

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: P395091

Luminaire Tested: **LAS45S-T3-Switch-7**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395091
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: LAS45S-T3-Switch-7
Description: AREA SITE SMALL HOUSING, TYPE III, WATTAGE SWITCH ON POSTION 7
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10705 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

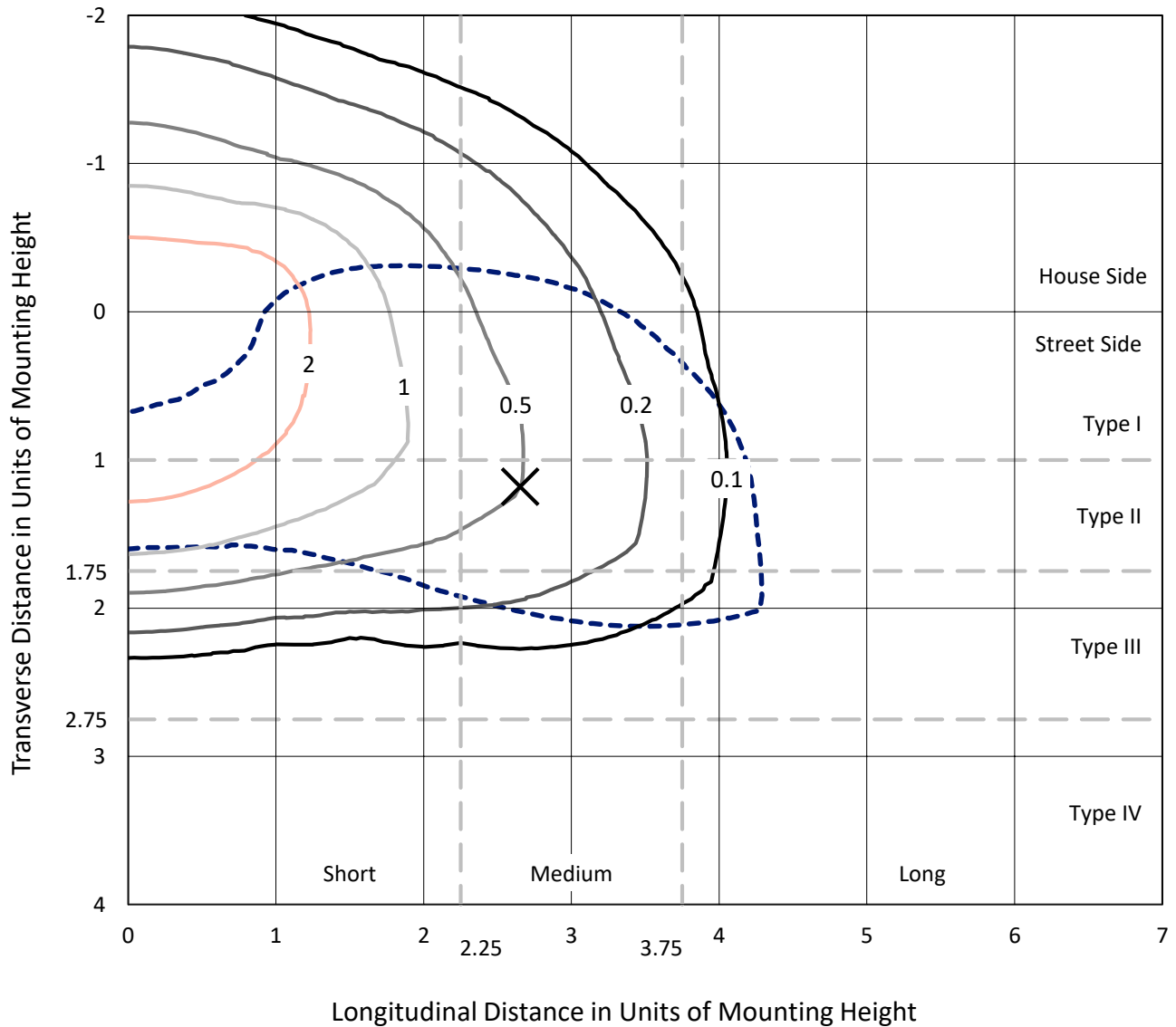
Input Watts (W): 68.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395091
 CATALOG NUMBER: LAS45S-T3-Switch-7

Iso-Footcandle Lines of Horizontal Illumination

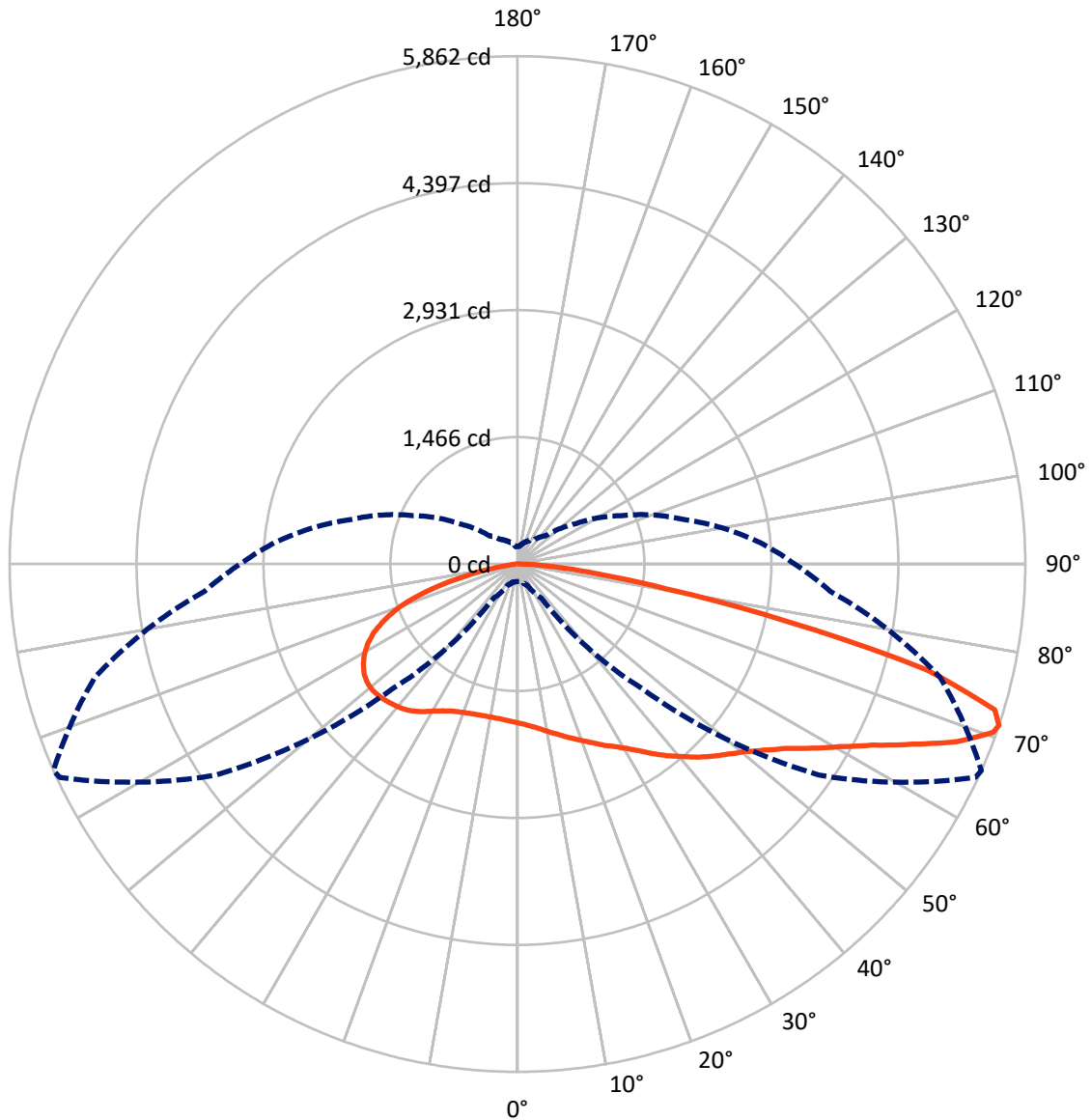
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P395091
CATALOG NUMBER: LAS45S-T3-Switch-7

Luminous Intensity Polar Plot



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

REPORT NUMBER: P395091

CATALOG NUMBER: LAS45S-T3-Switch-7

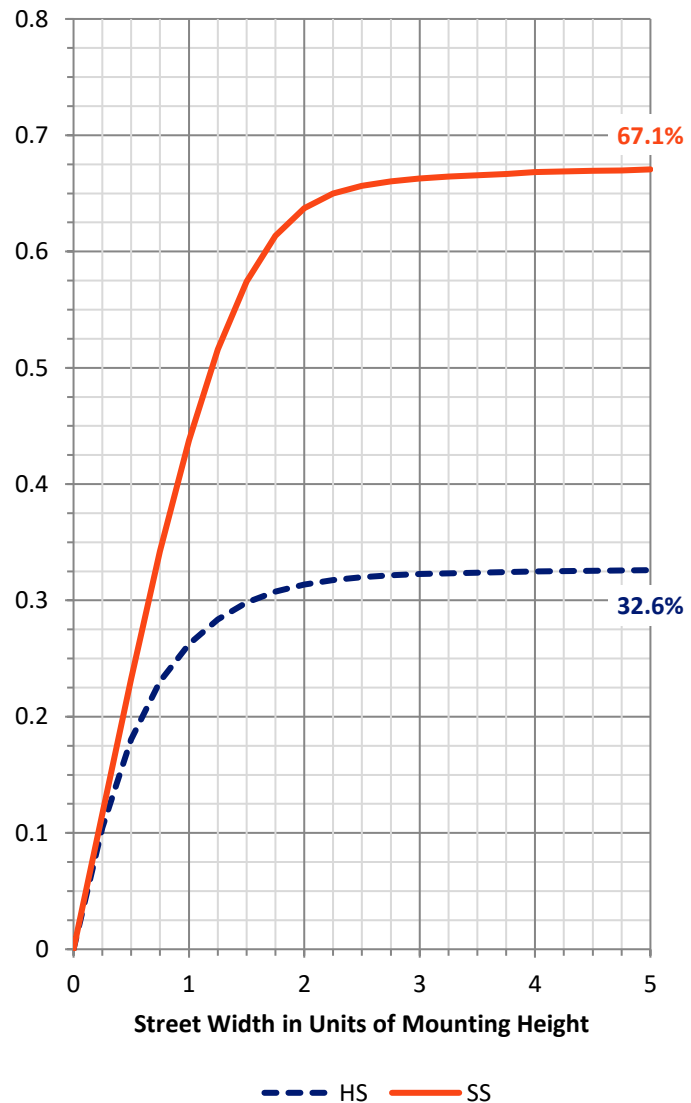
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3512.4	0.0	3512.4
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	7192.6	0.0	7192.6
	% Fixture	67.2	0.0	67.2
Total	Lumens	10705.0	0.0	10705.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.6
10°-20°	532.5	5.0
20°-30°	918.2	8.6
30°-40°	1379.0	12.9
40°-50°	1860.1	17.4
50°-60°	2277.7	21.3
60°-70°	2150.2	20.1
70°-80°	1244.4	11.6
80°-90°	166.8	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°	10705.0	100.0
0°-180°	10705.0	100.0



REPORT NUMBER: P395091

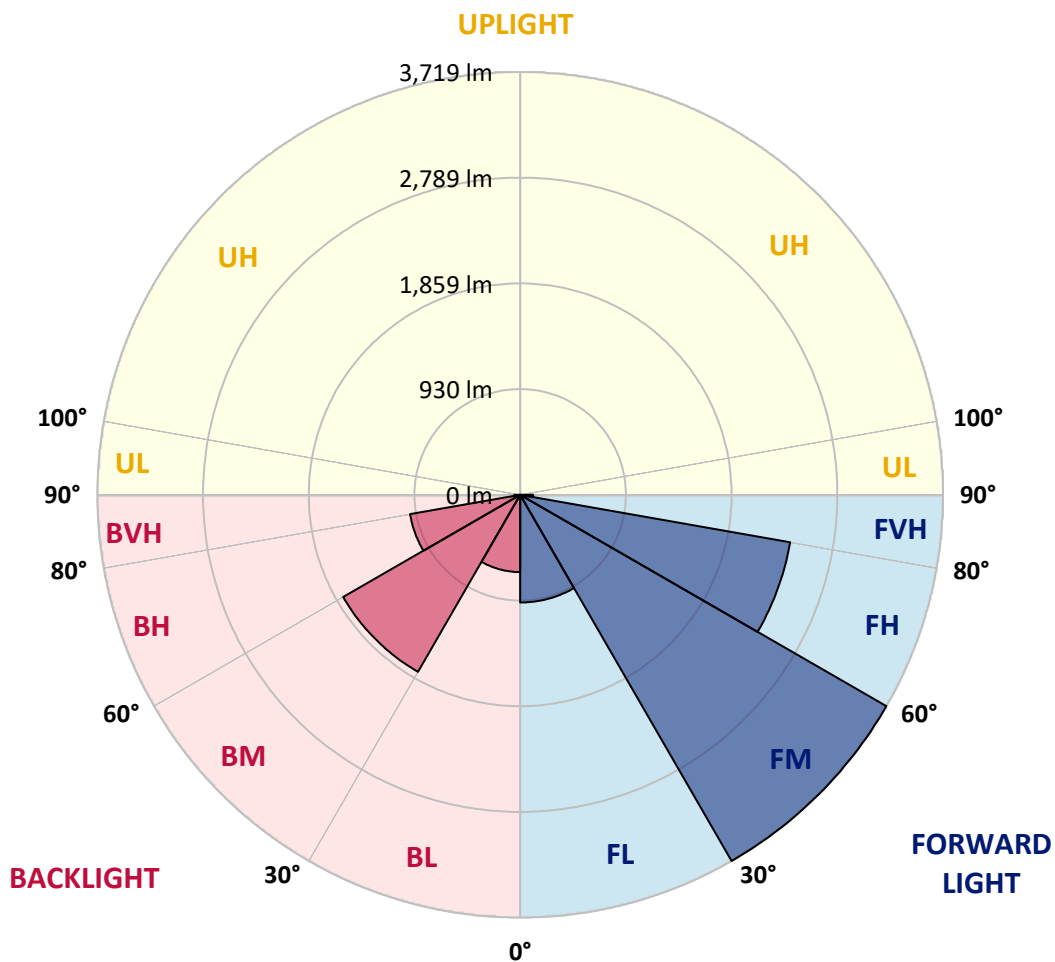
CATALOG NUMBER: LAS45S-T3-Switch-7

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.2	8.8			
FM	(30°-60°)	3718.9	34.7			
FH	(60°-80°)	2411.3	22.5			G2/5000
FVH	(80°-90°)	115.2	1.1			G2/225
BL	(0°-30°)	679.5	6.3	B2/1000		
BM	(30°-60°)	1797.9	16.8	B2/2500		
BH	(60°-80°)	983.4	9.2	B2/1000		G2/1000
BVH	(80°-90°)	51.6	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





REPORT NUMBER: P395091

CATALOG NUMBER: LAS45S-T3-Switch-7

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6
2.5°	1882.7	1881.8	1882.4	1880.2	1874.7	1872.5	1867.0	1857.8	1857.4	1849.5	1844.2
5°	1931.6	1930.7	1927.9	1924.5	1918.7	1915.9	1905.4	1888.2	1886.7	1875.3	1861.4
7.5°	1976.8	1976.5	1975.9	1969.4	1963.3	1956.2	1946.0	1928.2	1923.3	1907.0	1885.8
10°	2030.6	2027.9	2025.7	2020.2	2014.0	2005.1	1990.0	1969.7	1969.4	1947.3	1917.1
12.5°	2083.6	2084.8	2080.5	2075.2	2063.3	2055.3	2038.3	2019.6	2012.8	1990.7	1955.0
15°	2142.3	2142.9	2135.5	2131.2	2123.5	2111.9	2088.8	2067.3	2066.3	2038.0	1998.0
17.5°	2212.8	2215.8	2206.9	2201.1	2188.1	2170.6	2146.3	2122.9	2120.2	2091.6	2048.5
20°	2290.9	2287.2	2285.4	2273.7	2261.7	2238.6	2212.1	2185.4	2179.8	2148.8	2104.2
22.5°	2372.7	2371.8	2371.5	2355.5	2342.3	2309.7	2275.8	2248.8	2242.6	2211.5	2162.9
25°	2477.6	2480.7	2465.6	2453.0	2431.5	2389.3	2351.8	2313.0	2316.7	2282.0	2235.5
27.5°	2609.6	2609.6	2602.5	2582.5	2547.8	2488.7	2438.6	2388.4	2386.6	2358.3	2310.0
30°	2781.6	2780.3	2775.1	2756.0	2695.7	2627.1	2536.7	2477.3	2467.8	2430.3	2405.9
32.5°	2872.0	2876.6	2885.5	2881.5	2853.9	2787.4	2669.3	2570.8	2566.8	2524.7	2499.2
35°	2929.8	2934.5	2946.4	2958.4	2942.8	2900.3	2795.7	2698.8	2687.4	2625.0	2602.5
37.5°	3002.4	3003.7	3010.7	3027.4	3026.1	2993.8	2913.8	2818.8	2808.0	2736.3	2718.2
40°	3089.8	3090.1	3095.6	3107.6	3107.3	3077.8	3028.0	2938.4	2919.7	2860.3	2832.9
42.5°	3191.0	3182.7	3190.4	3201.2	3201.2	3178.7	3142.1	3055.0	3048.3	2978.1	2940.6
45°	3283.9	3280.5	3285.5	3291.3	3293.1	3282.1	3249.8	3174.1	3163.6	3089.5	3037.2
47.5°	3378.4	3375.0	3369.7	3390.0	3398.7	3412.2	3379.3	3290.4	3279.0	3180.2	3118.4
50°	3449.1	3447.0	3447.3	3468.8	3504.5	3540.5	3532.8	3425.4	3403.3	3274.1	3191.0
52.5°	3446.3	3443.6	3451.0	3502.6	3585.7	3675.8	3702.0	3590.9	3568.5	3391.0	3258.7
55°	3289.5	3297.4	3335.6	3462.3	3625.1	3822.6	3910.5	3798.6	3757.0	3528.5	3341.7
57.5°	3017.2	3001.8	3088.6	3275.6	3567.2	3921.0	4121.6	4035.4	4011.5	3689.7	3420.8
60°	2539.1	2536.7	2692.0	2944.3	3382.0	3953.6	4345.2	4320.9	4278.5	3880.4	3492.2
62.5°	1884.2	1893.1	2011.6	2413.3	3039.7	3853.9	4568.9	4648.9	4604.9	4105.6	3560.8
65°	1112.7	1115.5	1243.4	1623.7	2461.9	3584.2	4722.1	5056.2	5014.6	4395.1	3628.1
67.5°	466.7	494.4	579.3	832.4	1684.3	3086.7	4724.2	5467.1	5472.1	4726.7	3686.3
70°	228.9	232.3	267.0	339.9	701.7	2405.0	4440.0	5797.8	5824.6	5013.1	3675.2
71°	203.0	203.3	218.1	269.8	482.1	2033.7	4244.6	5829.5	5862.4	5050.0	3625.7
72.5°	180.3	180.0	188.9	210.4	312.2	1424.9	3764.1	5714.2	5760.3	4940.2	3478.0
75°	144.9	145.8	152.3	164.0	217.2	647.2	2739.1	4819.0	4882.0	4183.1	2898.5
77.5°	110.4	112.9	121.2	130.1	162.4	391.6	1735.3	3283.6	3178.7	2658.8	2075.9
80°	82.8	83.7	89.2	99.1	119.4	245.5	974.6	1700.3	1744.9	1402.8	1124.4
82.5°	57.5	59.4	63.7	68.6	77.2	155.4	591.0	920.4	913.7	601.4	439.0
85°	34.1	35.7	37.2	40.9	44.0	79.4	327.0	463.3	451.6	155.4	92.3
87.5°	12.6	13.2	14.8	13.8	16.0	26.1	112.3	116.0	113.2	26.8	19.7
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: P395091

CATALOG NUMBER: LAS45S-T3-Switch-7

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6	1835.6
2.5°	1838.1	1835.9	1827.6	1818.1	1809.8	1803.6	1796.2	1790.7	1788.8	1783.3	1784.5
5°	1850.1	1843.3	1823.0	1803.6	1783.6	1766.7	1751.6	1739.9	1731.3	1724.9	1729.8
7.5°	1869.4	1856.8	1827.0	1793.8	1761.5	1734.1	1710.1	1687.3	1671.6	1666.4	1663.3
10°	1896.5	1879.3	1835.0	1787.9	1742.7	1701.8	1661.8	1634.1	1607.7	1596.9	1590.7
12.5°	1930.7	1905.7	1847.3	1787.3	1726.4	1667.6	1608.0	1566.1	1530.4	1518.8	1511.4
15°	1971.6	1940.2	1867.9	1790.7	1708.9	1623.0	1549.8	1492.9	1449.5	1433.2	1428.9
17.5°	2015.6	1979.3	1892.8	1796.8	1691.0	1580.9	1491.4	1422.5	1374.8	1356.0	1355.4
20°	2069.7	2028.8	1924.5	1809.2	1673.2	1539.4	1433.2	1358.2	1309.3	1285.3	1281.0
22.5°	2132.2	2085.4	1967.6	1823.3	1658.4	1497.2	1378.2	1292.3	1242.2	1220.7	1215.7
25°	2198.0	2147.2	2019.3	1846.7	1645.5	1462.1	1326.5	1237.9	1186.2	1162.2	1157.3
27.5°	2280.1	2224.1	2080.2	1882.4	1639.0	1429.2	1282.2	1186.8	1134.5	1106.5	1104.7
30°	2372.4	2317.7	2161.4	1924.2	1641.5	1402.8	1244.0	1141.9	1085.3	1058.2	1051.5
32.5°	2469.6	2417.6	2247.5	1981.7	1648.0	1378.5	1205.3	1096.4	1037.3	1008.4	1004.1
35°	2577.3	2528.1	2338.6	2033.7	1651.0	1347.7	1159.8	1050.9	990.6	965.3	960.4
37.5°	2693.0	2636.4	2431.8	2074.9	1643.0	1309.0	1115.1	1009.9	952.1	929.6	926.9
40°	2804.6	2742.5	2506.8	2103.6	1629.5	1270.8	1075.8	974.3	923.2	904.1	900.7
42.5°	2902.8	2833.2	2564.4	2126.3	1614.7	1236.7	1043.2	948.1	902.9	886.3	883.2
45°	2993.5	2912.3	2621.3	2146.6	1600.6	1205.9	1018.9	928.7	886.9	872.1	870.3
47.5°	3066.1	2984.0	2667.1	2160.5	1580.6	1181.6	997.0	911.8	874.6	863.2	862.3
50°	3138.4	3046.7	2706.2	2162.6	1558.4	1157.6	977.9	896.4	863.5	855.8	855.8
52.5°	3202.1	3102.1	2733.6	2147.8	1527.4	1130.5	954.6	879.2	850.6	848.4	849.0
55°	3264.5	3153.5	2740.6	2113.1	1491.4	1103.5	928.7	855.8	830.6	832.1	833.4
57.5°	3316.5	3176.6	2721.0	2053.7	1448.0	1065.3	893.7	818.9	789.7	790.6	793.4
60°	3346.1	3172.9	2672.0	1980.2	1385.9	1014.9	841.7	759.8	718.0	710.3	714.3
62.5°	3361.7	3148.6	2589.3	1883.3	1313.0	948.1	758.6	663.6	612.8	617.1	614.0
65°	3360.8	3105.2	2479.2	1765.5	1213.9	838.6	648.5	549.1	515.0	503.9	503.0
67.5°	3339.3	3023.4	2321.7	1602.1	1080.4	698.3	516.8	438.1	403.3	402.1	398.1
70°	3256.8	2892.0	2109.1	1417.2	888.4	522.0	394.7	330.1	299.0	260.9	259.3
71°	3199.6	2813.9	1985.1	1322.8	802.0	461.4	347.6	295.3	247.0	201.2	201.2
72.5°	3031.0	2668.7	1814.1	1174.8	653.7	377.5	287.0	237.2	168.3	157.8	158.4
75°	2631.7	2281.7	1484.3	882.3	442.1	259.0	200.3	155.4	115.4	125.5	128.9
77.5°	1979.0	1741.8	1103.1	555.3	251.6	165.2	138.4	102.1	91.7	103.4	103.1
80°	1134.2	1081.6	680.2	296.9	109.8	104.0	97.8	74.4	70.1	78.4	78.4
82.5°	558.0	599.6	371.6	110.7	50.5	60.6	62.8	52.0	48.9	52.9	54.1
85°	183.0	264.3	136.9	39.7	28.9	30.1	27.7	26.8	26.5	27.4	27.1
87.5°	26.5	47.7	19.7	15.4	12.0	10.5	8.6	8.0	6.8	5.8	5.5
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)