

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: P381119

Luminaire Tested: **PRV-PA2B-730-U-T2U**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2B-730-U-T2U  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17963 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

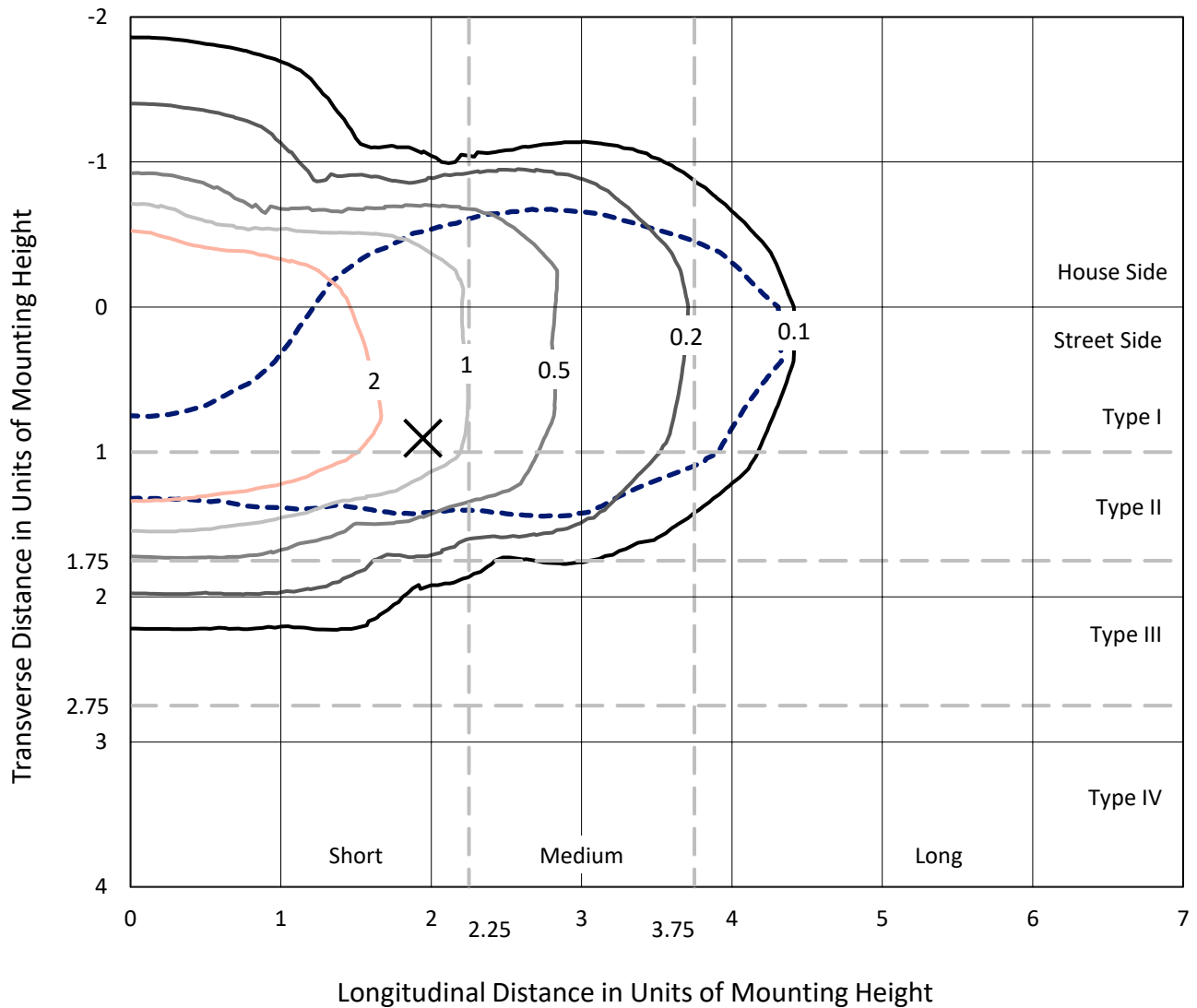
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

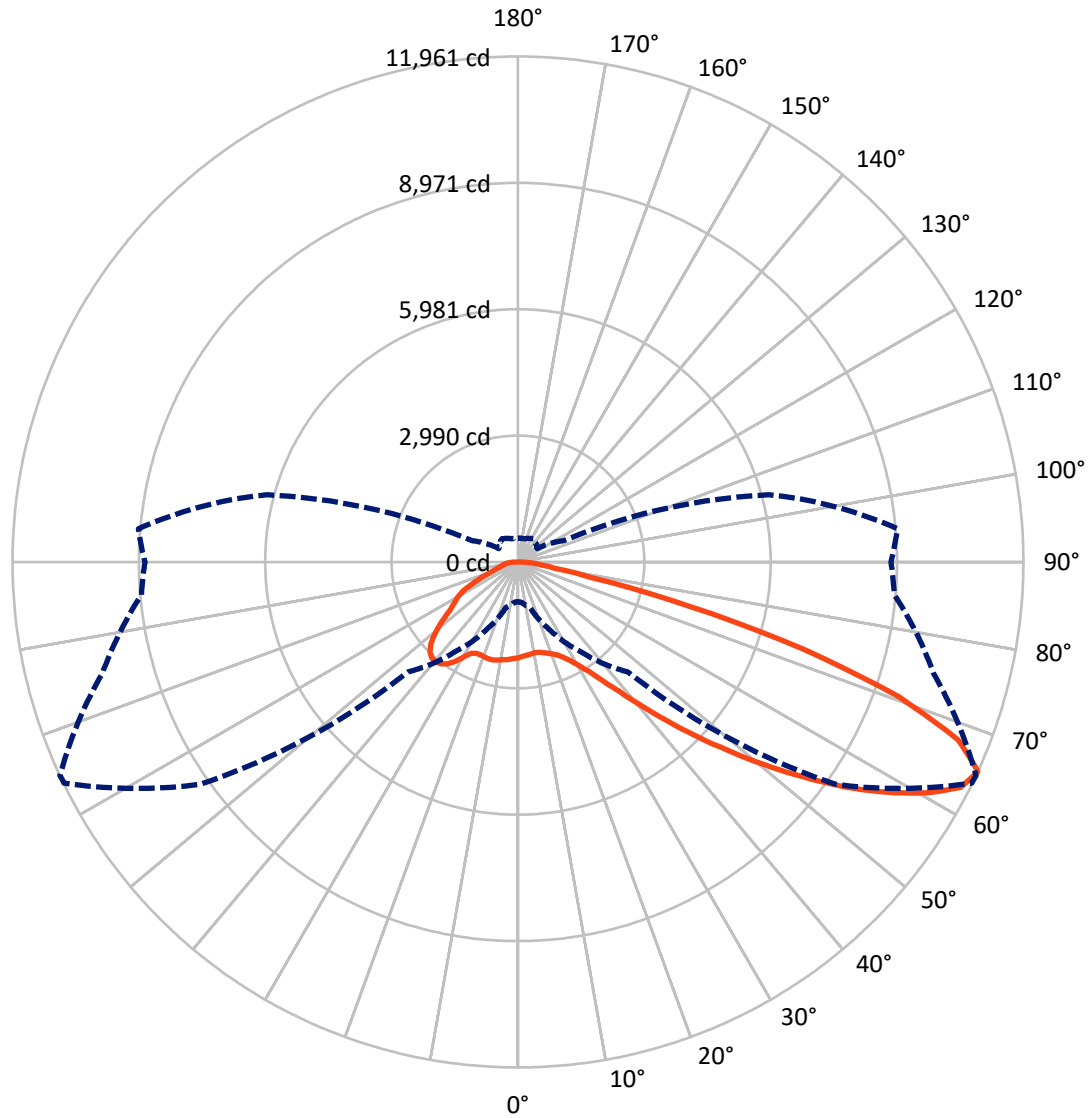
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - Horizontal Cone Through 65-Deg Vertical

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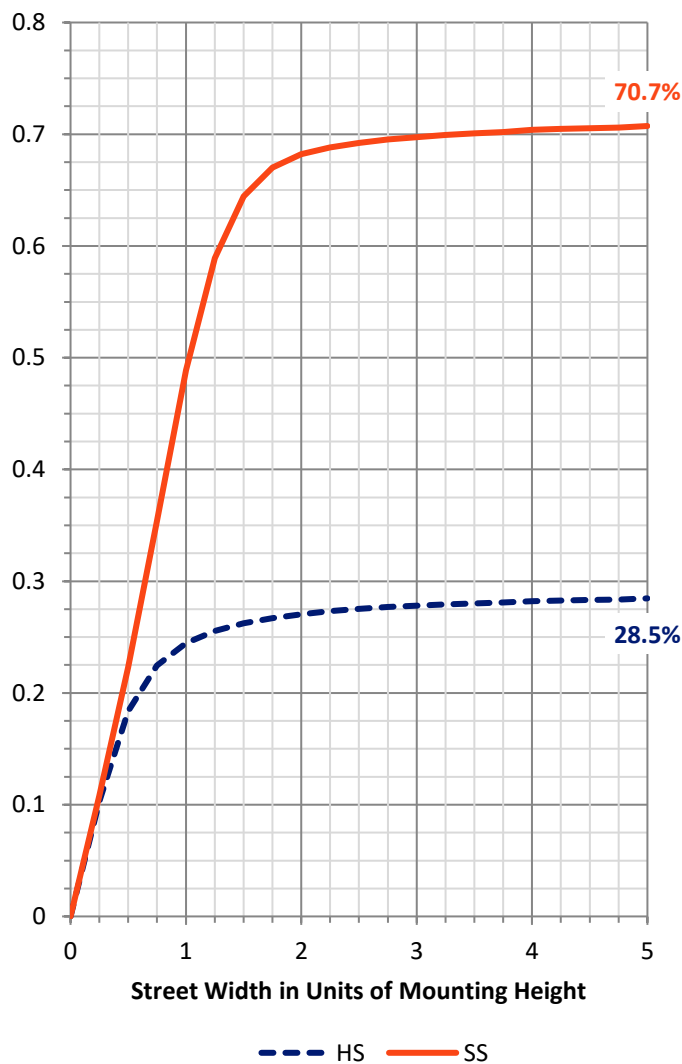
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5193.4	0.0	5193.4
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	12769.6	0.0	12769.6
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	17963.0	0.0	17963.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.2	1.2
10°-20°	645.6	3.6
20°-30°	1146.8	6.4
30°-40°	1940.1	10.8
40°-50°	3377.4	18.8
50°-60°	4364.7	24.3
60°-70°	3819.3	21.3
70°-80°	2077.4	11.6
80°-90°	375.4	2.1
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°	17963.0	100.0
0°-180°	17963.0	100.0

**Coefficient of Utilization**

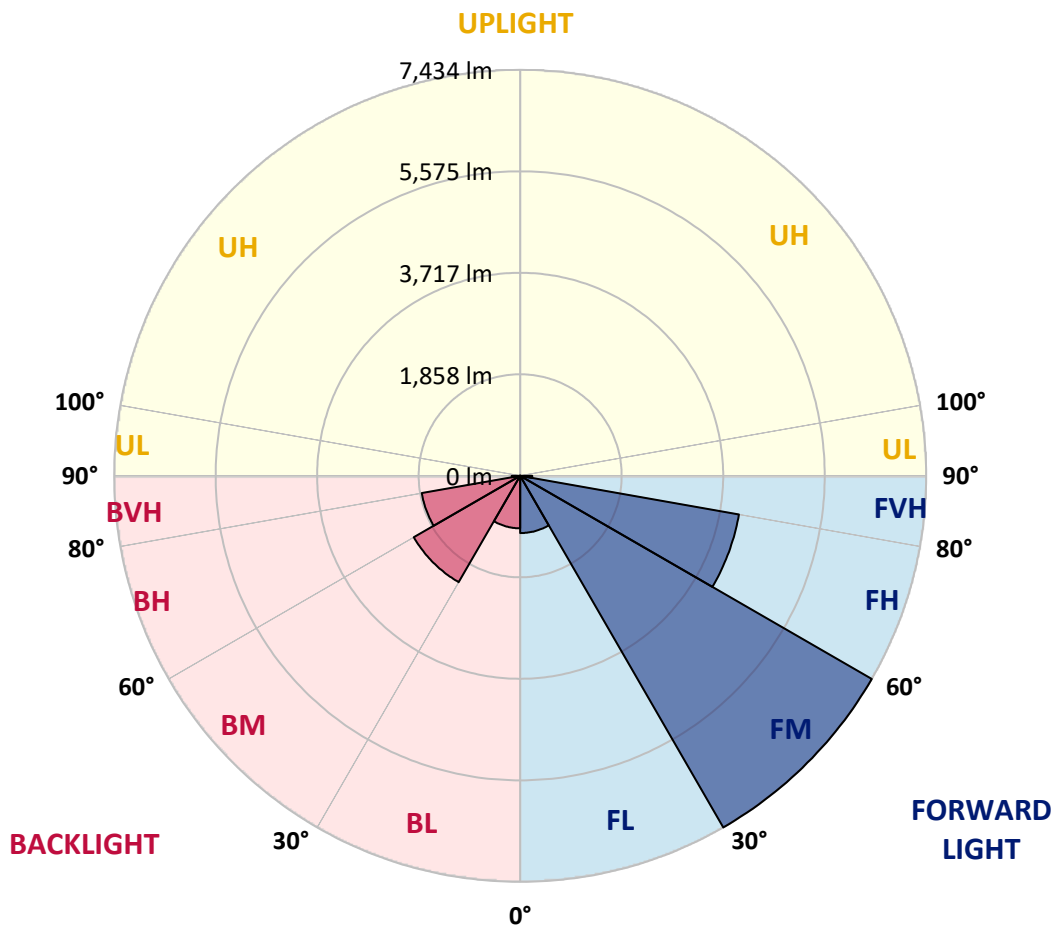


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.1	5.8			
FM (30°-60°)	7433.6	41.4			
FH (60°-80°)	4067.1	22.6			G2/5000
FVH (80°-90°)	220.9	1.2			G2/225
BL (0°-30°)	960.6	5.3	B2/1000		
BM (30°-60°)	2248.6	12.5	B2/2500		
BH (60°-80°)	1829.7	10.2	B3/2500		G3/2500
BVH (80°-90°)	154.5	0.9			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8
2.5°	2229.6	2227.2	2222.5	2227.2	2229.6	2234.3	2232.0	2236.7	2234.3	2241.4	2253.2
5°	2172.9	2168.1	2165.8	2177.6	2184.7	2196.5	2201.2	2217.8	2215.4	2227.2	2246.2
7.5°	2109.0	2109.0	2106.7	2120.8	2130.3	2151.6	2168.1	2196.5	2198.9	2220.1	2241.4
10°	2059.4	2061.7	2059.4	2071.2	2085.4	2111.4	2139.8	2180.0	2182.3	2213.1	2234.3
12.5°	2040.5	2040.5	2040.5	2057.0	2075.9	2111.4	2144.5	2187.0	2191.8	2224.9	2243.8
15°	2066.5	2068.8	2064.1	2080.6	2101.9	2144.5	2175.2	2220.1	2224.9	2255.6	2267.4
17.5°	2158.7	2168.1	2156.3	2165.8	2161.0	2194.1	2222.5	2267.4	2269.8	2295.8	2300.5
20°	2340.7	2350.2	2331.3	2319.4	2276.9	2274.5	2286.3	2321.8	2321.8	2338.4	2326.5
22.5°	2622.1	2631.5	2598.4	2553.5	2451.9	2402.2	2376.2	2392.7	2390.4	2397.5	2366.7
25°	2995.7	2993.3	2953.1	2870.3	2707.2	2586.6	2522.8	2496.8	2496.8	2482.6	2444.8
27.5°	3459.1	3423.6	3352.7	3253.4	3026.4	2858.5	2721.4	2655.2	2643.4	2600.8	2529.9
30°	3953.2	3927.2	3825.6	3681.3	3418.9	3203.7	2976.7	2844.3	2837.2	2745.0	2638.6
32.5°	4534.9	4492.3	4378.8	4206.2	3891.8	3589.1	3305.4	3104.4	3092.6	2946.0	2799.4
35°	5282.0	5246.5	5026.7	4854.1	4449.7	4052.5	3716.8	3449.6	3440.2	3260.5	3073.7
37.5°	6178.1	6085.9	5873.1	5549.2	5123.6	4653.1	4227.5	3891.8	3879.9	3681.3	3444.9
40°	6977.3	6894.5	6705.4	6407.5	5951.1	5428.6	4851.7	4445.0	4433.2	4192.0	3894.1
42.5°	7568.4	7511.6	7388.7	7216.1	6889.8	6573.0	5648.5	5114.1	5092.9	4780.8	4409.6
45°	7911.2	7866.3	7795.3	7837.9	7833.2	7774.1	6599.0	5910.9	5842.4	5438.1	4984.1
47.5°	7828.4	7788.2	7816.6	8147.6	8604.0	8946.8	7705.5	6726.6	6634.4	6107.2	5596.5
50°	7230.3	7246.8	7395.8	8029.4	9053.2	9814.5	8932.6	7655.8	7532.9	6781.0	6178.1
52.5°	6140.3	6180.5	6542.2	7428.9	9003.5	10377.2	10041.5	8615.8	8452.6	7438.3	6707.7
55°	4877.7	4979.4	5447.5	6379.1	8355.7	10417.4	10878.5	9580.4	9400.7	8055.4	7168.8
57.5°	3608.0	3759.4	4300.8	5156.7	7114.4	9781.4	11297.0	10502.5	10285.0	8667.8	7655.8
60°	2288.7	2380.9	3005.1	4014.7	5445.2	8225.7	11242.6	11287.5	11098.4	9277.8	8164.2
62.5°	1461.2	1506.1	1820.6	2863.3	3806.6	6090.6	10649.1	11881.0	11753.3	9833.4	8646.5
65°	938.7	957.6	1118.3	1761.5	2591.4	3676.6	9171.4	11944.8	11961.4	10181.0	8944.4
67.5°	763.7	773.1	832.3	1087.6	1832.4	2031.0	6388.5	11036.9	11237.9	10091.1	8842.8
70°	695.1	706.9	768.4	867.7	1418.6	1402.1	3092.6	9235.2	9563.9	9573.3	8391.2
72.5°	586.4	602.9	685.7	820.4	1097.1	1106.5	1309.9	6577.7	7062.4	8556.7	7712.6
75°	489.4	498.9	569.8	723.5	929.2	884.3	919.7	3487.5	4187.3	6861.4	6991.5
77.5°	397.2	406.7	458.7	576.9	825.2	688.0	723.5	1444.6	1785.1	4657.8	5714.7
80°	283.7	293.2	352.3	449.2	624.2	619.5	536.7	796.8	865.4	2518.1	3712.1
82.5°	203.3	210.4	267.2	321.6	432.7	621.8	404.3	541.4	567.4	1116.0	1496.6
85°	137.1	137.1	184.4	212.8	279.0	392.5	326.3	366.5	383.0	529.6	404.3
87.5°	59.1	59.1	99.3	108.8	146.6	182.1	243.5	184.4	189.1	286.1	165.5
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°	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8	2269.8
2.5°	2260.3	2262.7	2267.4	2281.6	2291.1	2305.3	2312.4	2321.8	2321.8	2317.1	2319.4
5°	2255.6	2262.7	2279.3	2305.3	2321.8	2347.8	2366.7	2380.9	2385.7	2380.9	2383.3
7.5°	2253.2	2265.1	2293.4	2331.3	2354.9	2388.0	2414.0	2430.6	2442.4	2437.7	2440.0
10°	2246.2	2265.1	2300.5	2347.8	2383.3	2416.4	2440.0	2447.1	2454.2	2449.5	2447.1
12.5°	2255.6	2276.9	2314.7	2371.5	2411.7	2437.7	2444.8	2432.9	2416.4	2406.9	2404.6
15°	2274.5	2295.8	2333.6	2392.7	2428.2	2437.7	2421.1	2383.3	2345.5	2324.2	2321.8
17.5°	2300.5	2314.7	2345.5	2397.5	2425.8	2414.0	2380.9	2336.0	2307.6	2291.1	2293.4
20°	2317.1	2317.1	2340.7	2380.9	2404.6	2395.1	2354.9	2305.3	2260.3	2239.1	2232.0
22.5°	2340.7	2328.9	2331.3	2366.7	2399.8	2385.7	2300.5	2213.1	2149.2	2125.6	2123.2
25°	2404.6	2371.5	2350.2	2371.5	2449.5	2333.6	2163.4	2061.7	2002.6	1981.3	1983.7
27.5°	2482.6	2437.7	2392.7	2428.2	2489.7	2215.4	1988.4	1872.6	1837.1	1820.6	1827.7
30°	2560.6	2501.5	2442.4	2570.1	2461.3	2031.0	1763.8	1650.3	1619.6	1607.8	1617.2
32.5°	2704.8	2607.9	2537.0	2759.2	2373.8	1820.6	1520.3	1416.3	1387.9	1373.7	1369.0
35°	2946.0	2823.1	2752.1	2924.7	2250.9	1586.5	1298.0	1224.7	1194.0	1163.3	1158.5
37.5°	3293.6	3144.6	3080.8	3019.3	2078.3	1354.8	1127.8	1078.2	1033.2	985.9	983.6
40°	3709.7	3515.8	3468.5	3061.9	1839.5	1137.3	1009.6	962.3	905.6	860.6	863.0
42.5°	4189.7	3941.4	3839.7	3050.0	1543.9	1021.4	924.5	872.5	822.8	782.6	780.2
45°	4702.7	4421.4	4187.3	2967.3	1250.8	941.0	872.5	811.0	761.3	716.4	711.7
47.5°	5270.2	4955.7	4508.9	2806.5	1033.2	884.3	841.7	754.2	709.3	680.9	680.9
50°	5842.4	5466.4	4804.4	2563.0	905.6	841.7	796.8	723.5	688.0	664.4	664.4
52.5°	6331.8	5998.4	5047.9	2272.2	825.2	806.3	766.1	709.3	671.5	650.2	647.8
55°	6807.0	6492.6	5265.5	1983.7	759.0	759.0	759.0	697.5	654.9	636.0	633.7
57.5°	7279.9	7012.7	5492.4	1794.6	699.9	718.8	744.8	683.3	640.7	624.2	621.8
60°	7814.3	7636.9	5754.9	1662.2	647.8	676.2	725.9	666.8	617.1	602.9	600.6
62.5°	8381.7	8381.7	5993.7	1475.4	600.6	640.7	697.5	645.5	595.8	584.0	581.6
65°	8826.2	9017.7	6147.4	1196.4	553.3	605.3	664.4	617.1	567.4	565.1	560.4
67.5°	8878.2	9178.5	6050.4	903.2	510.7	567.4	631.3	586.4	539.1	539.1	532.0
70°	8504.6	8809.7	5747.8	676.2	480.0	529.6	588.7	548.5	503.6	508.3	496.5
72.5°	7880.5	7956.1	4995.9	534.3	444.5	489.4	536.7	506.0	465.8	465.8	449.2
75°	7057.7	6636.8	3629.3	446.9	401.9	442.1	484.7	458.7	423.2	411.4	401.9
77.5°	5617.8	4809.1	2109.0	385.4	366.5	397.2	425.6	406.7	375.9	349.9	349.9
80°	3423.6	2818.3	931.6	333.4	323.9	347.6	366.5	345.2	319.2	293.2	286.1
82.5°	1302.8	1087.6	451.6	286.1	283.7	297.9	312.1	290.8	271.9	260.1	224.6
85°	357.0	328.6	309.7	238.8	234.1	231.7	248.3	238.8	212.8	175.0	156.0
87.5°	134.8	153.7	167.9	146.6	156.0	144.2	165.5	151.3	134.8	87.5	78.0
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)