

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: P321071

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
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-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24860 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

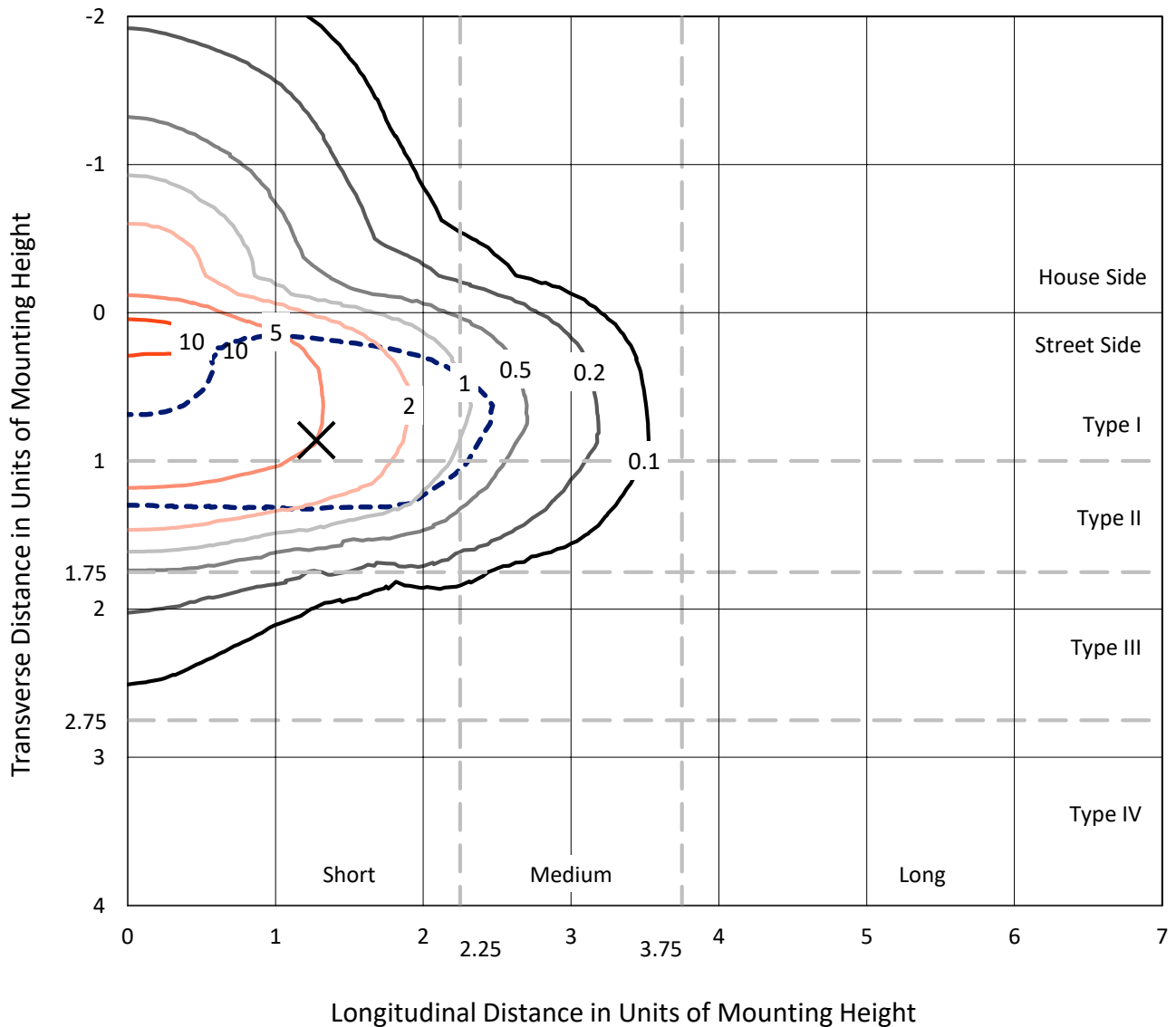
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

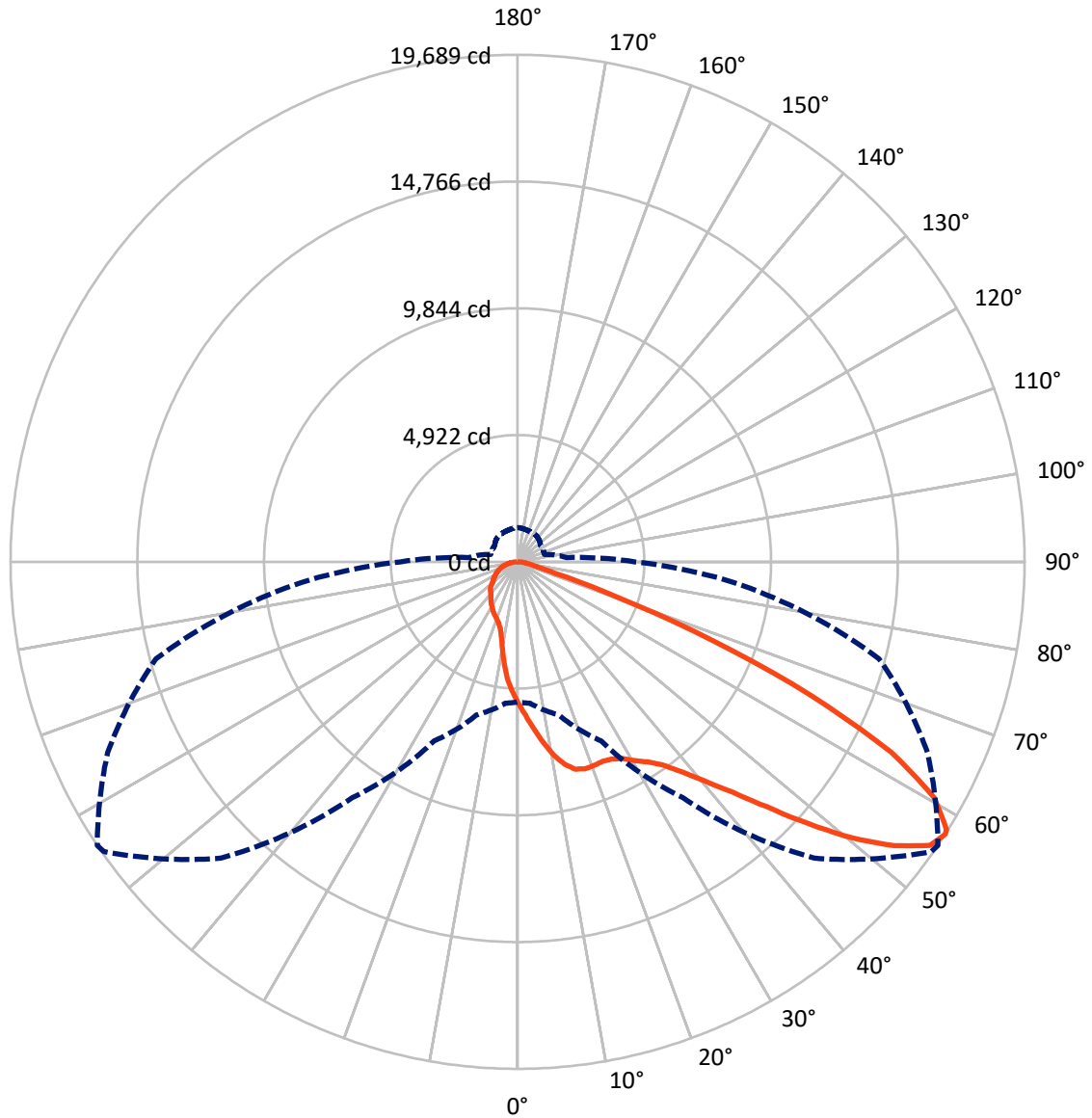
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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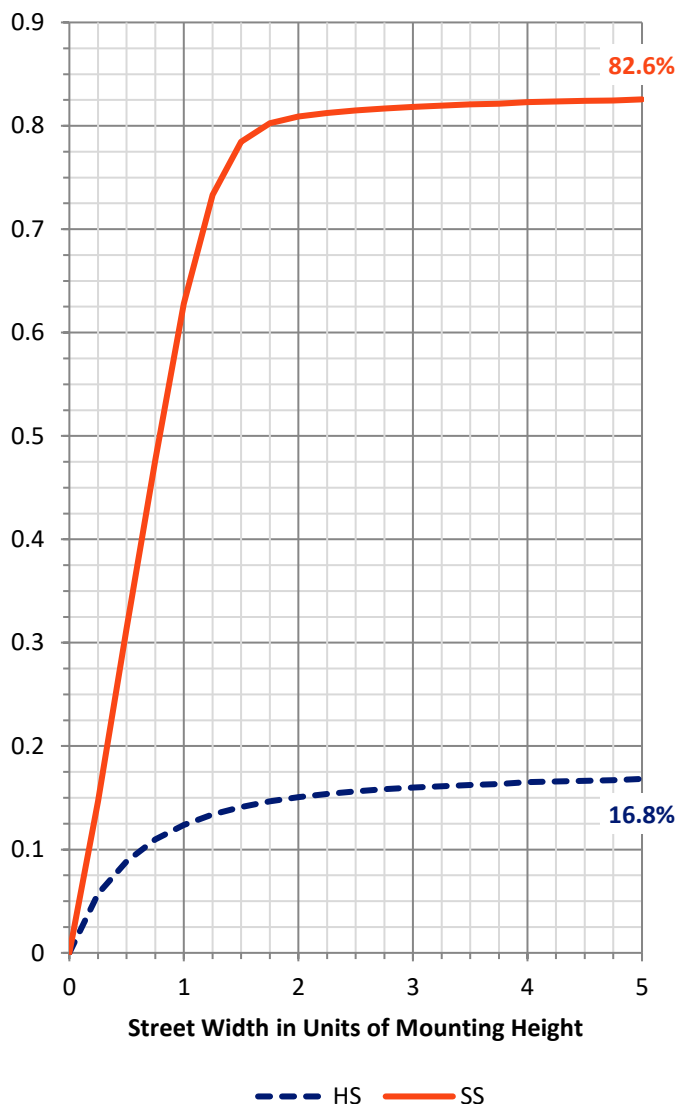
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4285.3	0.0	4285.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	20574.7	0.0	20574.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	24860.0	0.0	24860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.7	2.1
10°-20°	1489.2	6.0
20°-30°	2425.6	9.8
30°-40°	3626.0	14.6
40°-50°	5499.8	22.1
50°-60°	6164.3	24.8
60°-70°	3640.9	14.6
70°-80°	1192.9	4.8
80°-90°	294.7	1.2
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°	24860.0	100.0
0°-180°	24860.0	100.0

Coefficient of Utilization

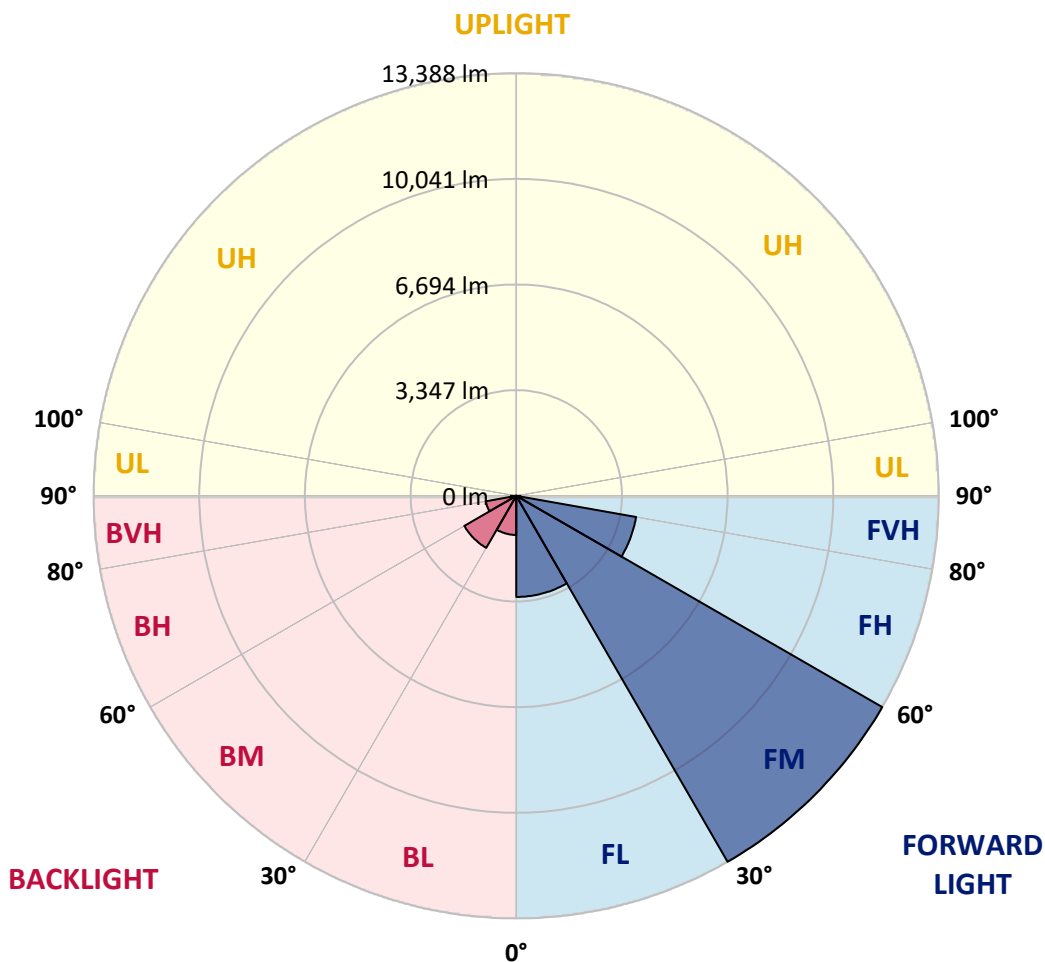


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3202.3	12.9			
FM (30°-60°)	13387.9	53.9			
FH (60°-80°)	3854.6	15.5			G2/5000
FVH (80°-90°)	129.8	0.5			G2/225
BL (0°-30°)	1239.1	5.0	B3/2500		
BM (30°-60°)	1902.1	7.7	B2/2500		
BH (60°-80°)	979.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	164.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0
2.5°	6331.6	6389.7	6364.0	6275.2	6206.8	6110.3	6002.7	5970.2	5856.6	5729.3	5576.3
5°	7333.7	7304.7	7262.8	7124.4	6978.3	6808.3	6538.3	6495.6	6242.7	5954.8	5650.7
7.5°	7904.4	7901.9	7877.1	7795.9	7662.7	7440.5	7115.0	7064.6	6682.7	6219.7	5748.1
10°	7821.6	7815.6	7856.6	7941.2	7981.3	7935.2	7661.0	7610.5	7141.5	6512.7	5860.8
12.5°	7350.8	7354.2	7420.0	7597.7	7839.5	8130.0	8085.6	8060.8	7617.4	6844.2	5997.5
15°	6984.3	6992.0	7044.1	7198.7	7484.1	8011.2	8343.6	8352.1	8077.9	7209.9	6157.3
17.5°	6823.7	6839.9	6863.8	6972.3	7233.8	7774.6	8405.1	8451.2	8481.1	7589.2	6311.1
20°	6874.9	6890.3	6897.2	6966.4	7180.8	7631.0	8362.4	8445.2	8790.4	7946.3	6464.9
22.5°	7104.8	7114.2	7118.4	7136.4	7303.0	7672.1	8334.2	8421.3	9014.2	8266.7	6581.1
25°	7485.8	7479.0	7451.6	7428.6	7540.5	7834.4	8399.1	8482.0	9196.2	8557.2	6657.1
27.5°	7942.0	7933.5	7880.5	7817.3	7881.4	8087.3	8586.2	8652.0	9359.4	8828.8	6695.5
30°	8489.7	8467.5	8367.5	8292.3	8317.1	8466.6	8894.6	8954.4	9611.4	9137.3	6733.1
32.5°	9122.7	9098.8	8954.4	8829.7	8829.7	8954.4	9212.4	9262.0	9825.0	9485.8	6793.8
35°	9915.6	9885.7	9697.7	9488.4	9429.5	9492.7	9645.6	9680.6	10209.5	9925.0	6904.0
37.5°	10850.2	10810.1	10566.6	10286.4	10157.4	10153.9	10264.2	10335.9	10823.8	10501.7	7091.1
40°	11787.5	11759.3	11546.5	11326.1	11073.2	10992.1	11162.1	11184.3	11626.8	11217.6	7330.3
42.5°	12511.9	12506.8	12467.5	12496.6	12237.7	12073.7	12206.9	12224.9	12607.6	11992.5	7584.9
45°	12894.7	12903.2	13093.8	13515.8	13611.5	13491.9	13557.7	13562.8	13728.5	12774.2	7818.2
47.5°	12588.0	12632.4	13114.3	14058.3	14841.8	15239.0	15129.7	15192.9	14815.3	13445.7	8001.0
50°	11392.7	11447.4	12267.6	13816.5	15415.9	16929.8	16872.5	16858.0	15691.8	13937.9	8100.1
52.5°	9912.2	9954.9	10631.5	12559.8	14994.7	17864.4	18389.9	18314.7	16471.0	14306.1	8118.9
55°	7657.5	7724.2	8372.6	10051.4	13291.1	17507.3	19505.6	19438.2	17181.0	14499.2	8096.7
57°	5443.9	5514.0	6158.2	7671.2	11180.9	16271.1	19616.7	19688.5	17564.6	14531.6	8121.4
57.5°	4857.8	4929.6	5567.8	7037.3	10523.0	15824.3	19521.0	19640.6	17633.8	14526.5	8135.1
60°	2446.0	2473.3	2880.0	3928.3	6652.0	12793.0	18272.8	18581.2	17696.1	14275.3	8194.1
62.5°	1520.7	1501.1	1488.3	1809.5	3236.3	8483.7	15697.0	16290.7	16502.6	13667.0	8051.4
65°	1337.1	1300.3	1159.4	1133.7	1429.3	4120.5	11820.8	12559.8	13952.4	12708.4	7711.4
67.5°	1255.9	1220.0	1061.1	965.4	966.3	1633.5	7338.9	8171.0	10869.0	11087.7	6909.1
70°	1172.2	1139.7	991.0	878.3	822.7	904.8	3376.4	4007.8	7085.1	8715.2	5774.5
72.5°	1064.5	1042.3	901.3	785.1	726.2	677.5	1292.6	1526.7	4101.7	5853.1	4010.3
75°	951.7	931.2	810.8	699.7	627.9	533.1	727.9	784.3	2083.8	2994.5	1974.4
77.5°	827.9	815.9	721.1	618.5	561.3	441.7	515.2	542.5	893.6	1284.1	990.2
80°	658.7	681.8	630.5	551.1	498.1	353.7	364.8	382.7	520.3	627.1	562.2
82.5°	428.9	469.0	493.8	447.7	410.1	278.5	262.3	270.0	339.2	382.7	244.3
85°	178.6	200.8	324.7	293.0	272.5	203.3	176.0	179.4	210.2	217.9	100.0
87.5°	79.5	84.6	142.7	134.1	115.3	70.1	75.2	82.0	111.9	105.9	38.4
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°	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0	5514.0
2.5°	5519.1	5447.3	5324.3	5188.5	5077.4	4988.5	4898.8	4837.3	4765.6	4727.1	4707.5
5°	5523.4	5382.4	5123.5	4857.8	4620.3	4403.3	4196.6	4037.7	3889.0	3808.7	3786.5
7.5°	5541.3	5329.4	4910.8	4473.4	4051.3	3666.0	3368.7	3182.5	3048.3	2988.5	2971.4
10°	5555.8	5267.1	4647.7	4000.1	3425.9	3035.5	2804.8	2700.6	2654.5	2646.8	2639.1
12.5°	5590.0	5203.0	4370.9	3506.2	2939.8	2669.8	2589.5	2582.7	2595.5	2614.3	2614.3
15°	5643.8	5139.8	4054.7	3082.5	2630.5	2535.7	2551.9	2589.5	2624.6	2653.6	2657.9
17.5°	5683.1	5062.0	3714.7	2743.3	2465.7	2491.3	2549.4	2602.3	2638.2	2666.4	2669.0
20°	5711.3	4941.6	3351.6	2484.4	2370.8	2450.3	2522.9	2569.9	2594.7	2622.9	2627.1
22.5°	5696.8	4780.1	3029.5	2299.1	2293.9	2390.5	2459.7	2516.1	2497.3	2469.9	2487.9
25°	5626.7	4558.0	2698.0	2160.6	2212.8	2310.2	2395.6	2358.0	2294.8	2282.8	2289.7
27.5°	5502.0	4274.3	2391.3	2032.5	2118.8	2235.8	2230.7	2193.1	2170.9	2155.5	2164.9
30°	5367.9	3966.7	2123.1	1920.6	2014.6	2111.1	2091.4	2090.6	2068.4	2043.6	2055.6
32.5°	5235.5	3657.5	1910.3	1828.3	1936.0	1948.8	1991.5	2004.3	1960.7	1908.6	1905.2
35°	5120.1	3365.3	1748.9	1744.6	1841.1	1842.8	1905.2	1887.3	1778.8	1724.9	1724.9
37.5°	5033.8	3073.9	1625.8	1669.4	1716.4	1760.8	1792.4	1718.1	1700.2	1670.3	1669.4
40°	4996.2	2817.6	1548.9	1612.2	1628.4	1684.8	1603.6	1632.7	1641.2	1625.8	1625.8
42.5°	4956.9	2594.7	1482.3	1568.6	1566.0	1558.3	1517.3	1554.9	1589.1	1589.9	1587.4
45°	4917.6	2402.4	1423.3	1475.5	1511.3	1428.5	1436.2	1476.3	1524.2	1541.2	1541.2
47.5°	4874.1	2250.4	1369.5	1377.2	1432.7	1377.2	1371.2	1402.0	1458.4	1485.7	1491.7
50°	4778.4	2113.7	1308.0	1290.9	1306.3	1325.1	1330.2	1344.7	1407.1	1450.7	1460.9
52.5°	4646.0	1991.5	1229.4	1211.5	1211.5	1282.4	1306.3	1310.6	1363.5	1415.7	1425.9
55°	4535.7	1913.7	1148.2	1144.8	1141.4	1237.1	1278.1	1284.9	1321.7	1362.7	1367.8
57°	4543.4	1907.8	1085.9	1089.3	1088.4	1191.0	1251.6	1266.1	1284.9	1320.0	1326.0
57.5°	4547.7	1912.0	1072.2	1073.9	1073.1	1178.1	1243.9	1260.2	1274.7	1311.4	1317.4
60°	4611.8	1923.1	1016.7	997.9	1002.2	1109.8	1200.4	1220.9	1230.3	1279.0	1286.7
62.5°	4516.9	1873.6	972.2	927.0	927.0	1038.0	1139.7	1172.2	1186.7	1252.5	1265.3
65°	4241.8	1734.3	920.1	846.7	855.2	966.3	1067.1	1120.1	1142.3	1224.3	1238.0
67.5°	3817.2	1572.9	864.6	774.9	783.4	891.1	991.9	1049.1	1084.2	1193.5	1204.6
70°	3264.5	1375.5	789.4	698.9	709.1	809.1	903.0	968.0	1020.1	1164.5	1167.9
72.5°	2406.7	1127.7	684.3	615.1	626.2	713.4	813.3	888.5	958.6	1091.9	1090.1
75°	1431.0	881.7	568.1	530.6	538.2	619.4	732.2	823.6	928.7	1063.7	1079.9
77.5°	868.0	663.8	463.1	444.3	453.7	536.5	674.1	771.5	915.9	1003.0	997.9
80°	524.6	474.2	369.9	358.0	367.4	458.8	623.7	732.2	800.5	856.9	856.9
82.5°	274.2	289.6	271.7	262.3	275.1	372.5	567.3	639.1	707.4	607.4	567.3
85°	111.9	151.2	164.9	164.0	171.7	258.0	489.5	546.8	456.2	433.2	443.4
87.5°	37.6	64.1	80.3	69.2	72.6	162.3	339.2	264.0	313.5	218.7	207.6
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)