

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: P380991

Luminaire Tested: **PRV-PA2B-730-U-T4W**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2B-730-U-T4W  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17696 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3

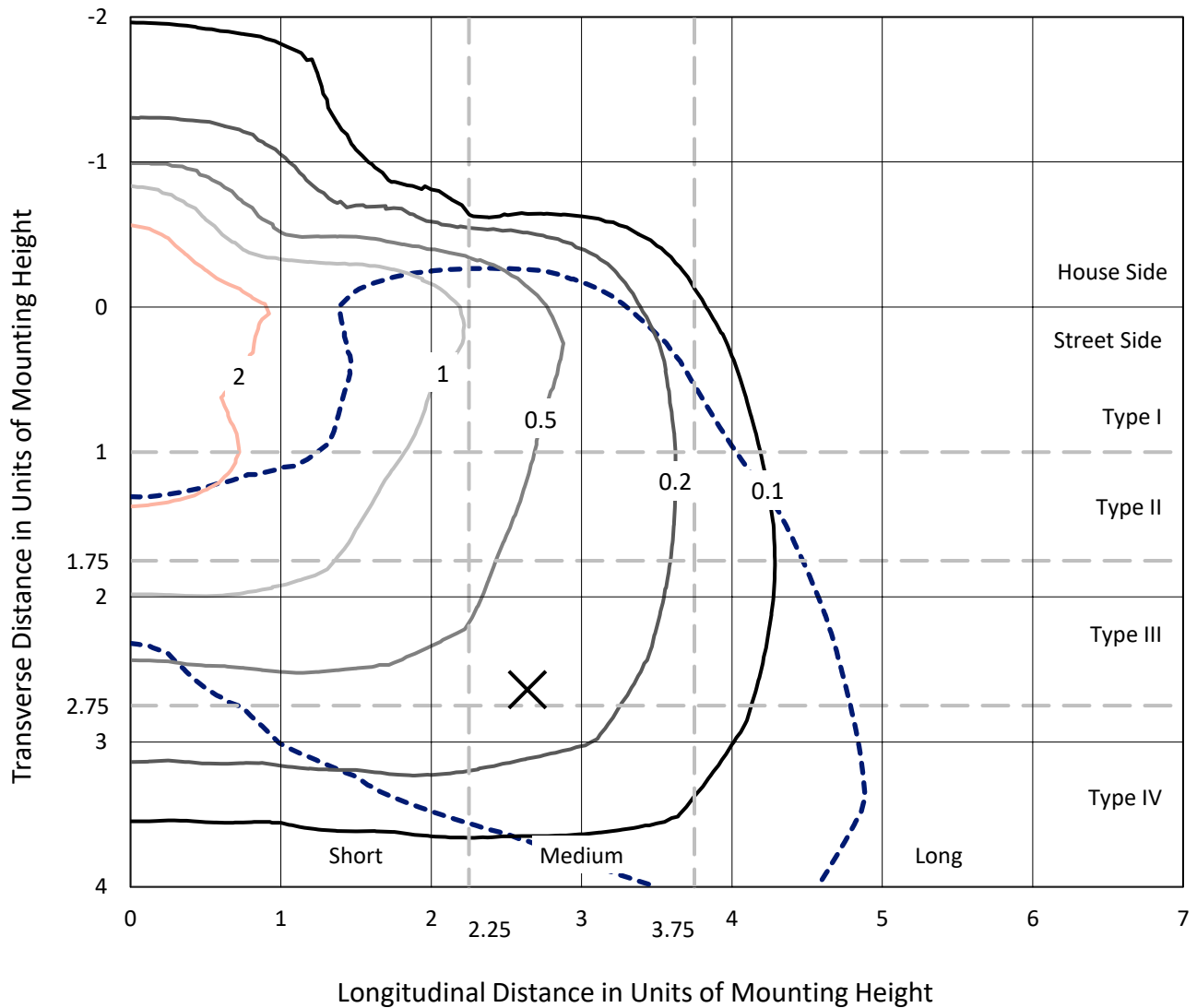
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

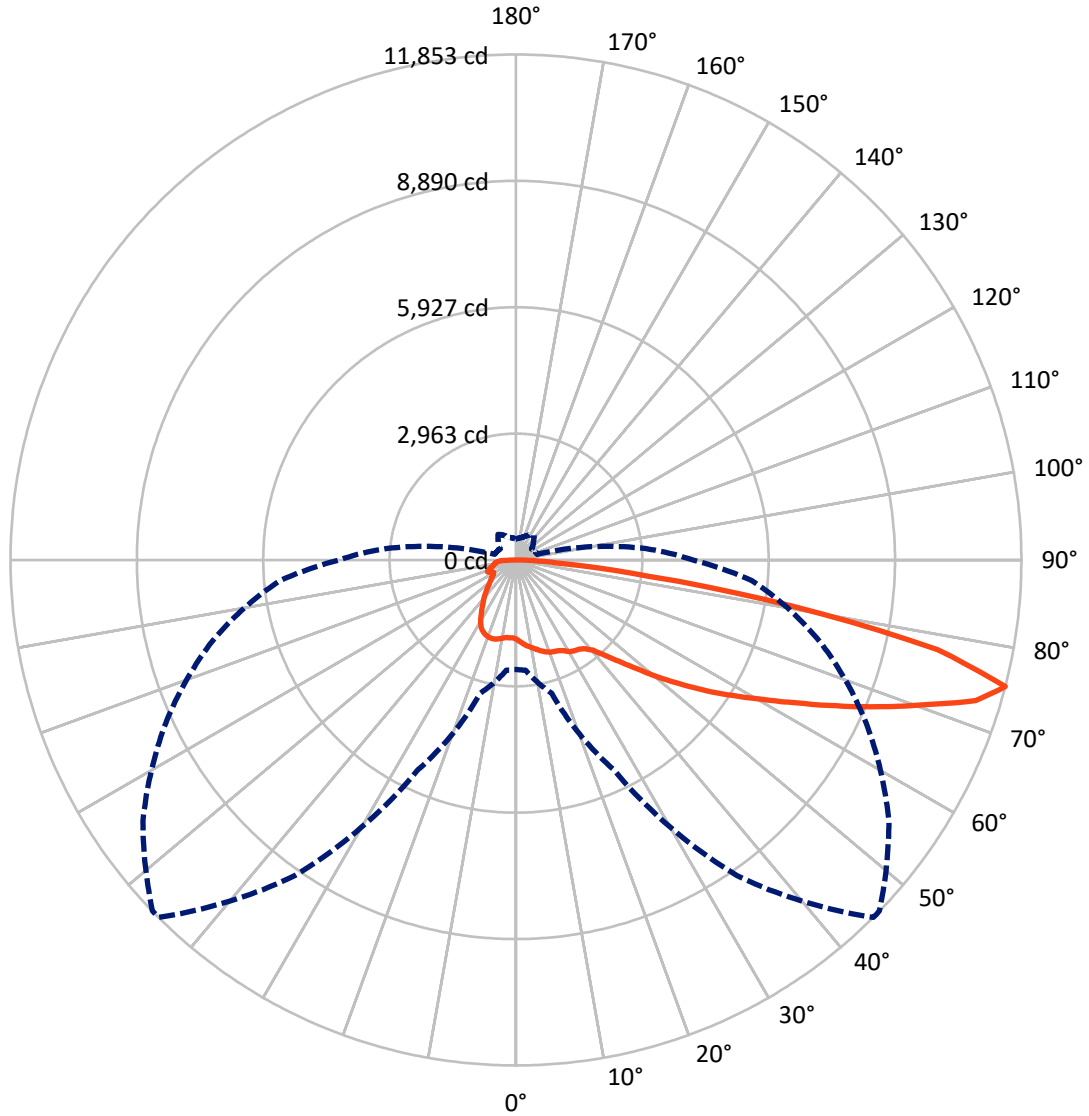
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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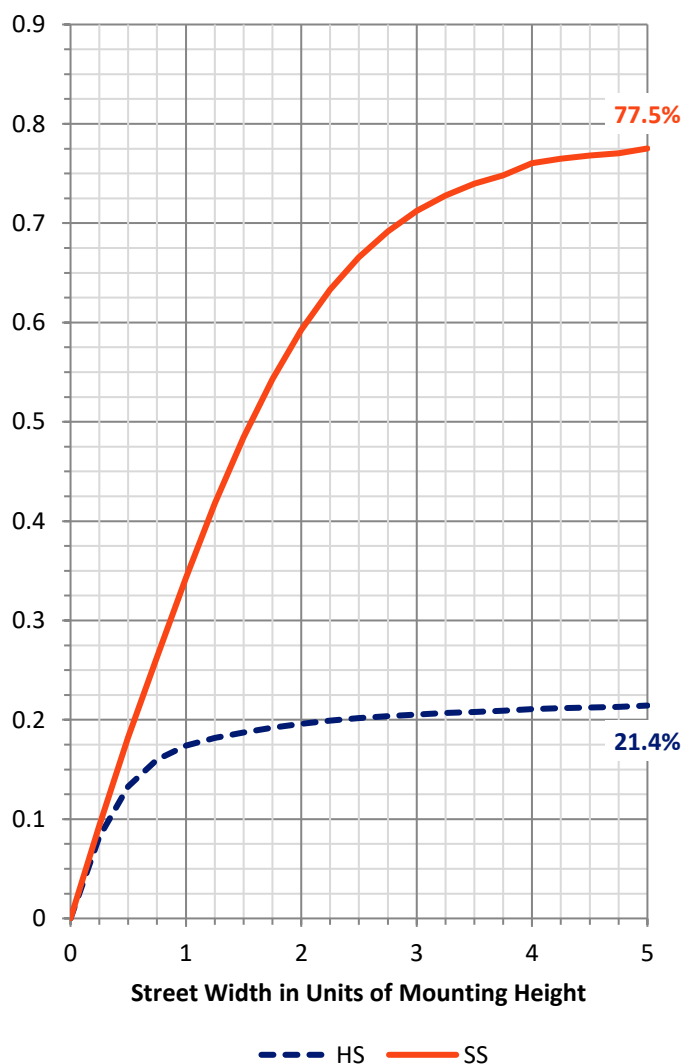
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3910.7	0.0	3910.7
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	13785.3	0.0	13785.3
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	17696.0	0.0	17696.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	1.0
10°-20°	584.9	3.3
20°-30°	997.2	5.6
30°-40°	1397.2	7.9
40°-50°	2052.7	11.6
50°-60°	3266.8	18.5
60°-70°	4647.1	26.3
70°-80°	3891.0	22.0
80°-90°	675.3	3.8
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°	17696.0	100.0
0°-180°	17696.0	100.0

**Coefficient of Utilization**



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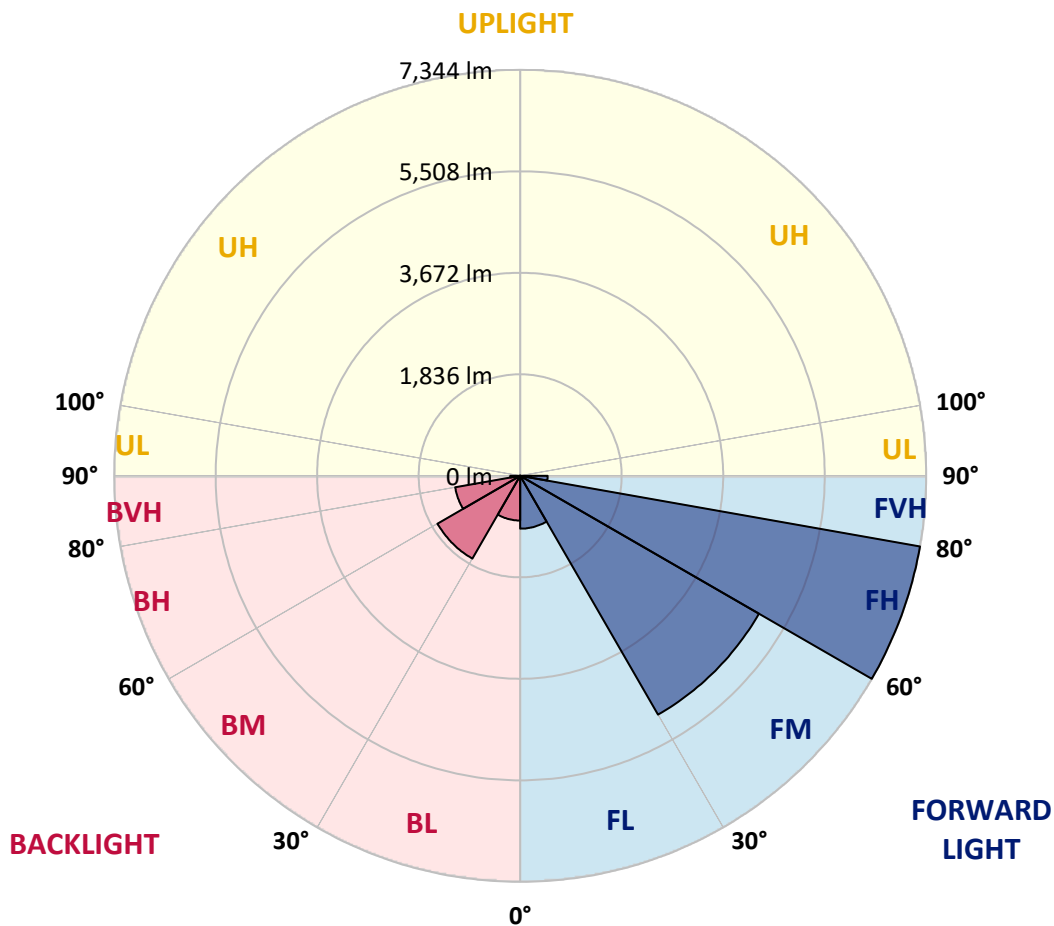
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.6	5.4			
FM (30°-60°)	4988.0	28.2			
FH (60°-80°)	7344.3	41.5			G3/7500
FVH (80°-90°)	496.4	2.8			G3/500
BL (0°-30°)	809.4	4.6	B2/1000		
BM (30°-60°)	1728.7	9.8	B2/2500		
BH (60°-80°)	1193.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	178.8	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1964.9	1955.4	1950.7	1950.7	1931.8	1919.9	1917.6	1901.0	1886.8	1872.7	1860.8
5°	2078.4	2071.3	2057.1	2045.3	2019.3	1986.1	1981.4	1946.0	1910.5	1877.4	1849.0
7.5°	2182.4	2168.2	2151.7	2128.0	2085.5	2040.5	2033.4	1983.8	1934.1	1884.5	1846.6
10°	2269.9	2255.7	2232.1	2198.9	2144.6	2090.2	2083.1	2031.1	1979.1	1919.9	1865.6
12.5°	2352.6	2340.8	2305.4	2260.4	2196.6	2146.9	2139.8	2094.9	2040.5	1974.3	1903.4
15°	2423.6	2411.8	2373.9	2321.9	2248.6	2210.8	2201.3	2158.8	2104.4	2033.4	1960.1
17.5°	2459.0	2459.0	2418.8	2362.1	2293.5	2265.2	2258.1	2206.0	2156.4	2087.8	2014.5
20°	2470.9	2475.6	2447.2	2378.6	2319.5	2307.7	2300.6	2258.1	2201.3	2135.1	2066.5
22.5°	2478.0	2487.4	2463.8	2385.7	2336.1	2329.0	2324.3	2295.9	2251.0	2187.1	2118.6
25°	2501.6	2501.6	2485.0	2397.6	2357.4	2355.0	2355.0	2338.5	2307.7	2253.3	2184.8
27.5°	2537.1	2534.7	2513.4	2423.6	2404.7	2411.8	2409.4	2407.0	2385.7	2331.4	2258.1
30°	2596.2	2596.2	2572.5	2475.6	2463.8	2494.5	2496.9	2501.6	2468.5	2383.4	2324.3
32.5°	2686.0	2676.6	2652.9	2527.6	2508.7	2537.1	2541.8	2539.4	2511.1	2430.7	2402.3
35°	2962.7	2941.4	2856.3	2643.5	2548.9	2565.4	2567.8	2579.6	2584.4	2520.5	2506.3
37.5°	3447.4	3419.0	3289.0	2917.7	2676.6	2636.4	2634.0	2664.7	2690.8	2634.0	2634.0
40°	3974.7	3951.0	3875.4	3390.6	2913.0	2780.6	2771.1	2799.5	2832.6	2792.4	2804.3
42.5°	4428.6	4447.6	4454.6	3891.9	3267.7	3050.2	3024.1	2984.0	3036.0	3000.5	3047.8
45°	4769.1	4759.7	4889.7	4405.0	3726.4	3388.3	3352.8	3244.0	3310.2	3307.9	3411.9
47.5°	5130.9	5114.3	5168.7	4887.3	4248.9	3802.1	3747.7	3586.9	3686.2	3754.8	3927.4
50°	5473.7	5478.5	5497.4	5268.0	4816.4	4305.7	4237.1	4022.0	4163.8	4308.0	4551.6
52.5°	5920.6	5887.5	5863.9	5712.5	5452.4	4830.6	4785.7	4539.8	4738.4	4908.6	5232.6
55°	6310.7	6289.5	6275.3	6268.2	5984.5	5409.9	5362.6	5107.2	5393.3	5513.9	5991.5
57.5°	6726.9	6715.1	6790.7	6911.3	6797.8	5998.6	5949.0	5703.1	6022.3	6107.4	6814.4
60°	7031.9	7039.0	7247.1	7554.5	7476.4	6637.0	6577.9	6360.4	6634.7	6710.3	7637.2
62.5°	7034.3	7105.2	7587.6	8138.5	8228.3	7372.4	7303.8	7067.4	7263.6	7263.6	8374.9
65°	6362.8	6443.2	7526.1	8282.7	8989.7	8247.2	8181.0	7809.8	7883.1	7783.8	9067.7
67.5°	5693.6	5788.2	6807.3	8294.5	9524.1	9183.6	9105.5	8552.3	8426.9	8176.3	9552.4
70°	5249.1	5315.3	6166.5	8140.8	9845.6	10162.5	10103.3	9256.9	8854.9	8505.0	9450.8
72.5°	4419.2	4395.5	5208.9	7410.2	10025.3	11273.8	11224.1	10023.0	9226.1	8348.9	8060.5
75°	2565.4	2593.8	3232.2	5428.8	9037.0	11853.0	11848.3	10677.9	9063.0	7374.8	5554.1
77.5°	740.1	761.4	1061.6	2385.7	5714.9	10110.4	10434.4	9765.2	7660.9	5256.2	2879.9
80°	323.9	340.5	461.1	794.5	2461.4	6603.9	6887.7	6603.9	4620.2	2411.8	1130.2
82.5°	191.5	203.3	300.3	491.8	1179.9	3142.4	3525.4	3078.5	1993.2	1023.8	468.2
85°	108.8	113.5	172.6	312.1	742.4	1099.5	1234.2	1156.2	971.8	581.7	245.9
87.5°	49.7	52.0	85.1	146.6	416.1	371.2	385.4	510.7	562.7	354.7	123.0
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°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1856.1	1849.0	1834.8	1830.1	1823.0	1825.4	1827.7	1827.7	1830.1	1823.0	1823.0
5°	1837.2	1825.4	1811.2	1811.2	1811.2	1830.1	1846.6	1856.1	1860.8	1860.8	1856.1
7.5°	1830.1	1815.9	1799.4	1804.1	1808.8	1832.5	1863.2	1893.9	1903.4	1903.4	1898.7
10°	1844.3	1830.1	1818.3	1825.4	1837.2	1856.1	1879.7	1908.1	1931.8	1934.1	1931.8
12.5°	1877.4	1860.8	1849.0	1863.2	1877.4	1889.2	1901.0	1912.8	1943.6	1948.3	1948.3
15°	1931.8	1915.2	1901.0	1912.8	1917.6	1917.6	1917.6	1917.6	1948.3	1953.0	1953.0
17.5°	1986.1	1972.0	1957.8	1960.1	1946.0	1927.0	1919.9	1917.6	1934.1	1948.3	1950.7
20°	2038.2	2026.3	2012.2	1988.5	1953.0	1917.6	1905.8	1905.8	1915.2	1936.5	1936.5
22.5°	2094.9	2080.7	2057.1	2002.7	1943.6	1893.9	1882.1	1889.2	1901.0	1929.4	1927.0
25°	2158.8	2139.8	2099.6	1998.0	1912.8	1853.7	1856.1	1877.4	1898.7	1929.4	1929.4
27.5°	2229.7	2203.7	2123.3	1960.1	1844.3	1787.5	1808.8	1858.5	1889.2	1922.3	1927.0
30°	2307.7	2284.1	2142.2	1893.9	1733.2	1681.1	1733.2	1813.5	1860.8	1891.6	1898.7
32.5°	2402.3	2383.4	2158.8	1808.8	1588.9	1544.0	1619.7	1719.0	1794.6	1830.1	1837.2
35°	2520.5	2501.6	2180.0	1711.9	1454.1	1406.9	1475.4	1577.1	1676.4	1721.3	1735.5
37.5°	2674.2	2645.8	2198.9	1607.8	1340.7	1286.3	1319.4	1411.6	1501.4	1562.9	1579.5
40°	2870.5	2825.5	2215.5	1489.6	1241.3	1179.9	1191.7	1236.6	1288.6	1343.0	1364.3
42.5°	3147.1	3057.2	2217.9	1364.3	1139.7	1082.9	1078.2	1092.4	1092.4	1092.4	1099.5
45°	3532.5	3362.3	2222.6	1246.1	1035.6	976.5	962.3	957.6	922.1	853.6	848.8
47.5°	4019.6	3761.9	2243.9	1146.8	926.9	874.9	855.9	837.0	770.8	699.9	685.7
50°	4643.8	4225.3	2286.4	1052.2	834.7	799.2	775.5	730.6	657.3	602.9	588.8
52.5°	5362.6	4776.2	2326.6	952.9	766.1	742.4	714.1	659.7	581.7	548.6	543.8
55°	6187.8	5391.0	2407.0	865.4	707.0	690.4	664.4	612.4	553.3	529.6	527.3
57.5°	7031.9	6079.0	2520.5	787.4	650.2	640.8	640.8	595.8	558.0	548.6	548.6
60°	7845.3	6670.1	2433.0	714.1	598.2	602.9	647.9	636.0	607.7	619.5	626.6
62.5°	8476.6	7017.7	1974.3	655.0	560.4	602.9	718.8	718.8	685.7	681.0	681.0
65°	8746.1	7013.0	1387.9	610.0	546.2	662.0	801.6	763.7	676.2	643.1	636.0
67.5°	8677.6	6705.6	957.6	579.3	541.5	723.5	839.4	733.0	633.7	605.3	584.0
70°	8074.6	6055.4	737.7	550.9	534.4	697.5	827.6	697.5	600.6	574.6	555.6
72.5°	6514.1	4856.6	612.4	522.5	506.0	645.5	787.4	664.4	574.6	546.2	527.3
75°	4154.4	3054.9	517.8	484.7	451.6	579.3	733.0	631.3	546.2	508.4	494.2
77.5°	1998.0	1317.0	451.6	439.8	406.7	536.7	678.6	588.8	508.4	477.6	468.2
80°	808.6	602.9	392.5	394.9	373.6	510.7	640.8	548.6	470.5	437.4	420.9
82.5°	420.9	349.9	331.0	340.5	340.5	487.1	612.4	515.5	437.4	423.2	368.9
85°	227.0	217.5	255.4	274.3	295.6	439.8	569.8	480.0	399.6	342.8	331.0
87.5°	111.1	141.9	144.2	165.5	205.7	352.3	480.0	402.0	333.4	276.6	271.9
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)