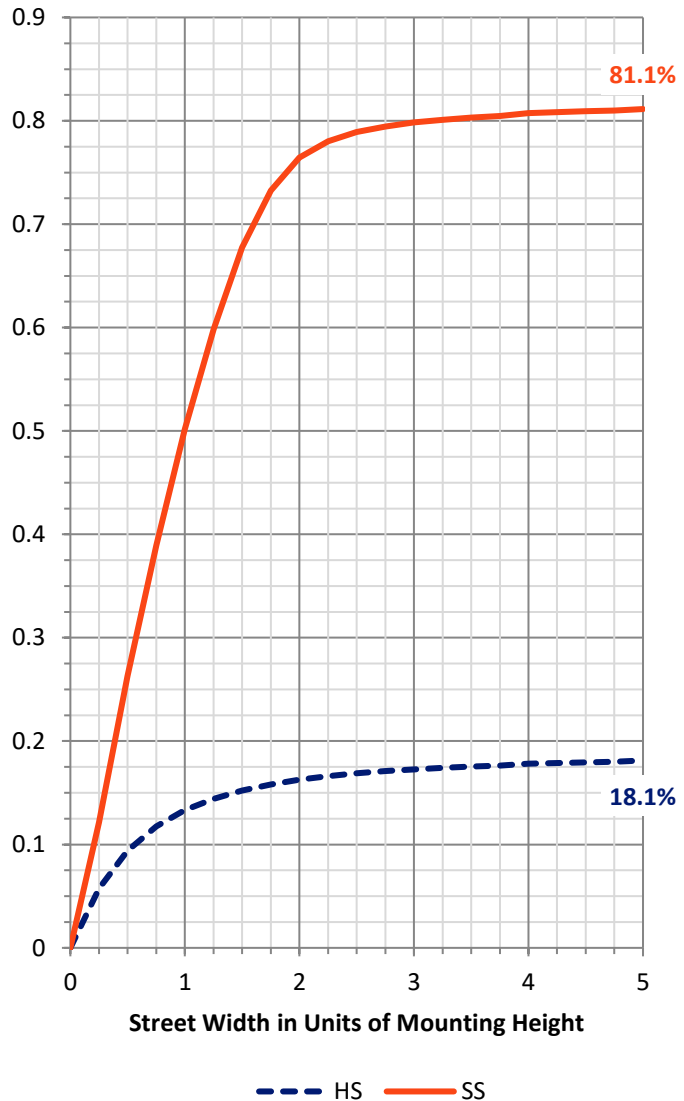
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4411.2	0.0	4411.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19367.8	0.0	19367.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	23779.0	0.0	23779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	1.2
10°-20°	947.3	4.0
20°-30°	1659.9	7.0
30°-40°	2461.2	10.4
40°-50°	3599.6	15.1
50°-60°	4953.1	20.8
60°-70°	5514.2	23.2
70°-80°	3736.4	15.7
80°-90°	614.1	2.6
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°	23779.0	100.0
0°-180°	23779.0	100.0

Coefficient of Utilization

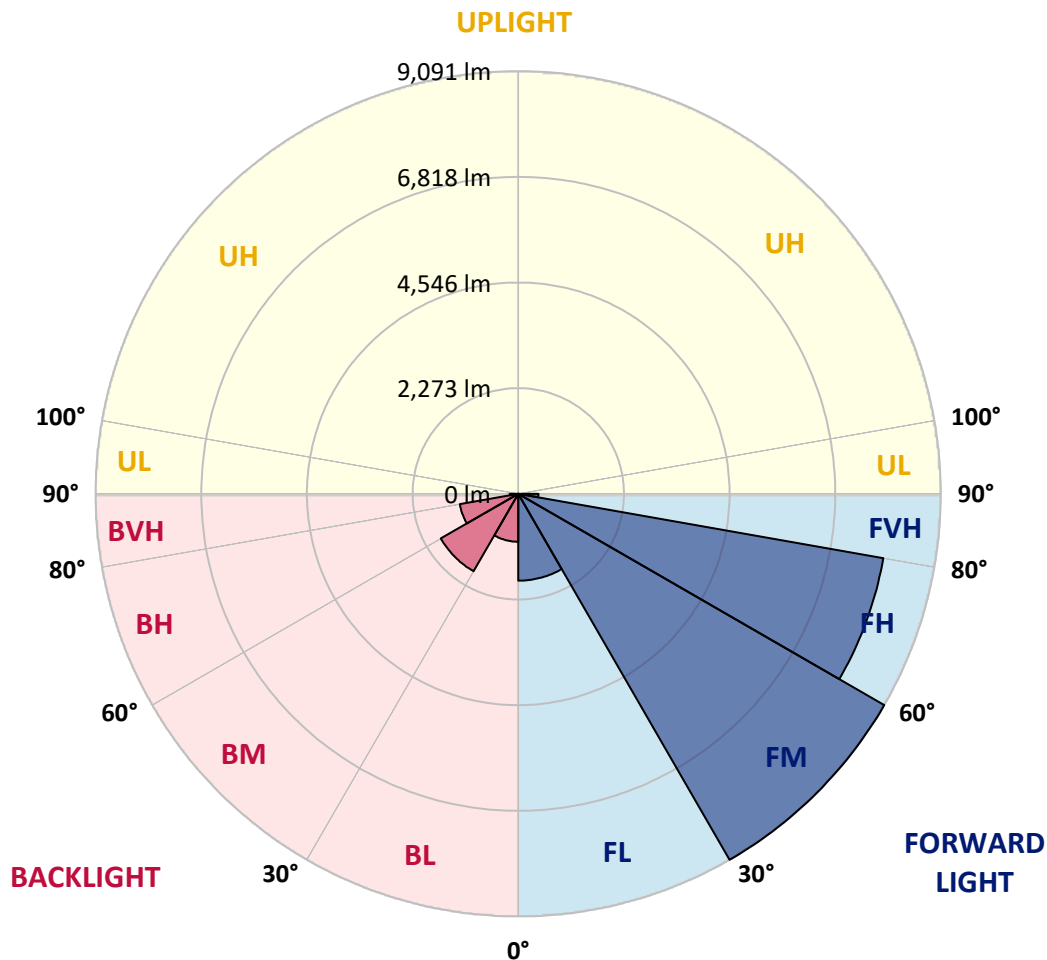


REPORT NUMBER: P318191
 CATALOG NUMBER: GLEON-SA7A-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1869.2	7.9			
FM (30°-60°)	9091.0	38.2			
FH (60°-80°)	7974.5	33.5			G4/12000
FVH (80°-90°)	433.2	1.8			G3/500
BL (0°-30°)	1031.2	4.3	B3/2500		
BM (30°-60°)	1922.9	8.1	B2/2500		
BH (60°-80°)	1276.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	180.9	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-G4
 Type III Medium





REPORT NUMBER: P318191
 CATALOG NUMBER: GLEON-SA7A-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4
2.5°	3231.7	3226.7	3209.5	3209.5	3176.8	3149.0	3096.6	3061.4	3019.6	3004.9	2955.7
5°	3544.4	3546.1	3524.8	3510.0	3461.7	3402.8	3313.5	3232.5	3151.4	3118.7	3018.0
7.5°	3807.2	3804.0	3798.2	3786.0	3740.9	3680.3	3560.0	3439.6	3320.1	3271.0	3097.4
10°	3975.9	3983.3	3988.2	3993.9	3975.1	3931.7	3817.9	3671.3	3514.9	3447.8	3192.4
12.5°	4061.1	4074.2	4097.1	4136.4	4167.5	4162.6	4079.9	3924.3	3738.5	3654.1	3311.1
15°	4111.0	4128.2	4164.2	4234.6	4322.2	4372.2	4350.1	4209.3	4002.1	3898.1	3456.0
17.5°	4142.1	4156.0	4211.7	4305.9	4436.1	4568.7	4626.8	4508.9	4300.1	4181.4	3622.2
20°	4163.4	4174.0	4243.6	4354.2	4522.8	4734.1	4896.2	4866.7	4628.5	4474.5	3795.8
22.5°	4210.9	4219.9	4286.2	4397.6	4584.2	4856.9	5155.7	5200.0	4974.8	4800.4	3981.6
25°	4343.5	4343.5	4399.2	4477.0	4652.2	4963.3	5375.2	5570.9	5328.5	5125.5	4153.6
27.5°	4596.5	4594.1	4614.5	4641.6	4774.2	5071.4	5570.9	5898.4	5695.3	5473.4	4320.6
30°	4896.2	4912.6	4915.0	4901.9	4964.2	5206.5	5751.8	6243.9	6064.6	5825.5	4491.7
32.5°	5281.8	5292.5	5280.2	5236.8	5227.8	5398.1	5929.5	6605.8	6464.1	6193.1	4648.1
35°	5771.5	5751.0	5712.5	5624.1	5539.7	5654.4	6132.5	6967.7	6912.8	6637.7	4863.4
37.5°	6296.3	6297.1	6249.6	6049.0	5932.8	5981.9	6412.5	7377.9	7455.6	7166.6	5139.4
40°	6717.1	6739.2	6768.7	6505.1	6354.4	6422.4	6768.7	7853.6	8097.6	7793.8	5498.8
42.5°	7011.1	7036.4	7120.0	6954.6	6798.2	6924.3	7187.9	8361.2	8818.1	8517.6	5919.7
45°	7322.2	7336.1	7395.1	7323.8	7223.9	7508.0	7660.3	8886.8	9580.3	9288.9	6390.4
47.5°	7649.7	7664.4	7725.0	7677.5	7625.1	8053.3	8153.2	9382.2	10310.7	10136.3	6893.2
50°	8054.2	8064.0	8121.3	8035.3	8051.7	8464.4	8593.7	9836.6	11076.2	10897.7	7397.5
52.5°	8606.0	8608.5	8687.9	8610.1	8533.1	8765.7	8972.8	10264.8	11676.4	11592.0	7901.9
55°	9038.3	9064.5	9324.9	9308.5	9264.3	9039.1	9289.7	10672.6	12211.8	12252.0	8437.3
57.5°	8762.4	8864.7	9392.0	9763.7	10125.6	9719.5	9717.9	11131.9	12709.6	12899.6	9026.0
60°	7674.3	7813.4	8590.5	9414.9	10547.3	10903.5	10607.1	11692.7	13212.4	13541.5	9763.7
62.5°	5480.8	5710.0	6763.0	8079.5	9969.2	11687.8	12416.5	12582.7	13896.0	14284.9	10722.5
65°	2770.7	2944.3	3826.9	5412.8	7964.9	11175.3	14383.2	14531.4	15084.1	15429.6	12198.7
67.5°	1683.4	1748.9	2179.5	3010.6	4883.1	8705.1	15025.1	17779.4	17383.1	17566.5	14303.8
70°	1240.4	1288.7	1557.3	1999.4	2808.4	5108.3	13055.2	20097.3	19837.0	19816.5	15859.4
72°	966.1	1001.3	1238.8	1615.4	2053.5	3064.6	9462.4	19241.7	20539.5	20436.3	15717.0
72.5°	916.2	947.3	1163.5	1520.4	1940.5	2778.1	8507.8	18664.5	20488.7	20442.0	15532.7
75°	721.3	743.4	861.3	1175.7	1518.8	1576.1	4662.0	14464.3	18175.7	18931.4	13970.5
77.5°	596.9	600.2	662.4	855.6	1183.9	1114.3	2290.1	10035.6	13015.0	13846.1	9896.4
80°	486.3	490.4	519.9	600.2	895.7	824.5	1087.3	5770.6	7287.0	7296.0	4706.2
82.5°	387.3	388.1	420.8	438.9	643.5	589.5	623.1	2709.3	3184.2	3063.0	1691.6
85°	272.6	266.9	411.0	360.3	420.8	378.3	343.9	1072.6	1316.6	1259.3	529.7
87.5°	90.9	94.2	182.6	233.3	245.6	214.5	153.1	411.0	497.0	492.9	167.8
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: P318191
 CATALOG NUMBER: GLEON-SA7A-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4	2925.4
2.5°	2940.2	2914.0	2875.5	2832.9	2799.3	2765.0	2739.6	2726.5	2711.7	2699.5	2714.2
5°	2971.3	2922.2	2840.3	2760.0	2701.1	2648.7	2611.0	2591.4	2573.4	2561.1	2562.7
7.5°	3022.1	2942.6	2805.1	2688.0	2606.1	2549.6	2511.1	2498.0	2486.6	2483.3	2487.4
10°	3076.1	2959.0	2758.4	2602.8	2509.5	2462.8	2445.6	2454.6	2462.8	2470.2	2478.4
12.5°	3137.5	2973.7	2690.5	2503.0	2423.5	2405.5	2422.7	2462.0	2490.7	2507.9	2518.5
15°	3217.7	2986.8	2611.9	2403.1	2349.8	2370.3	2428.4	2496.4	2546.4	2578.3	2583.2
17.5°	3291.4	2986.0	2511.1	2302.4	2290.1	2349.8	2437.5	2533.3	2600.4	2645.4	2654.4
20°	3367.6	2963.9	2394.1	2204.1	2229.5	2327.7	2441.5	2557.0	2638.1	2690.5	2702.7
22.5°	3438.8	2925.4	2265.5	2114.9	2178.7	2298.3	2426.0	2543.1	2624.1	2666.7	2679.8
25°	3487.1	2858.3	2135.3	2039.5	2133.7	2262.2	2375.2	2469.4	2530.0	2551.3	2554.5
27.5°	3511.7	2770.7	2012.5	1974.0	2087.0	2203.3	2281.1	2327.7	2344.9	2343.3	2340.0
30°	3514.9	2655.2	1906.9	1920.8	2033.0	2116.5	2153.3	2144.3	2122.2	2084.6	2087.8
32.5°	3504.3	2525.1	1818.5	1870.1	1964.2	2010.9	2012.5	1969.1	1910.2	1850.4	1834.0
35°	3507.6	2397.3	1740.7	1812.7	1880.7	1901.2	1882.3	1818.5	1738.2	1661.3	1644.9
37.5°	3543.6	2286.0	1673.5	1746.4	1788.2	1793.1	1766.1	1698.9	1640.0	1564.7	1558.1
40°	3629.6	2206.6	1609.7	1671.9	1695.7	1698.1	1659.6	1612.1	1617.1	1576.9	1576.1
42.5°	3784.3	2172.2	1553.2	1594.1	1608.9	1613.8	1584.3	1554.0	1596.6	1570.4	1561.4
45°	3984.1	2180.4	1505.7	1518.0	1545.0	1567.9	1549.9	1513.1	1529.4	1415.6	1378.0
47.5°	4215.0	2232.8	1468.0	1452.5	1499.2	1542.5	1514.7	1459.0	1400.9	1287.9	1266.6
50°	4485.2	2313.8	1433.7	1387.8	1449.2	1508.2	1480.3	1400.9	1313.3	1258.4	1251.1
52.5°	4766.8	2412.9	1399.3	1316.6	1386.2	1482.0	1468.0	1387.8	1279.7	1225.7	1215.9
55°	5086.2	2512.8	1355.9	1233.9	1318.2	1469.7	1462.3	1340.3	1254.3	1224.0	1216.7
57.5°	5483.3	2626.6	1298.6	1147.9	1254.3	1425.5	1402.5	1311.7	1228.1	1205.2	1202.8
60°	6000.7	2794.4	1215.9	1056.2	1176.6	1357.5	1352.6	1269.9	1186.4	1170.0	1166.7
62.5°	6776.9	3072.0	1102.1	964.5	1089.8	1242.1	1287.1	1213.4	1142.2	1141.4	1143.0
65°	7980.5	3489.6	978.4	884.3	1002.2	1144.6	1210.9	1155.3	1097.1	1113.5	1116.0
67.5°	9375.6	3835.9	857.2	805.7	912.9	1052.1	1142.2	1097.1	1037.4	1079.9	1080.8
70°	9839.9	3526.4	750.8	727.9	820.4	962.9	1067.7	1033.3	972.7	1015.3	1011.2
72°	9157.0	2846.8	682.0	668.9	750.8	889.2	1001.3	973.5	913.7	942.4	931.8
72.5°	8941.7	2714.2	664.8	654.2	732.0	870.3	984.2	958.8	899.0	923.6	913.7
75°	7976.4	2357.2	571.5	574.0	638.6	778.6	887.5	879.4	817.9	820.4	817.1
77.5°	5785.4	1728.4	481.4	497.8	543.7	684.5	790.1	785.2	718.1	705.8	703.3
80°	2684.7	881.8	392.2	399.6	447.0	572.3	673.8	667.3	613.3	597.7	588.7
82.5°	919.5	419.2	294.8	299.7	346.3	461.0	584.6	580.5	535.5	505.2	486.3
85°	328.3	208.8	206.3	201.4	247.3	362.7	509.3	487.2	420.8	358.6	357.0
87.5°	106.4	89.2	106.4	105.6	144.1	245.6	370.1	315.2	305.4	253.8	248.9
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)