

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: LUMARK

Report Number: P395123

Luminaire Tested: **LAS100S-T3-Switch-9**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LAS100S-T3-Switch-9
Description: AREA SITE LARGE HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 9
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8286 lumens
Efficiency: N/A
Efficacy: 172.6 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

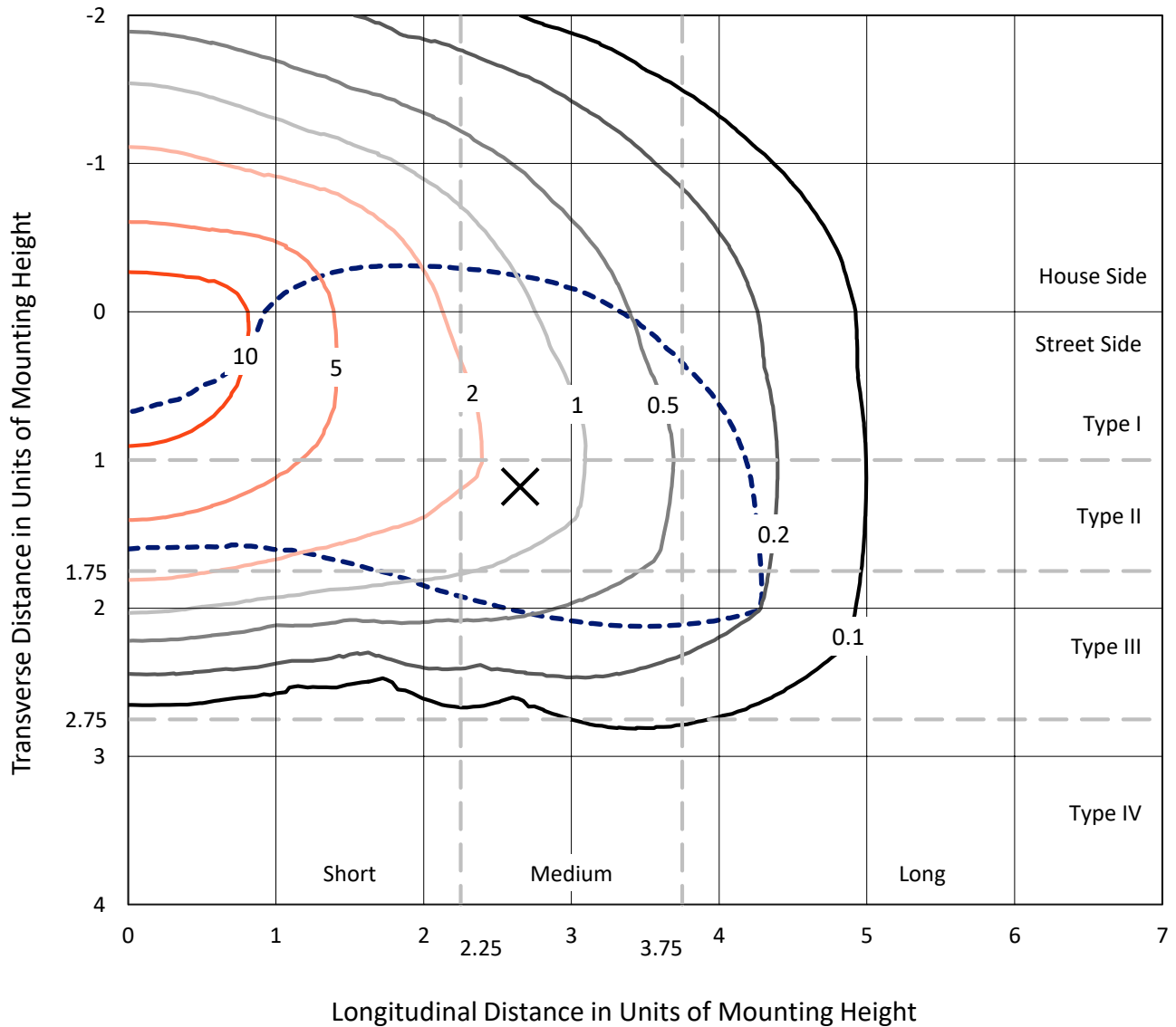
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

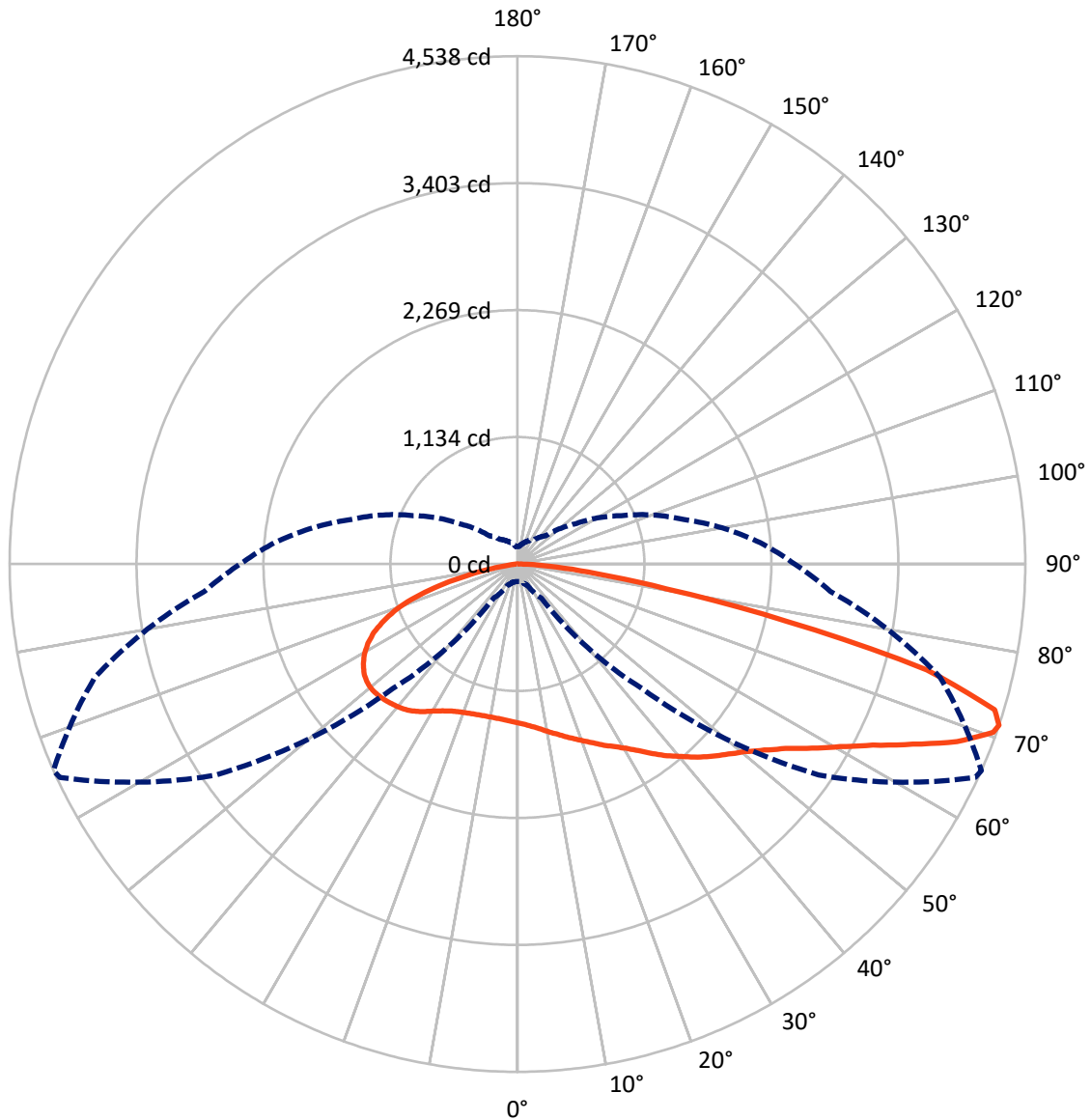
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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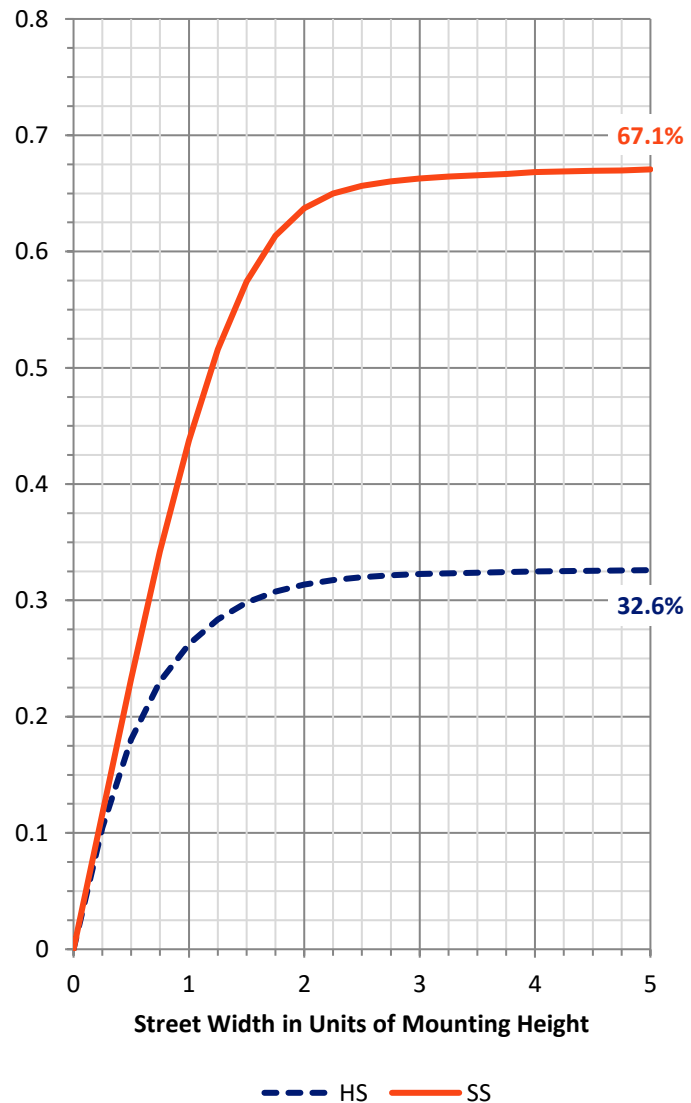
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2718.7	0.0	2718.7
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	5567.3	0.0	5567.3
	% Fixture	67.2	0.0	67.2
Total	Lumens	8286.0	0.0	8286.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.6
10°-20°	412.1	5.0
20°-30°	710.7	8.6
30°-40°	1067.4	12.9
40°-50°	1439.8	17.4
50°-60°	1763.0	21.3
60°-70°	1664.3	20.1
70°-80°	963.2	11.6
80°-90°	129.1	1.6
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°	8286.0	100.0
0°-180°	8286.0	100.0



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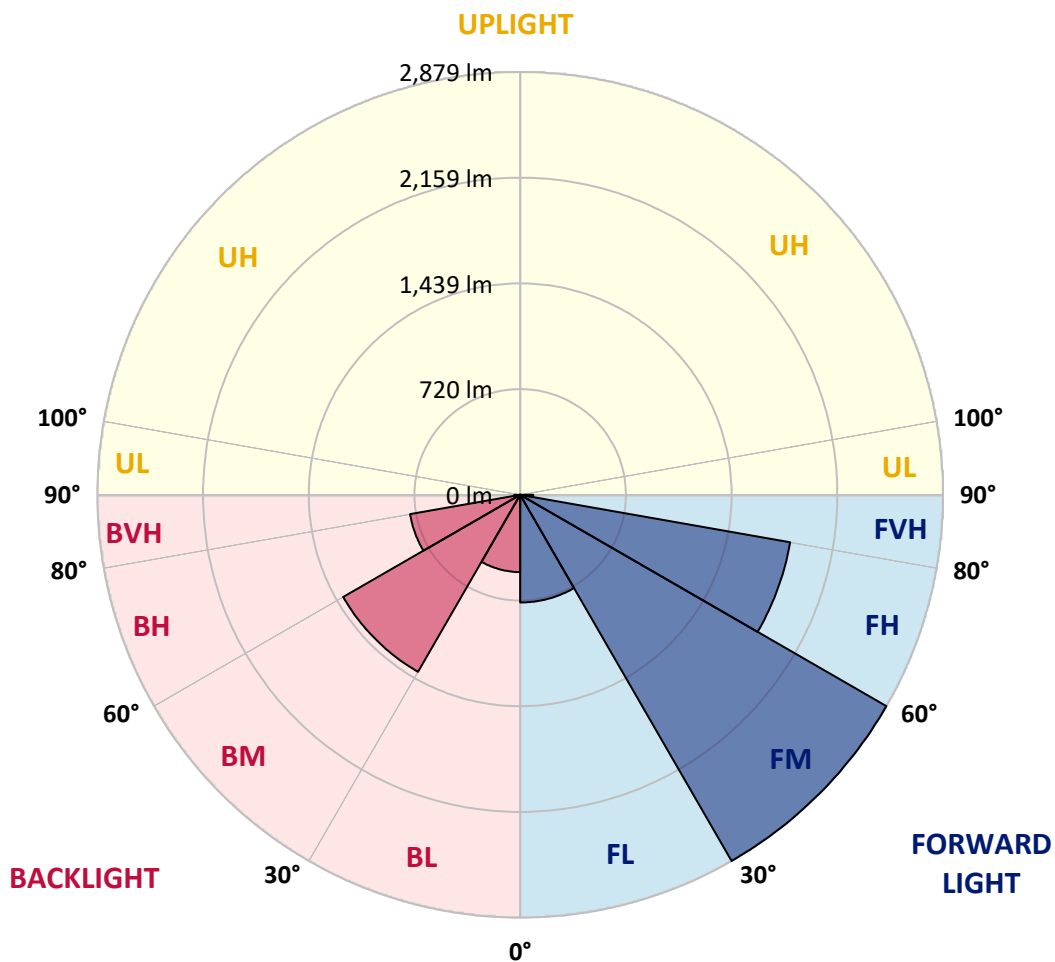
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.2	8.8			
FM	(30°-60°)	2878.6	34.7			
FH	(60°-80°)	1866.4	22.5			G2/5000
FVH	(80°-90°)	89.1	1.1			G1/100
BL	(0°-30°)	525.9	6.3	B2/1000		
BM	(30°-60°)	1391.7	16.8	B2/2500		
BH	(60°-80°)	761.2	9.2	B2/1000		G2/1000
BVH	(80°-90°)	40.0	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1457.2	1456.5	1457.0	1455.3	1451.1	1449.4	1445.1	1438.0	1437.7	1431.5	1427.5
5°	1495.1	1494.4	1492.3	1489.6	1485.1	1483.0	1474.9	1461.5	1460.3	1451.5	1440.8
7.5°	1530.1	1529.9	1529.4	1524.4	1519.6	1514.2	1506.3	1492.5	1488.7	1476.1	1459.6
10°	1571.8	1569.6	1568.0	1563.7	1558.9	1552.0	1540.3	1524.6	1524.4	1507.3	1483.9
12.5°	1612.7	1613.7	1610.4	1606.3	1597.0	1590.8	1577.7	1563.2	1558.0	1540.8	1513.2
15°	1658.2	1658.7	1653.0	1649.6	1643.7	1634.6	1616.8	1600.1	1599.4	1577.5	1546.5
17.5°	1712.7	1715.1	1708.2	1703.7	1693.7	1680.1	1661.3	1643.2	1641.1	1618.9	1585.6
20°	1773.2	1770.4	1768.9	1759.9	1750.6	1732.7	1712.3	1691.6	1687.3	1663.2	1628.7
22.5°	1836.6	1835.8	1835.6	1823.2	1813.0	1787.7	1761.6	1740.6	1735.8	1711.8	1674.2
25°	1917.8	1920.1	1908.5	1898.7	1882.0	1849.4	1820.4	1790.4	1793.2	1766.3	1730.4
27.5°	2019.9	2019.9	2014.4	1999.0	1972.0	1926.3	1887.5	1848.7	1847.3	1825.4	1788.0
30°	2153.0	2152.1	2148.0	2133.2	2086.6	2033.5	1963.5	1917.5	1910.1	1881.1	1862.3
32.5°	2223.0	2226.6	2233.5	2230.4	2209.0	2157.5	2066.1	1989.9	1986.8	1954.2	1934.4
35°	2267.8	2271.4	2280.6	2289.9	2277.8	2244.9	2164.0	2089.0	2080.2	2031.8	2014.4
37.5°	2324.0	2324.9	2330.4	2343.3	2342.3	2317.3	2255.4	2181.8	2173.5	2118.0	2104.0
40°	2391.6	2391.8	2396.1	2405.4	2405.2	2382.3	2343.7	2274.5	2259.9	2214.0	2192.8
42.5°	2469.9	2463.5	2469.5	2477.8	2477.8	2460.4	2432.1	2364.7	2359.5	2305.2	2276.1
45°	2541.9	2539.2	2543.0	2547.6	2549.0	2540.4	2515.4	2456.8	2448.7	2391.4	2350.9
47.5°	2615.0	2612.3	2608.3	2624.0	2630.7	2641.1	2615.7	2546.9	2538.0	2461.6	2413.7
50°	2669.7	2668.1	2668.3	2685.0	2712.6	2740.4	2734.5	2651.4	2634.2	2534.2	2469.9
52.5°	2667.6	2665.4	2671.1	2711.1	2775.4	2845.2	2865.4	2779.5	2762.1	2624.7	2522.3
55°	2546.1	2552.3	2581.9	2680.0	2805.9	2958.8	3026.9	2940.2	2908.1	2731.1	2586.6
57.5°	2335.4	2323.5	2390.6	2535.4	2761.2	3035.0	3190.2	3123.6	3105.0	2855.9	2647.8
60°	1965.4	1963.5	2083.7	2279.0	2617.8	3060.2	3363.3	3344.5	3311.7	3003.6	2703.1
62.5°	1458.4	1465.3	1557.0	1868.0	2352.8	2983.1	3536.4	3598.4	3564.3	3177.8	2756.2
65°	861.3	863.4	962.5	1256.8	1905.6	2774.2	3655.0	3913.6	3881.5	3401.9	2808.3
67.5°	361.2	382.6	448.4	644.3	1303.7	2389.2	3656.7	4231.7	4235.5	3658.6	2853.3
70°	177.2	179.8	206.7	263.1	543.1	1861.6	3436.7	4487.7	4508.4	3880.3	2844.7
71°	157.2	157.4	168.8	208.8	373.1	1574.2	3285.5	4512.2	4537.7	3908.9	2806.4
72.5°	139.5	139.3	146.2	162.9	241.7	1102.9	2913.5	4422.9	4458.7	3823.8	2692.1
75°	112.2	112.9	117.9	126.9	168.1	501.0	2120.2	3730.0	3778.8	3237.9	2243.5
77.5°	85.5	87.4	93.8	100.7	125.7	303.1	1343.2	2541.6	2460.4	2058.0	1606.8
80°	64.1	64.8	69.1	76.7	92.4	190.0	754.3	1316.0	1350.6	1085.8	870.3
82.5°	44.5	46.0	49.3	53.1	59.8	120.2	457.4	712.4	707.2	465.5	339.8
85°	26.4	27.6	28.8	31.7	34.1	61.4	253.1	358.6	349.5	120.2	71.4
87.5°	9.8	10.2	11.4	10.7	12.4	20.2	86.9	89.8	87.6	20.7	15.2
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°	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1422.7	1421.1	1414.6	1407.2	1400.8	1396.1	1390.3	1386.1	1384.6	1380.3	1381.3
5°	1432.0	1426.8	1411.1	1396.1	1380.6	1367.5	1355.8	1346.8	1340.1	1335.1	1338.9
7.5°	1447.0	1437.2	1414.1	1388.4	1363.4	1342.2	1323.7	1306.0	1293.9	1289.9	1287.5
10°	1468.0	1454.6	1420.3	1383.9	1348.9	1317.2	1286.3	1264.9	1244.4	1236.0	1231.3
12.5°	1494.4	1475.1	1429.9	1383.4	1336.3	1290.8	1244.6	1212.2	1184.6	1175.6	1169.8
15°	1526.1	1501.8	1445.8	1386.1	1322.7	1256.3	1199.6	1155.6	1122.0	1109.4	1106.0
17.5°	1560.1	1532.0	1465.1	1390.8	1308.9	1223.7	1154.4	1101.0	1064.1	1049.6	1049.1
20°	1602.0	1570.4	1489.6	1400.3	1295.1	1191.5	1109.4	1051.3	1013.4	994.8	991.5
22.5°	1650.4	1614.2	1523.0	1411.3	1283.7	1158.9	1066.7	1000.3	961.5	944.8	941.0
25°	1701.3	1662.0	1563.0	1429.4	1273.7	1131.7	1026.7	958.2	918.2	899.6	895.8
27.5°	1764.9	1721.6	1610.1	1457.0	1268.7	1106.3	992.5	918.6	878.2	856.5	855.1
30°	1836.3	1793.9	1673.0	1489.4	1270.6	1085.8	962.9	883.9	840.1	819.1	813.9
32.5°	1911.6	1871.3	1739.6	1533.9	1275.6	1067.0	932.9	848.6	802.9	780.5	777.2
35°	1994.9	1956.8	1810.1	1574.2	1277.9	1043.2	897.7	813.4	766.7	747.2	743.4
37.5°	2084.4	2040.6	1882.3	1606.1	1271.8	1013.2	863.2	781.7	737.0	719.6	717.4
40°	2170.9	2122.8	1940.4	1628.2	1261.3	983.6	832.7	754.1	714.6	699.8	697.2
42.5°	2246.8	2193.0	1984.9	1645.8	1249.9	957.2	807.4	733.9	698.9	686.0	683.6
45°	2317.1	2254.2	2029.0	1661.5	1238.9	933.4	788.6	718.9	686.5	675.0	673.6
47.5°	2373.3	2309.7	2064.4	1672.3	1223.4	914.6	771.7	705.8	677.0	668.1	667.4
50°	2429.2	2358.3	2094.7	1673.9	1206.3	896.0	757.0	693.9	668.4	662.4	662.4
52.5°	2478.5	2401.1	2115.9	1662.5	1182.2	875.1	738.9	680.5	658.4	656.7	657.2
55°	2526.8	2440.9	2121.3	1635.6	1154.4	854.1	718.9	662.4	642.9	644.1	645.0
57.5°	2567.1	2458.7	2106.1	1589.6	1120.8	824.6	691.7	633.9	611.2	611.9	614.1
60°	2589.9	2455.9	2068.2	1532.7	1072.7	785.5	651.5	588.1	555.8	549.8	552.9
62.5°	2602.1	2437.1	2004.2	1457.7	1016.3	733.9	587.2	513.6	474.3	477.7	475.3
65°	2601.4	2403.5	1918.9	1366.5	939.6	649.1	501.9	425.0	398.6	390.0	389.3
67.5°	2584.7	2340.2	1797.0	1240.1	836.3	540.5	400.0	339.1	312.2	311.2	308.1
70°	2520.9	2238.5	1632.5	1097.0	687.7	404.1	305.5	255.5	231.4	201.9	200.7
71°	2476.6	2178.0	1536.5	1023.9	620.8	357.2	269.1	228.6	191.2	155.7	155.7
72.5°	2346.1	2065.6	1404.1	909.4	506.0	292.2	222.2	183.6	130.2	122.2	122.6
75°	2037.1	1766.1	1148.9	682.9	342.2	200.5	155.0	120.2	89.3	97.1	99.8
77.5°	1531.8	1348.2	853.9	429.8	194.8	127.9	107.2	79.1	71.0	80.0	79.8
80°	877.9	837.2	526.5	229.8	85.0	80.5	75.7	57.6	54.3	60.7	60.7
82.5°	431.9	464.1	287.6	85.7	39.1	46.9	48.6	40.2	37.9	41.0	41.9
85°	141.7	204.5	106.0	30.7	22.4	23.3	21.4	20.7	20.5	21.2	21.0
87.5°	20.5	36.9	15.2	11.9	9.3	8.1	6.7	6.2	5.2	4.5	4.3
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)