

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: P318507

Luminaire Tested: **GLEON-SA3A-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10461 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

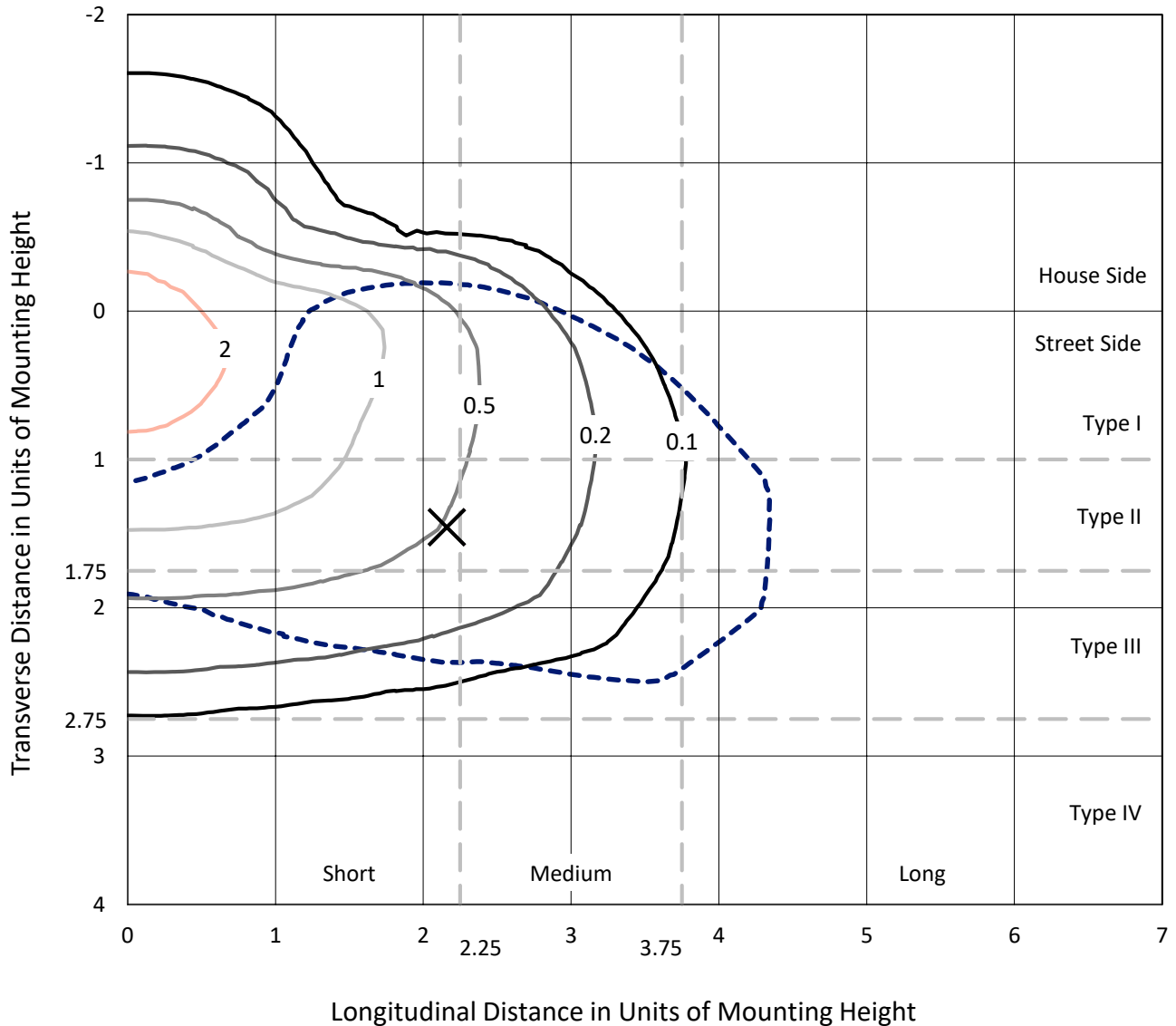
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

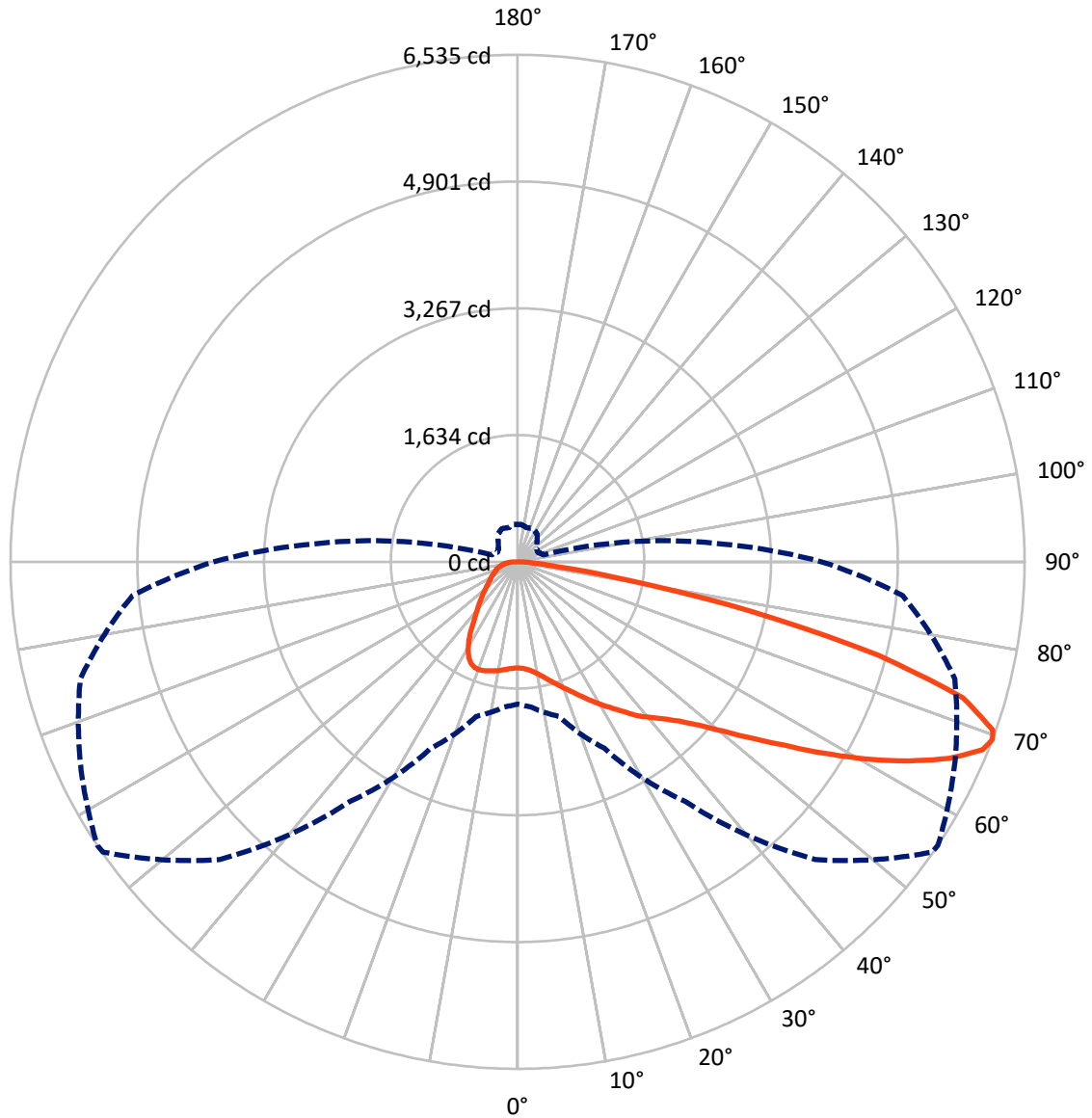
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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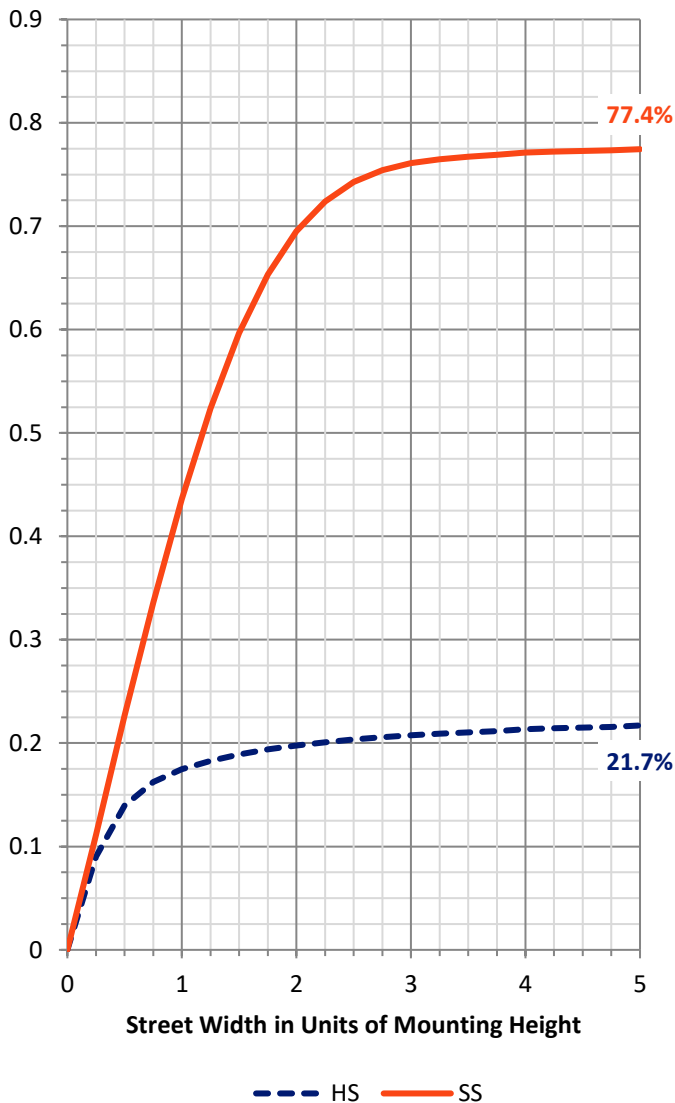
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.6	0.0	2329.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8131.4	0.0	8131.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	10461.0	0.0	10461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.3
10°-20°	431.9	4.1
20°-30°	754.0	7.2
30°-40°	1083.1	10.4
40°-50°	1498.9	14.3
50°-60°	2196.1	21.0
60°-70°	2677.4	25.6
70°-80°	1480.3	14.2
80°-90°	205.0	2.0
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°	10461.0	100.0
0°-180°	10461.0	100.0



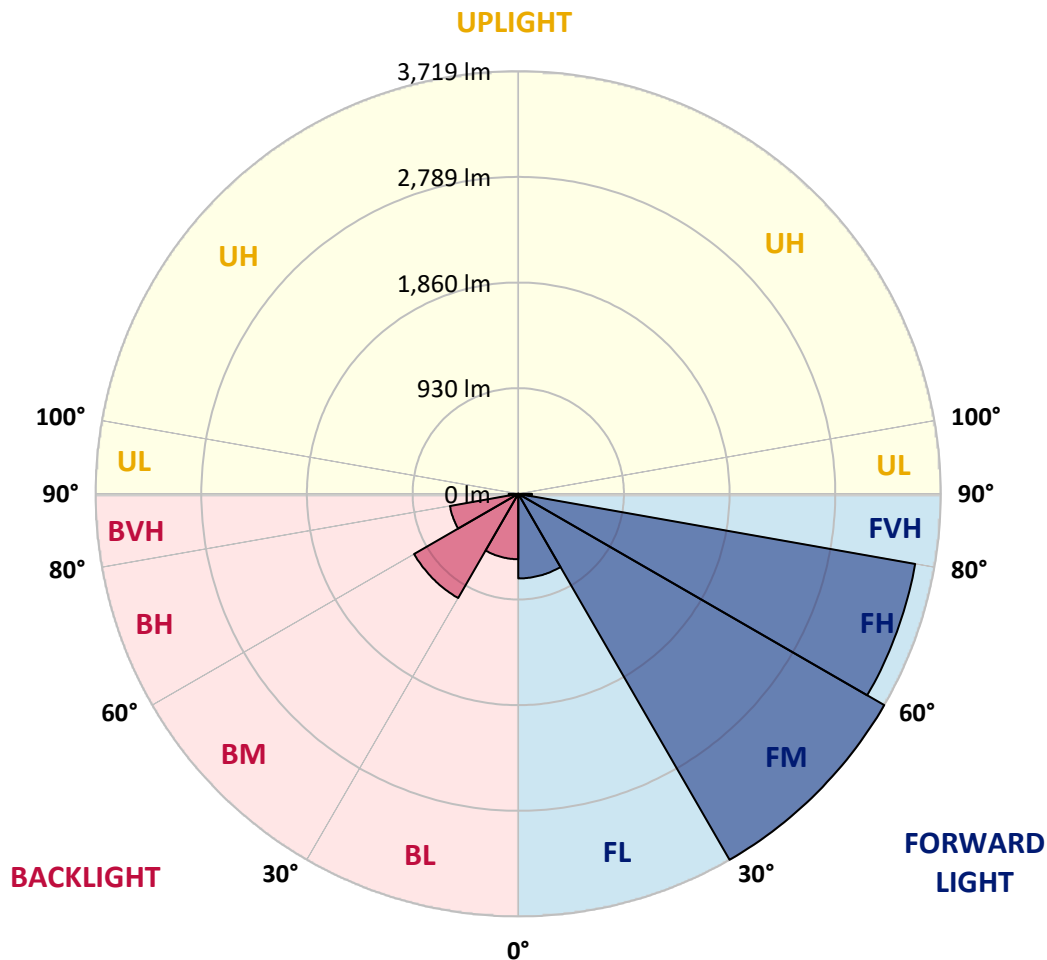
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.5	7.1			
FM (30°-60°)	3719.3	35.6			
FH (60°-80°)	3546.8	33.9			G2/5000
FVH (80°-90°)	120.8	1.2			G2/225
BL (0°-30°)	575.7	5.5	B2/1000		
BM (30°-60°)	1058.8	10.1	B2/2500		
BH (60°-80°)	610.9	5.8	B2/1000		G2/1000
BVH (80°-90°)	84.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1376.3	1377.7	1376.6	1379.5	1376.3	1378.4	1376.6	1376.6	1375.5	1372.3	1368.7
5°	1397.9	1400.8	1399.0	1401.9	1397.9	1398.6	1395.4	1395.4	1392.1	1385.3	1378.1
7.5°	1431.8	1435.0	1433.6	1436.4	1431.0	1431.0	1426.7	1426.4	1419.9	1408.7	1400.4
10°	1472.1	1476.5	1475.0	1479.3	1475.0	1476.5	1472.1	1472.1	1463.5	1447.6	1437.2
12.5°	1530.9	1536.3	1532.3	1531.9	1530.1	1533.0	1529.4	1528.7	1520.8	1499.2	1484.7
15°	1609.4	1615.2	1606.9	1606.2	1596.1	1595.0	1595.0	1593.9	1588.9	1562.9	1539.2
17.5°	1699.9	1701.7	1694.5	1682.9	1670.0	1661.7	1660.6	1663.5	1663.5	1633.2	1595.4
20°	1788.5	1791.8	1786.0	1773.0	1756.5	1744.2	1735.6	1741.3	1741.0	1704.9	1651.2
22.5°	1885.1	1892.7	1884.0	1867.5	1848.0	1834.3	1819.2	1824.2	1824.6	1780.2	1706.0
25°	2010.2	2003.3	1997.9	1974.5	1946.7	1932.7	1918.6	1923.7	1922.2	1861.3	1762.6
27.5°	2120.8	2122.2	2115.0	2090.2	2058.1	2027.1	2026.4	2029.6	2024.2	1945.7	1815.9
30°	2249.5	2250.2	2240.1	2217.7	2182.8	2142.8	2133.4	2138.8	2127.3	2025.7	1872.1
32.5°	2377.4	2381.0	2369.8	2342.8	2314.7	2266.0	2247.3	2250.9	2222.1	2107.5	1930.2
35°	2489.5	2494.5	2490.9	2472.9	2442.3	2400.4	2378.1	2375.9	2340.3	2207.6	2006.9
37.5°	2603.7	2608.4	2604.4	2589.3	2577.0	2532.7	2520.8	2520.8	2458.8	2310.0	2104.6
40°	2721.2	2728.4	2723.7	2702.8	2692.4	2672.2	2643.7	2636.9	2569.8	2432.9	2263.9
42.5°	2830.4	2839.7	2858.5	2846.2	2825.0	2827.9	2770.6	2766.9	2717.9	2614.5	2463.9
45°	2985.3	2999.0	3030.7	3021.4	3017.0	3001.2	2933.1	2929.8	2911.1	2858.8	2712.2
47.5°	3154.4	3173.1	3230.4	3232.2	3278.7	3248.8	3156.2	3145.0	3149.3	3151.5	3015.2
50°	3310.0	3330.6	3424.6	3469.0	3578.5	3585.0	3436.9	3426.8	3443.7	3493.5	3368.4
52.5°	3434.4	3460.3	3577.8	3714.7	3902.5	3955.8	3782.5	3774.9	3787.5	3873.3	3767.7
55°	3525.5	3553.6	3681.6	3931.0	4230.8	4324.8	4180.3	4173.1	4181.1	4290.2	4202.0
57.5°	3546.8	3553.6	3739.2	4076.5	4507.9	4733.9	4667.2	4652.8	4613.9	4709.0	4681.3
60°	3447.0	3474.4	3691.7	4127.7	4722.3	5137.1	5176.0	5158.0	5048.8	5126.7	5104.3
62.5°	3244.4	3293.5	3514.0	4049.9	4806.3	5466.5	5675.2	5653.5	5465.4	5515.9	5408.5
65°	2913.6	2934.5	3166.2	3781.4	4699.6	5677.3	6120.2	6109.4	5872.7	5793.7	5464.7
67.5°	2321.9	2361.2	2557.9	3220.3	4263.2	5652.5	6464.4	6463.3	6138.6	5896.8	5265.4
69°	1834.3	1875.0	2062.4	2652.7	3772.4	5425.1	6522.0	6534.7	6213.6	5834.1	4980.7
70°	1462.4	1509.6	1638.3	2234.3	3336.7	5125.2	6474.1	6496.8	6199.1	5730.7	4718.0
72.5°	622.4	660.6	752.1	1151.8	2033.6	3827.2	5919.5	6005.3	5865.1	5244.9	3899.2
75°	271.7	283.6	325.1	469.6	902.7	2083.0	4637.3	4795.9	5015.0	4433.3	2904.6
77.5°	198.9	204.0	226.7	275.7	405.1	786.7	2982.1	3074.3	3616.7	3226.1	1781.7
80°	153.9	157.5	175.1	202.5	264.5	318.2	1360.1	1439.3	2033.6	1657.0	742.0
82.5°	122.5	125.0	137.3	149.2	182.7	192.8	451.5	500.9	750.7	457.7	196.4
85°	113.9	116.8	121.1	108.8	117.1	113.2	195.3	204.3	226.7	179.8	82.2
87.5°	51.5	60.9	120.0	84.7	62.3	49.7	80.0	83.6	94.1	94.4	36.4
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°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1370.9	1369.8	1371.6	1367.3	1372.7	1372.3	1370.5	1371.2	1374.8	1374.5	1374.8
5°	1379.2	1378.4	1380.6	1377.3	1383.8	1386.0	1386.4	1389.6	1393.6	1394.6	1394.6
7.5°	1400.1	1400.1	1401.1	1396.8	1401.1	1400.8	1399.0	1402.2	1406.2	1406.5	1406.2
10°	1436.1	1436.4	1434.6	1423.5	1419.9	1410.1	1401.1	1401.5	1406.5	1410.5	1411.6
12.5°	1481.5	1480.1	1472.1	1451.6	1436.4	1416.6	1407.3	1406.9	1411.9	1415.2	1416.3
15°	1533.4	1529.4	1508.9	1475.4	1448.7	1429.2	1414.1	1410.5	1407.6	1404.0	1404.4
17.5°	1582.4	1573.4	1539.2	1492.7	1464.6	1438.6	1409.4	1386.0	1369.8	1360.4	1357.5
20°	1632.1	1614.5	1565.1	1508.9	1473.2	1426.0	1369.8	1322.2	1292.7	1279.0	1276.4
22.5°	1677.5	1649.1	1589.2	1525.8	1466.4	1383.5	1295.2	1226.0	1184.9	1166.5	1168.0
25°	1721.9	1682.2	1614.5	1537.7	1431.8	1308.5	1191.4	1106.3	1058.8	1038.2	1037.5
27.5°	1760.8	1715.7	1641.9	1528.0	1367.3	1201.8	1068.5	985.6	946.0	928.3	925.4
30°	1805.5	1757.9	1678.3	1490.9	1272.8	1078.6	948.5	890.1	862.0	844.4	841.1
32.5°	1859.9	1815.2	1708.2	1423.5	1152.1	949.9	854.8	814.1	788.5	768.7	765.1
35°	1939.2	1890.9	1715.7	1326.9	1019.5	848.3	786.0	744.2	709.6	684.0	681.5
37.5°	2038.6	1985.7	1698.4	1201.8	890.8	782.4	728.7	677.1	632.1	596.1	590.3
40°	2182.1	2102.1	1650.5	1057.7	796.1	731.6	672.8	614.1	558.2	516.1	507.8
42.5°	2354.3	2238.6	1577.0	914.3	726.5	680.0	617.3	544.5	491.2	461.3	457.0
45°	2573.4	2380.6	1475.0	788.9	658.0	628.5	557.5	490.5	457.3	435.3	431.7
47.5°	2823.5	2539.9	1368.0	686.9	600.0	580.2	509.6	466.3	440.0	422.7	419.5
50°	3130.9	2719.7	1254.5	603.3	541.6	522.2	486.9	453.0	432.1	418.8	415.5
52.5°	3477.6	2922.6	1172.7	537.3	493.4	479.3	475.0	445.8	428.8	418.8	415.5
55°	3851.0	3129.1	1084.4	481.8	451.5	455.5	467.0	446.5	435.0	422.7	418.0
57.5°	4224.7	3342.5	986.0	435.0	418.4	437.9	461.6	447.9	438.2	426.3	422.0
60°	4520.2	3477.6	833.5	395.7	392.1	418.4	448.7	437.1	424.5	424.9	424.2
62.5°	4658.2	3470.4	665.2	360.7	365.8	392.1	427.8	420.2	409.7	423.8	424.9
65°	4580.7	3297.4	517.9	329.0	337.7	364.7	406.1	411.9	415.5	442.5	446.1
67.5°	4255.7	2960.8	401.1	301.3	312.1	346.0	408.3	448.7	453.4	481.8	481.5
69°	3919.4	2645.1	348.5	286.9	299.5	350.6	436.4	472.1	454.4	484.7	480.4
70°	3637.6	2395.4	320.4	277.1	293.7	358.9	455.2	471.7	449.0	475.0	467.8
72.5°	2801.5	1723.3	271.7	259.1	274.2	343.4	460.6	461.3	436.4	441.5	429.2
75°	1921.5	1089.0	237.1	234.6	244.7	309.6	443.3	440.7	403.6	396.4	386.3
77.5°	1059.5	553.2	201.4	211.2	218.0	274.2	402.9	399.3	368.7	353.5	349.9
80°	408.7	242.2	170.1	187.8	192.1	237.5	353.2	349.9	324.3	304.9	299.5
82.5°	154.2	126.9	140.5	162.5	161.1	196.0	299.1	297.3	272.4	244.0	235.3
85°	71.4	76.0	111.4	134.1	123.6	145.2	239.3	242.5	212.3	178.4	178.4
87.5°	30.3	42.5	78.9	101.3	83.2	98.0	175.5	167.6	153.9	106.7	100.2
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)