

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: P395090

Luminaire Tested: **LAS45S-T3-Switch-6**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395090
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-6
Description: AREA SITE SMALL HOUSING, TYPE III, 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: 11550 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 0.71' x L: 0.6' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

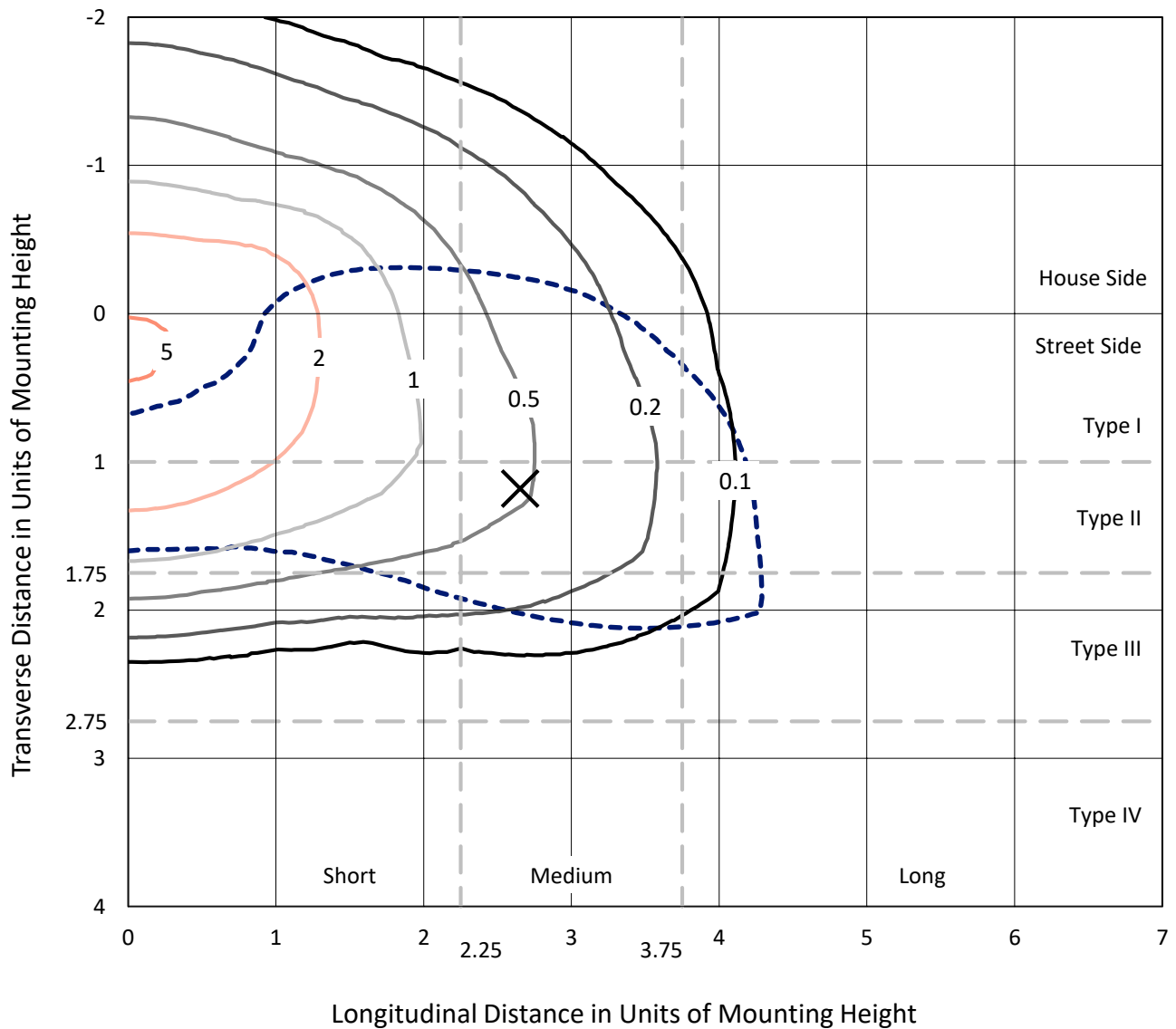
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

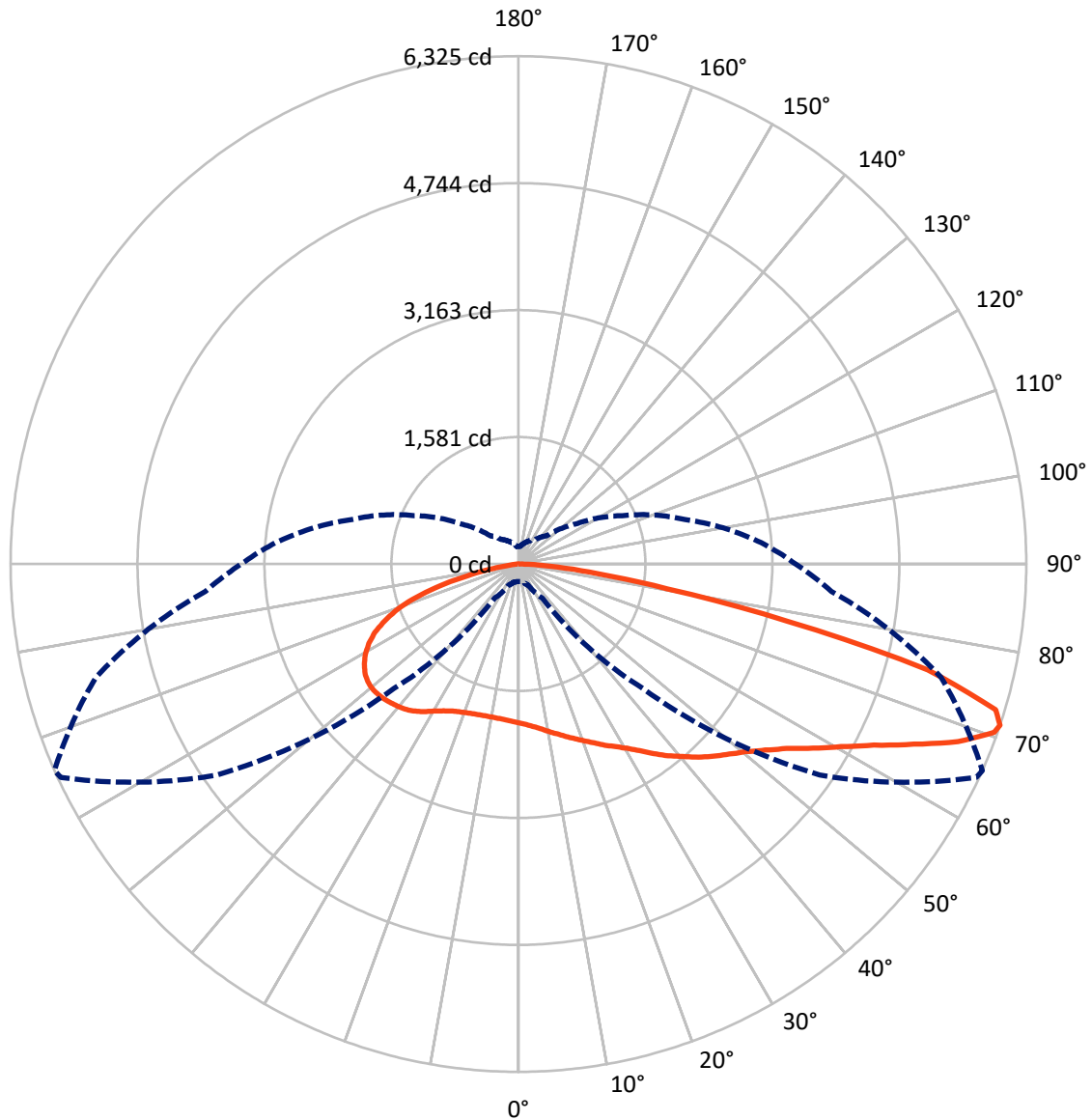
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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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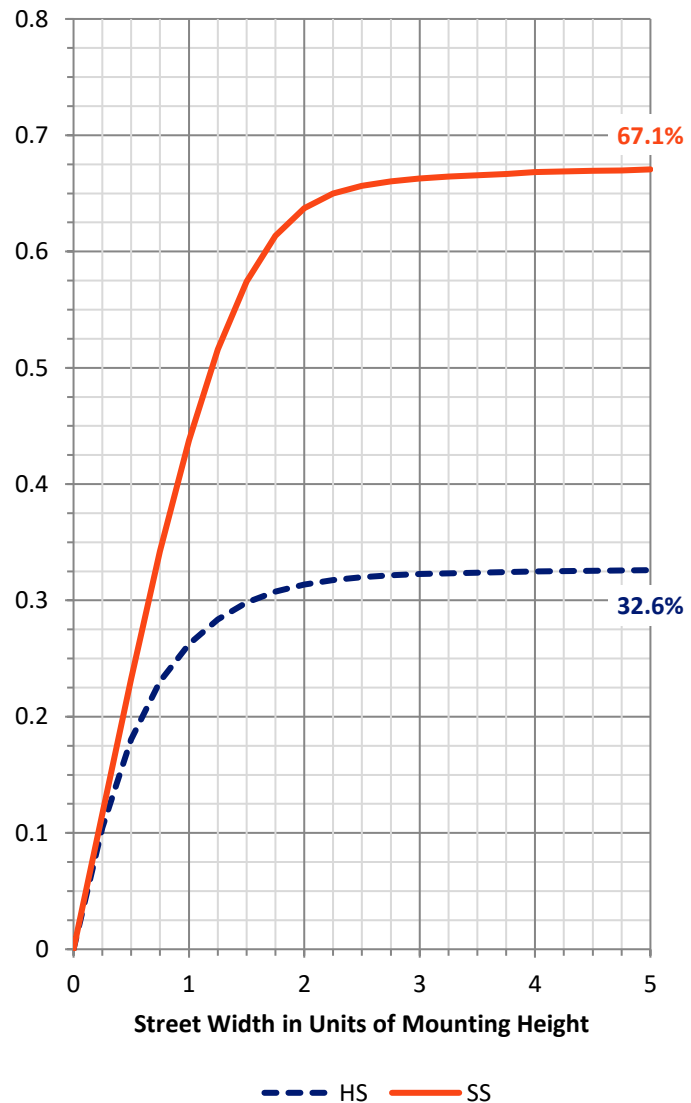
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3789.7	0.0	3789.7
	% Fixture	32.8	0.0	32.8
Street Side	Lumens	7760.3	0.0	7760.3
	% Fixture	67.2	0.0	67.2
Total	Lumens	11550.0	0.0	11550.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	1.6
10°-20°	574.5	5.0
20°-30°	990.6	8.6
30°-40°	1487.9	12.9
40°-50°	2007.0	17.4
50°-60°	2457.5	21.3
60°-70°	2320.0	20.1
70°-80°	1342.7	11.6
80°-90°	179.9	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°	11550.0	100.0
0°-180°	11550.0	100.0



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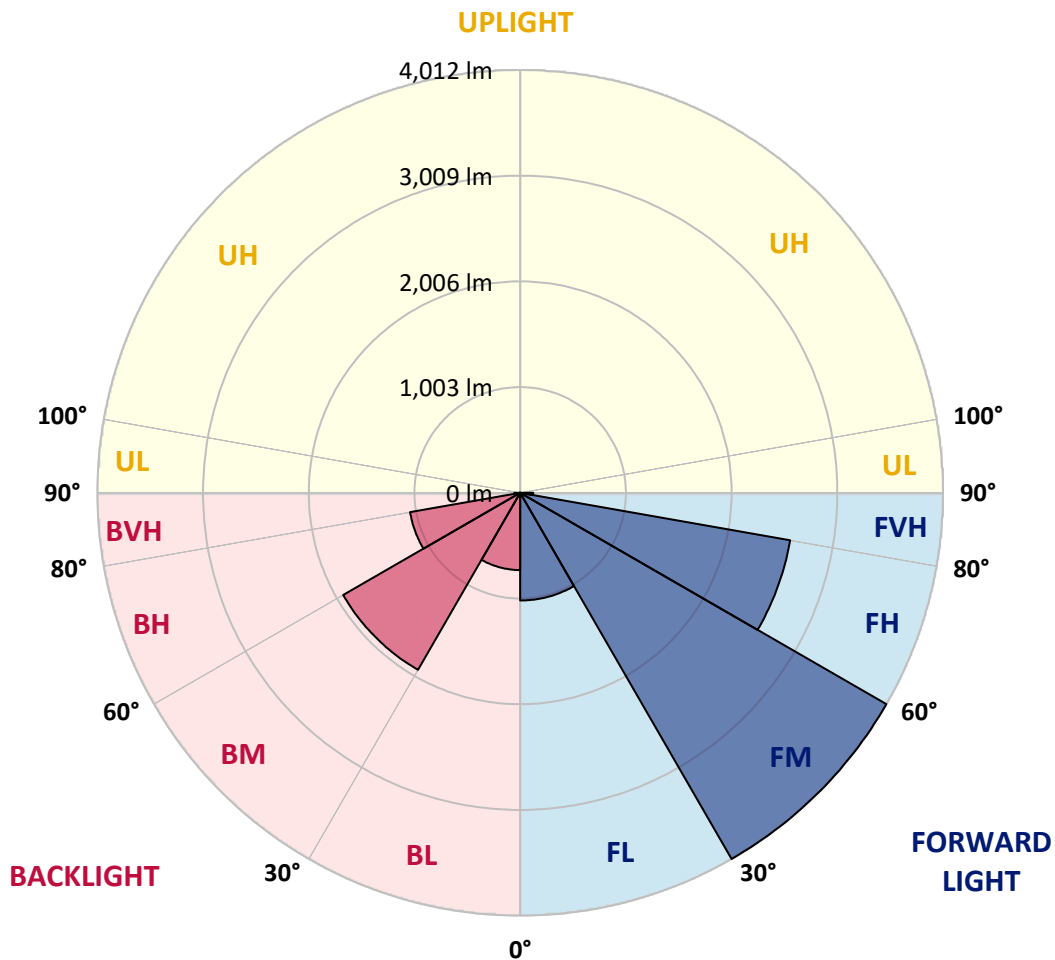
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.0	8.8			
FM	(30°-60°)	4012.5	34.7			
FH	(60°-80°)	2601.6	22.5			G2/5000
FVH	(80°-90°)	124.2	1.1			G2/225
BL	(0°-30°)	733.1	6.3	B2/1000		
BM	(30°-60°)	1939.9	16.8	B2/2500		
BH	(60°-80°)	1061.0	9.2	B3/2500		G3/2500
BVH	(80°-90°)	55.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5
2.5°	2031.3	2030.3	2031.0	2028.6	2022.7	2020.3	2014.4	2004.4	2004.1	1995.4	1989.8
5°	2084.1	2083.1	2080.1	2076.4	2070.1	2067.1	2055.8	2037.3	2035.6	2023.3	2008.4
7.5°	2132.8	2132.5	2131.9	2124.9	2118.2	2110.6	2099.7	2080.4	2075.1	2057.5	2034.6
10°	2190.9	2187.9	2185.6	2179.6	2173.0	2163.4	2147.1	2125.2	2124.9	2101.0	2068.5
12.5°	2248.0	2249.3	2244.7	2239.1	2226.1	2217.5	2199.2	2179.0	2171.7	2147.8	2109.3
15°	2311.4	2312.1	2304.1	2299.5	2291.2	2278.6	2253.7	2230.4	2229.4	2198.9	2155.7
17.5°	2387.4	2390.7	2381.1	2374.8	2360.9	2342.0	2315.7	2290.5	2287.5	2256.7	2210.2
20°	2471.7	2467.7	2465.8	2453.1	2440.2	2415.3	2386.8	2357.9	2351.9	2318.4	2270.3
22.5°	2560.0	2559.0	2558.7	2541.4	2527.2	2492.0	2455.5	2426.3	2419.6	2386.1	2333.7
25°	2673.2	2676.5	2660.3	2646.6	2623.4	2577.9	2537.4	2495.6	2499.6	2462.1	2412.0
27.5°	2815.6	2815.6	2808.0	2786.4	2748.9	2685.1	2631.0	2576.9	2575.0	2544.4	2492.3
30°	3001.1	2999.8	2994.2	2973.6	2908.5	2834.5	2736.9	2672.9	2662.6	2622.1	2595.9
32.5°	3098.7	3103.7	3113.3	3109.0	3079.1	3007.4	2880.0	2773.8	2769.4	2724.0	2696.4
35°	3161.1	3166.1	3179.0	3192.0	3175.0	3129.2	3016.4	2911.8	2899.6	2832.2	2808.0
37.5°	3239.4	3240.8	3248.4	3266.3	3265.0	3230.1	3143.8	3041.3	3029.7	2952.3	2932.7
40°	3333.7	3334.0	3340.0	3352.9	3352.6	3320.8	3267.0	3170.4	3150.1	3086.1	3056.6
42.5°	3442.9	3433.9	3442.2	3453.8	3453.8	3429.6	3390.1	3296.2	3288.9	3213.2	3172.7
45°	3543.1	3539.5	3544.8	3551.1	3553.1	3541.1	3506.3	3424.6	3413.4	3333.4	3276.9
47.5°	3645.0	3641.4	3635.7	3657.6	3666.9	3681.5	3646.0	3550.1	3537.8	3431.3	3364.6
50°	3721.4	3719.0	3719.4	3742.6	3781.1	3819.9	3811.6	3695.8	3671.9	3532.5	3442.9
52.5°	3718.4	3715.4	3723.4	3779.1	3868.7	3966.0	3994.2	3874.4	3850.1	3658.6	3515.9
55°	3549.1	3557.7	3598.9	3735.6	3911.2	4124.3	4219.2	4098.4	4053.6	3807.0	3605.5
57.5°	3255.4	3238.8	3332.4	3534.2	3848.8	4230.5	4446.9	4354.0	4328.1	3980.9	3690.8
60°	2739.6	2736.9	2904.5	3176.7	3649.0	4265.7	4688.2	4662.0	4616.2	4186.7	3767.8
62.5°	2032.9	2042.6	2170.4	2603.8	3279.6	4158.2	4929.5	5015.8	4968.3	4429.7	3841.8
65°	1200.5	1203.5	1341.6	1751.8	2656.3	3867.1	5094.8	5455.3	5410.5	4742.0	3914.5
67.5°	503.5	533.4	625.0	898.1	1817.2	3330.4	5097.1	5898.7	5904.0	5099.8	3977.3
70°	246.9	250.6	288.1	366.8	757.1	2594.9	4790.4	6255.5	6284.4	5408.8	3965.3
71°	219.1	219.4	235.3	291.1	520.1	2194.3	4579.7	6289.7	6325.2	5448.6	3911.9
72.5°	194.5	194.2	203.8	227.0	336.9	1537.4	4061.2	6165.2	6215.0	5330.1	3752.6
75°	156.3	157.3	164.3	176.9	234.3	698.3	2955.3	5199.4	5267.4	4513.3	3127.2
77.5°	119.2	121.8	130.8	140.4	175.2	422.5	1872.3	3542.8	3429.6	2868.7	2239.7
80°	89.3	90.3	96.3	106.9	128.8	264.9	1051.5	1834.5	1882.6	1513.5	1213.1
82.5°	62.1	64.1	68.7	74.0	83.3	167.6	637.6	993.1	985.8	648.9	473.6
85°	36.8	38.5	40.2	44.1	47.5	85.6	352.8	499.9	487.2	167.6	99.6
87.5°	13.6	14.3	15.9	14.9	17.3	28.2	121.1	125.1	122.1	28.9	21.2
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°	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5	1980.5
2.5°	1983.2	1980.8	1971.9	1961.6	1952.6	1946.0	1938.0	1932.0	1930.1	1924.1	1925.4
5°	1996.1	1988.8	1966.9	1946.0	1924.4	1906.2	1889.9	1877.3	1868.0	1861.0	1866.3
7.5°	2017.0	2003.4	1971.2	1935.4	1900.5	1871.0	1845.1	1820.5	1803.6	1798.0	1794.6
10°	2046.2	2027.6	1979.8	1929.1	1880.3	1836.1	1793.0	1763.1	1734.6	1722.9	1716.3
12.5°	2083.1	2056.2	1993.1	1928.4	1862.7	1799.3	1734.9	1689.7	1651.2	1638.6	1630.7
15°	2127.2	2093.4	2015.4	1932.0	1843.8	1751.2	1672.2	1610.8	1564.0	1546.4	1541.7
17.5°	2174.7	2135.5	2042.2	1938.7	1824.5	1705.7	1609.1	1534.7	1483.3	1463.1	1462.4
20°	2233.1	2188.9	2076.4	1952.0	1805.3	1660.9	1546.4	1465.4	1412.6	1386.7	1382.1
22.5°	2300.5	2250.0	2122.9	1967.2	1789.3	1615.4	1487.0	1394.4	1340.2	1317.0	1311.7
25°	2371.5	2316.7	2178.7	1992.5	1775.4	1577.6	1431.2	1335.6	1279.8	1254.0	1248.6
27.5°	2460.1	2399.7	2244.4	2031.0	1768.4	1542.0	1383.4	1280.5	1224.1	1193.9	1191.9
30°	2559.7	2500.6	2332.0	2076.1	1771.1	1513.5	1342.2	1232.0	1171.0	1141.8	1134.5
32.5°	2664.6	2608.5	2424.9	2138.2	1778.0	1487.3	1300.4	1182.9	1119.2	1088.0	1083.4
35°	2780.7	2727.6	2523.2	2194.3	1781.4	1454.1	1251.3	1133.8	1068.7	1041.5	1036.2
37.5°	2905.5	2844.5	2623.7	2238.7	1772.7	1412.3	1203.2	1089.7	1027.3	1003.0	1000.0
40°	3026.0	2959.0	2704.7	2269.6	1758.1	1371.1	1160.7	1051.2	996.1	975.5	971.8
42.5°	3131.9	3056.9	2766.8	2294.2	1742.2	1334.3	1125.5	1022.9	974.2	956.2	952.9
45°	3229.8	3142.2	2828.2	2316.1	1726.9	1301.1	1099.3	1002.0	956.9	941.0	939.0
47.5°	3308.1	3219.5	2877.7	2331.0	1705.3	1274.9	1075.7	983.8	943.6	931.3	930.3
50°	3386.1	3287.2	2919.8	2333.3	1681.5	1249.0	1055.1	967.2	931.7	923.4	923.4
52.5°	3454.8	3347.0	2949.3	2317.4	1647.9	1219.8	1029.9	948.6	917.7	915.4	916.1
55°	3522.2	3402.4	2957.0	2279.9	1609.1	1190.6	1002.0	923.4	896.2	897.8	899.1
57.5°	3578.3	3427.3	2935.7	2215.8	1562.3	1149.4	964.2	883.5	852.0	853.0	856.0
60°	3610.2	3423.3	2883.0	2136.5	1495.3	1095.0	908.1	819.8	774.7	766.4	770.7
62.5°	3627.1	3397.1	2793.7	2031.9	1416.6	1022.9	818.5	715.9	661.2	665.8	662.5
65°	3626.1	3350.3	2674.9	1904.8	1309.7	904.8	699.7	592.5	555.6	543.7	542.7
67.5°	3602.9	3262.0	2504.9	1728.6	1165.7	753.4	557.6	472.6	435.1	433.8	429.5
70°	3513.9	3120.3	2275.6	1529.1	958.6	563.2	425.8	356.1	322.6	281.5	279.8
71°	3452.2	3036.0	2141.8	1427.2	865.3	497.9	375.1	318.6	266.5	217.1	217.1
72.5°	3270.3	2879.3	1957.3	1267.6	705.3	407.3	309.7	255.9	181.6	170.3	170.9
75°	2839.5	2461.8	1601.5	951.9	477.0	279.5	216.1	167.6	124.5	135.4	139.1
77.5°	2135.2	1879.3	1190.2	599.1	271.5	178.2	149.4	110.2	98.9	111.5	111.2
80°	1223.7	1167.0	733.9	320.3	118.5	112.2	105.5	80.3	75.7	84.6	84.6
82.5°	602.1	646.9	400.9	119.5	54.4	65.4	67.7	56.1	52.8	57.1	58.4
85°	197.5	285.1	147.7	42.8	31.2	32.5	29.9	28.9	28.5	29.5	29.2
87.5°	28.5	51.4	21.2	16.6	12.9	11.3	9.3	8.6	7.3	6.3	6.0
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)