

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: P395100

Luminaire Tested: **LAS45S-T4-Switch-6**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LAS45S-T4-Switch-6
Description: AREA SITE SMALL HOUSING, TYPE IV, WATTAGE SWITCH ON POSTION 6
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11338 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

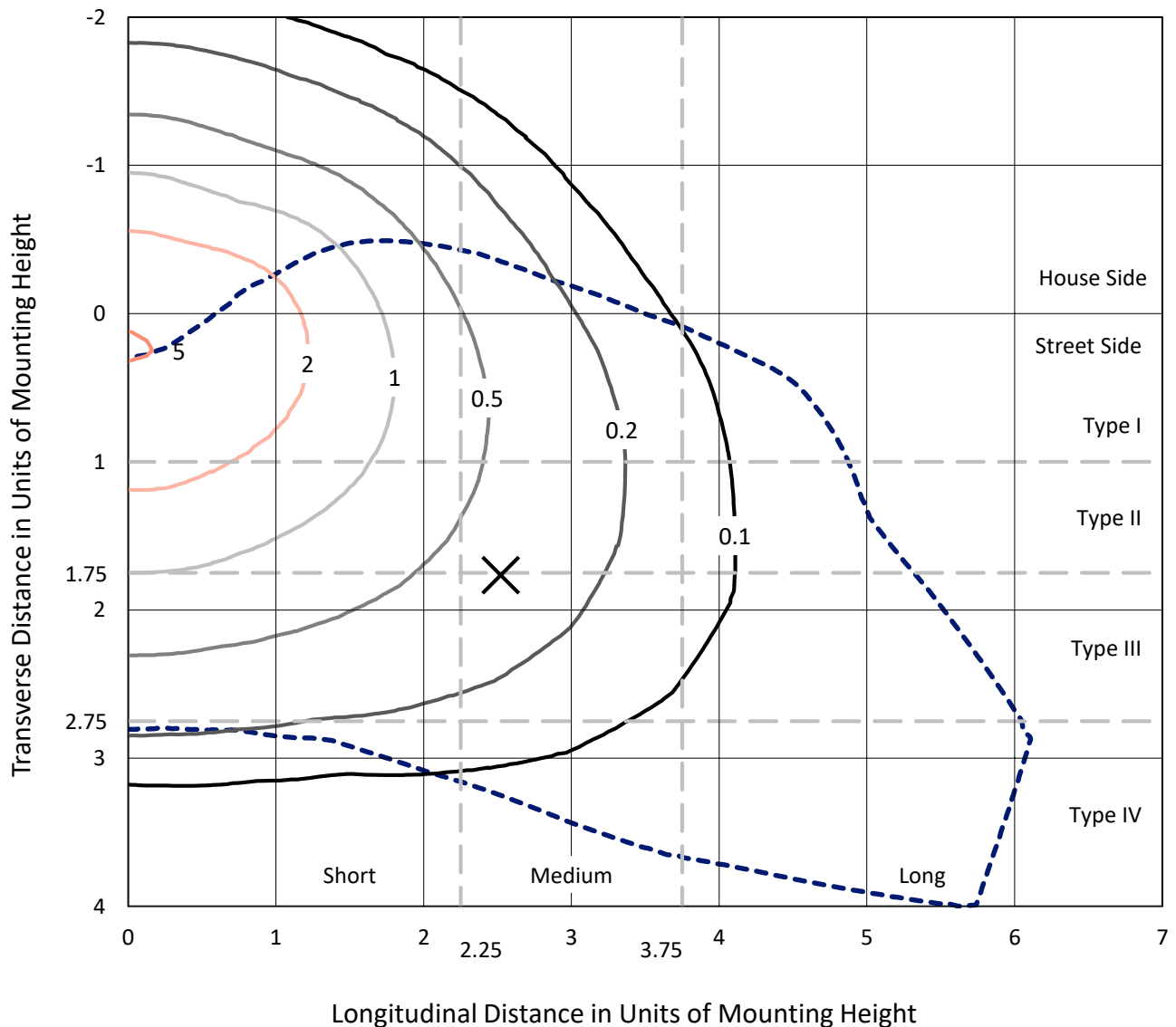
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

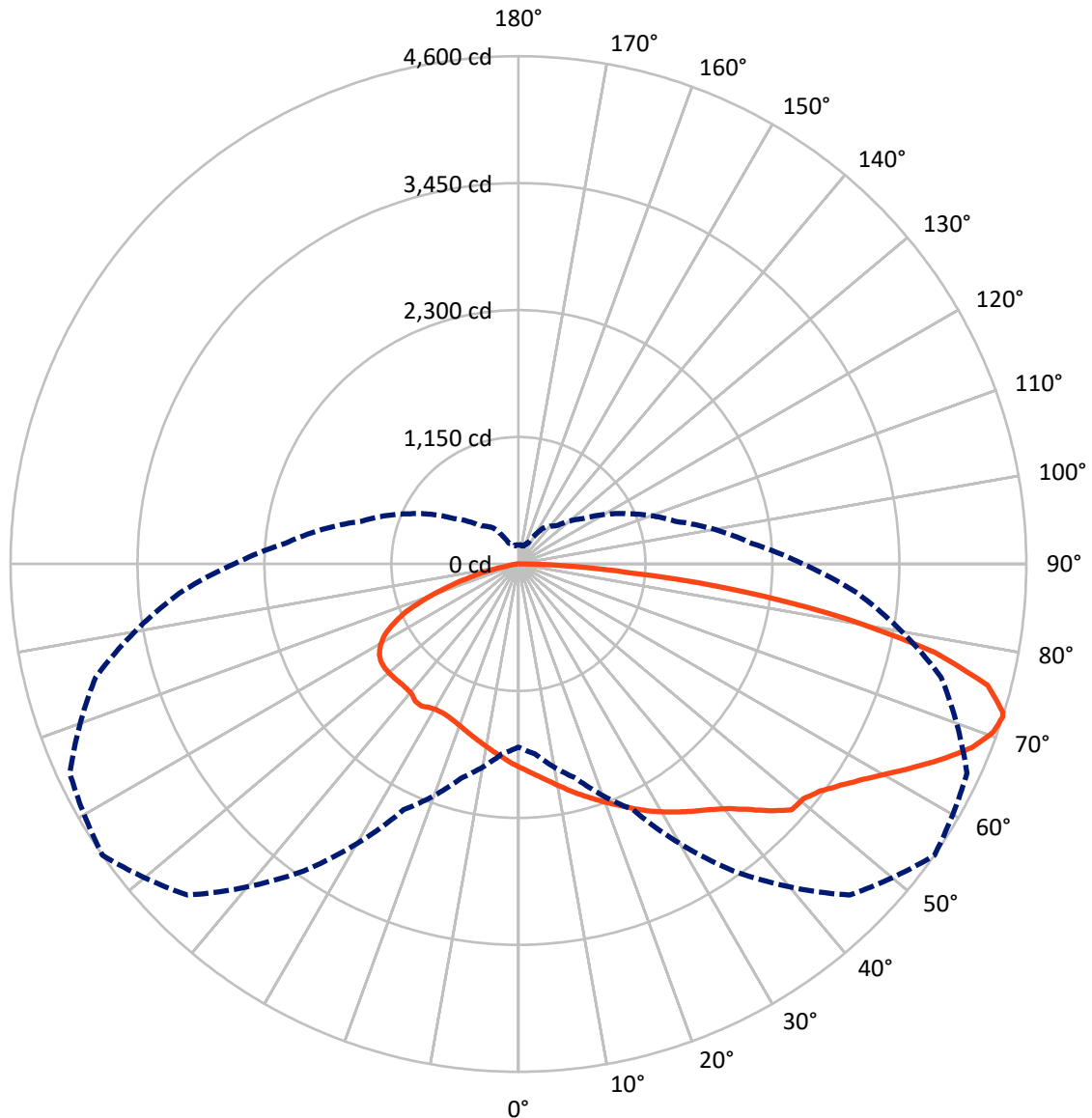
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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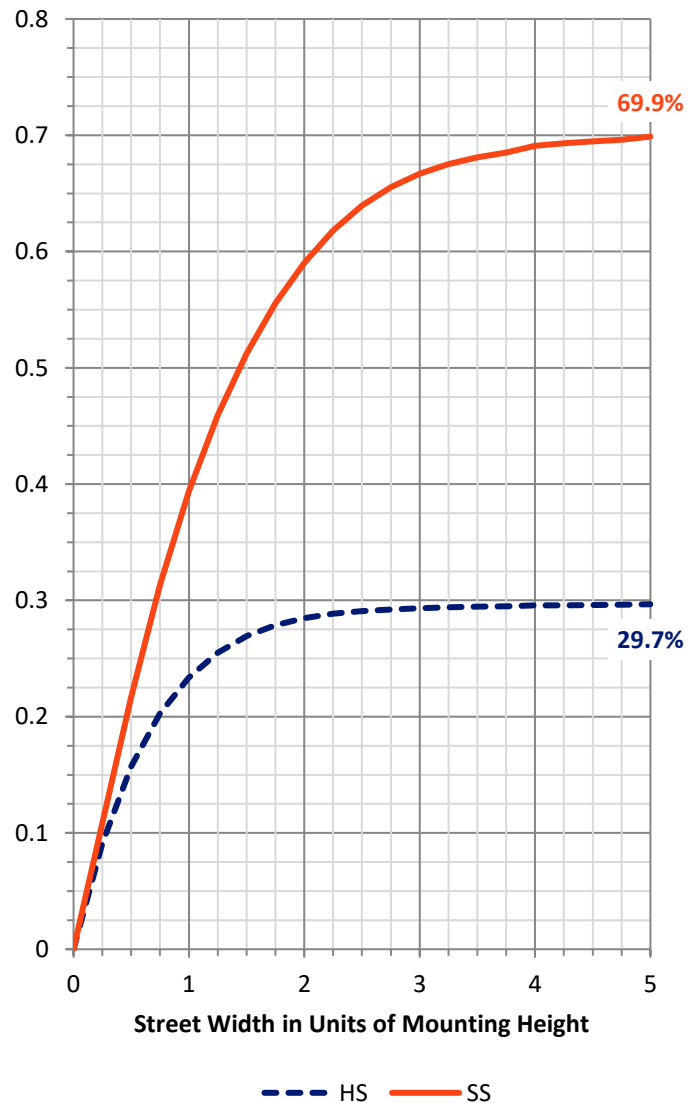
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3384.7	0.0	3384.7
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	7953.3	0.0	7953.3
	% Fixture	70.1	0.0	70.1
Total	Lumens	11338.0	0.0	11338.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.6
10°-20°	536.2	4.7
20°-30°	916.8	8.1
30°-40°	1328.7	11.7
40°-50°	1782.6	15.7
50°-60°	2184.9	19.3
60°-70°	2442.8	21.5
70°-80°	1674.0	14.8
80°-90°	295.8	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°	11338.0	100.0
0°-180°	11338.0	100.0



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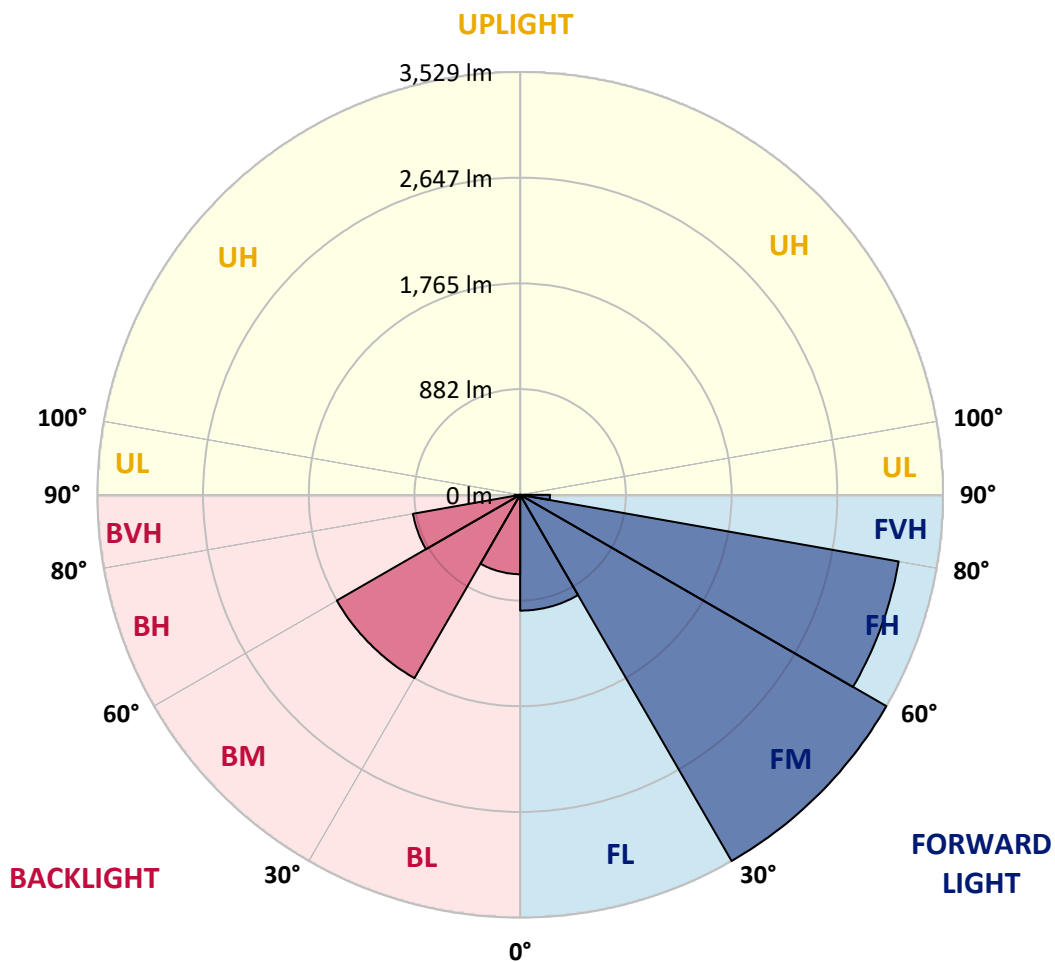
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.8	8.5			
FM	(30°-60°)	3529.3	31.1			
FH	(60°-80°)	3208.1	28.3			G2/5000
FVH	(80°-90°)	249.1	2.2			G3/500
BL	(0°-30°)	662.6	5.8	B2/1000		
BM	(30°-60°)	1766.8	15.6	B2/2500		
BH	(60°-80°)	908.7	8.0	B2/1000		G2/1000
BVH	(80°-90°)	46.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7
2.5°	1912.4	1905.1	1905.5	1902.8	1895.5	1888.9	1884.2	1871.9	1862.7	1852.4	1845.4
5°	1988.4	1981.1	1975.5	1969.5	1960.9	1948.0	1931.7	1911.4	1889.5	1867.0	1853.4
7.5°	2062.5	2055.8	2049.2	2040.2	2027.9	2008.7	1984.8	1955.6	1922.4	1887.5	1868.0
10°	2132.2	2128.8	2123.2	2110.9	2095.7	2074.1	2045.5	2008.7	1963.9	1917.1	1888.9
12.5°	2197.2	2199.2	2194.6	2184.3	2167.3	2140.8	2109.3	2064.8	2012.7	1949.0	1915.4
15°	2266.3	2260.3	2258.3	2250.3	2237.7	2211.2	2175.0	2123.2	2066.1	1992.1	1949.0
17.5°	2329.6	2322.7	2320.7	2312.7	2295.1	2274.9	2240.4	2185.9	2121.9	2036.2	1990.4
20°	2384.1	2382.8	2378.1	2374.5	2358.9	2336.6	2307.7	2257.3	2186.3	2095.0	2037.2
22.5°	2444.2	2436.9	2438.8	2428.6	2418.6	2405.7	2380.8	2333.0	2255.3	2153.4	2091.0
25°	2492.9	2489.0	2487.6	2483.0	2479.7	2475.7	2456.8	2414.0	2328.7	2222.1	2150.7
27.5°	2529.8	2527.1	2536.1	2535.4	2547.7	2548.0	2535.1	2489.3	2409.3	2289.8	2213.5
30°	2567.0	2566.3	2582.2	2592.5	2605.8	2617.4	2606.5	2567.6	2483.3	2364.8	2284.5
32.5°	2611.4	2609.4	2627.7	2644.3	2664.2	2684.1	2677.8	2642.6	2565.0	2441.5	2355.5
35°	2656.2	2657.6	2677.5	2695.1	2724.0	2749.8	2749.5	2724.0	2650.3	2527.8	2435.5
37.5°	2708.4	2711.0	2724.6	2749.2	2784.0	2810.6	2822.2	2802.9	2737.9	2623.4	2533.1
40°	2834.5	2827.5	2859.4	2870.0	2887.2	2898.5	2912.8	2898.9	2845.1	2730.3	2646.3
42.5°	2962.6	2976.5	3014.7	3015.4	3031.3	3036.6	3037.3	3016.0	2961.3	2853.7	2752.2
45°	2950.3	2964.9	3022.3	3059.8	3138.2	3185.3	3188.6	3158.7	3099.3	2938.4	2794.6
47.5°	2951.6	2968.6	3017.4	3032.6	3131.9	3256.0	3330.0	3318.1	3222.5	2995.1	2851.1
50°	2992.1	3012.4	3058.8	3039.9	3108.6	3230.4	3343.0	3375.8	3262.3	3062.8	2923.1
52.5°	3058.8	3076.1	3127.2	3097.7	3145.8	3273.3	3418.6	3462.4	3360.5	3150.8	2996.8
55°	3130.9	3152.8	3198.2	3186.3	3235.1	3378.5	3538.8	3589.6	3482.0	3237.1	3060.2
57.5°	3217.2	3227.5	3287.9	3295.8	3355.9	3510.9	3680.5	3725.6	3598.9	3308.1	3108.6
60°	3267.9	3278.6	3355.9	3402.7	3508.9	3684.5	3852.4	3887.9	3720.0	3363.9	3138.8
62.5°	3337.6	3346.9	3403.4	3491.6	3675.9	3879.0	4042.9	4055.2	3839.5	3407.3	3137.8
65°	3362.2	3362.5	3423.6	3566.0	3810.9	4081.4	4243.1	4217.2	3949.3	3408.7	3087.7
67.5°	3038.3	3075.4	3186.6	3510.2	3898.9	4257.4	4432.6	4366.2	4017.7	3356.9	2972.2
70°	2444.8	2432.9	2600.5	3082.4	3776.1	4331.0	4562.7	4459.8	4017.4	3236.7	2774.4
72°	1658.9	1727.6	2008.7	2455.1	3393.7	4240.8	4599.9	4483.1	3964.3	3089.0	2574.6
72.5°	1495.2	1547.7	1771.4	2285.5	3296.8	4192.3	4587.9	4478.7	3941.7	3033.0	2511.5
75°	491.6	556.3	792.3	1314.7	2449.8	3682.5	4389.1	4383.1	3713.4	2721.0	2162.7
77.5°	193.8	197.2	220.1	503.5	1465.0	2909.2	3858.4	3984.5	3064.5	2243.0	1707.7
80°	140.7	137.4	142.1	182.9	580.8	1919.1	3016.7	3127.5	1823.8	1508.5	1194.2
82.5°	96.9	95.6	97.6	116.2	241.3	1053.5	2055.5	1807.2	653.2	674.1	680.7
85°	54.1	55.1	54.4	65.7	127.8	463.0	1013.3	719.2	101.2	121.5	282.5
87.5°	20.2	20.6	21.2	23.9	44.5	128.8	366.1	117.2	17.3	17.3	44.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7	1842.7
2.5°	1840.7	1828.1	1813.9	1804.6	1792.0	1785.7	1777.4	1777.4	1773.7	1770.7
5°	1841.4	1813.2	1785.0	1760.1	1740.5	1721.6	1706.0	1694.7	1693.1	1689.4
7.5°	1847.1	1804.9	1760.8	1722.3	1688.7	1658.5	1633.6	1619.7	1610.7	1604.4
10°	1859.3	1801.6	1741.2	1684.1	1635.3	1596.5	1564.6	1548.0	1538.1	1535.7
12.5°	1878.9	1801.3	1722.6	1650.6	1588.2	1541.7	1508.5	1486.6	1479.0	1473.3
15°	1902.2	1805.9	1708.3	1618.7	1545.0	1490.3	1456.1	1433.5	1422.2	1419.9
17.5°	1934.0	1817.5	1697.0	1588.8	1504.2	1443.5	1407.3	1384.4	1374.1	1372.4
20°	1973.5	1833.4	1689.7	1562.3	1468.7	1404.3	1361.8	1337.6	1329.0	1329.0
22.5°	2019.0	1855.7	1686.7	1539.0	1435.5	1366.8	1322.6	1300.4	1295.1	1293.1
25°	2068.1	1886.9	1691.7	1522.5	1405.3	1333.6	1289.8	1266.6	1257.3	1255.9
27.5°	2125.2	1924.1	1704.7	1513.2	1383.1	1302.1	1259.3	1231.4	1223.1	1219.1
30°	2188.3	1968.9	1727.6	1515.1	1371.1	1278.8	1224.4	1199.8	1187.6	1182.9
32.5°	2259.0	2024.6	1765.1	1531.4	1369.8	1260.9	1196.5	1163.0	1149.7	1148.7
35°	2336.9	2094.7	1821.5	1559.3	1369.1	1238.3	1164.0	1129.1	1121.2	1121.5
37.5°	2438.2	2185.9	1872.6	1554.0	1326.0	1194.2	1127.2	1104.3	1097.3	1096.3
40°	2542.1	2239.7	1858.3	1521.5	1290.1	1157.7	1099.6	1081.7	1078.4	1076.4
42.5°	2601.8	2242.4	1866.0	1515.5	1269.2	1136.8	1079.0	1062.1	1056.8	1055.1
45°	2633.3	2282.5	1900.5	1517.8	1255.6	1120.2	1059.1	1041.2	1031.9	1029.9
47.5°	2695.4	2334.3	1936.3	1524.4	1247.3	1097.9	1037.5	1017.3	1007.7	1008.0
50°	2760.8	2382.4	1964.9	1531.4	1237.7	1078.4	1014.6	991.1	984.1	981.4
52.5°	2818.5	2419.9	1978.2	1533.4	1225.7	1058.1	987.1	960.5	951.9	949.9
55°	2862.0	2437.8	1971.5	1528.1	1208.8	1031.6	954.9	923.0	912.4	910.4
57.5°	2887.9	2428.9	1936.3	1501.9	1181.3	998.7	913.1	872.2	858.3	856.3
60°	2884.3	2378.1	1862.7	1449.4	1137.1	945.6	843.7	796.9	778.7	775.7
62.5°	2841.8	2282.8	1763.7	1374.4	1066.7	857.0	753.8	697.0	668.5	659.5
65°	2751.2	2142.1	1639.6	1251.6	943.9	739.5	634.9	567.6	490.9	473.0
67.5°	2596.5	1949.0	1469.7	1106.6	792.9	619.3	521.4	358.1	280.1	262.5
70°	2350.6	1686.4	1260.2	894.8	614.7	492.2	353.1	198.5	193.5	194.2
72°	2123.2	1483.6	1077.0	717.9	490.2	399.9	211.8	167.9	173.6	171.3
72.5°	2056.2	1426.5	1038.2	669.8	459.7	378.7	188.5	162.6	166.0	168.6
75°	1731.9	1114.2	747.1	459.0	340.9	253.2	140.1	138.4	142.7	143.7
77.5°	1312.0	794.3	479.6	291.1	227.0	144.4	112.2	112.2	116.5	117.2
80°	862.6	489.9	199.8	115.2	142.7	95.3	83.0	85.0	89.9	91.9
82.5°	545.7	264.2	59.7	60.4	72.7	62.4	56.1	58.4	62.7	63.1
85°	265.9	54.1	32.2	32.9	33.5	33.9	29.2	31.2	32.2	31.2
87.5°	65.4	13.6	12.3	13.3	10.6	9.0	9.0	7.6	5.3	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)