

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: P286940

Luminaire Tested: **PRV-C40-D-UNV-T2-BZ-7030**

Issue Date: 3/4/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P286940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 3/4/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-C40-D-UNV-T2-BZ-7030  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16860 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

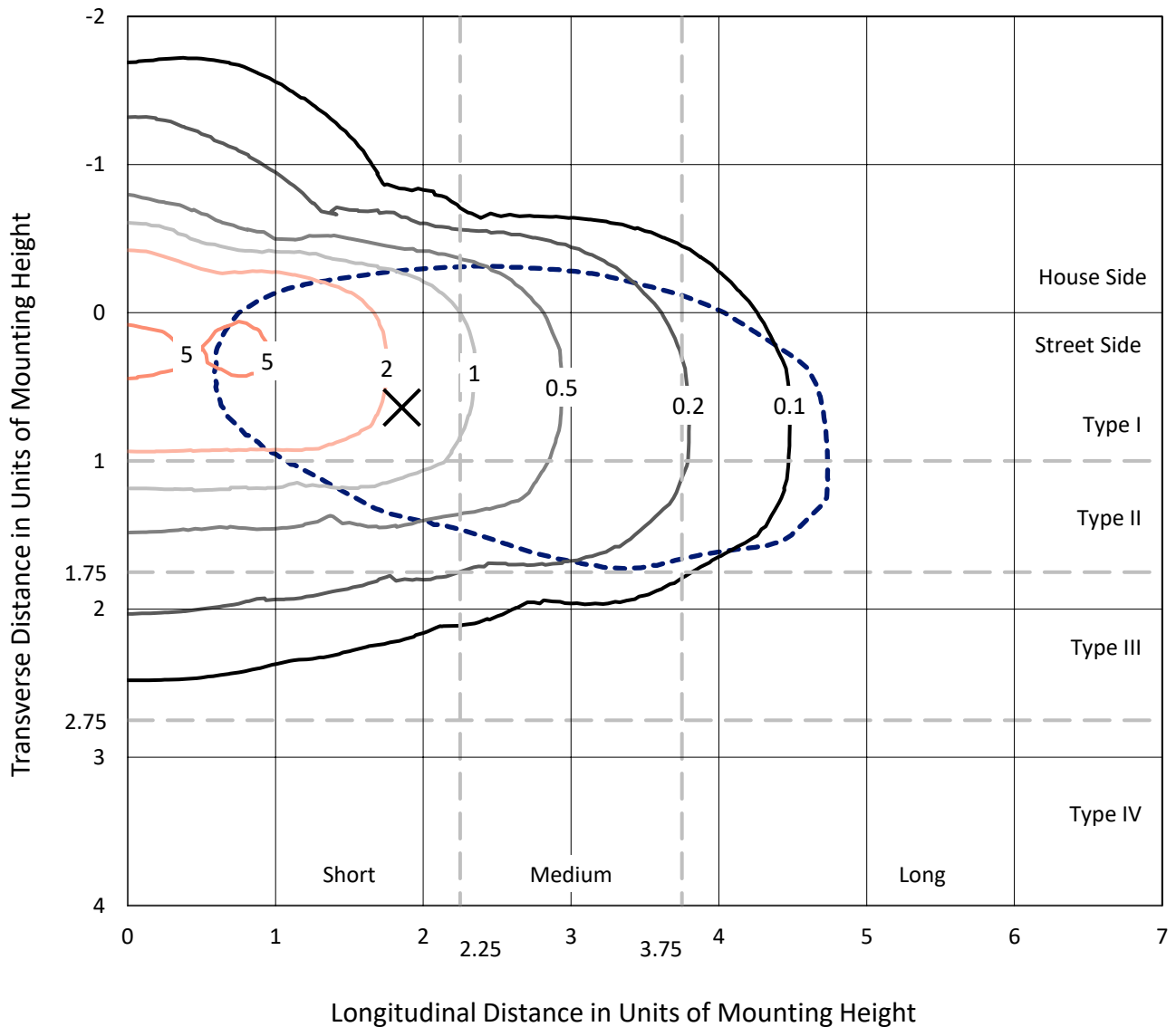
Input Watts (W): 131  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

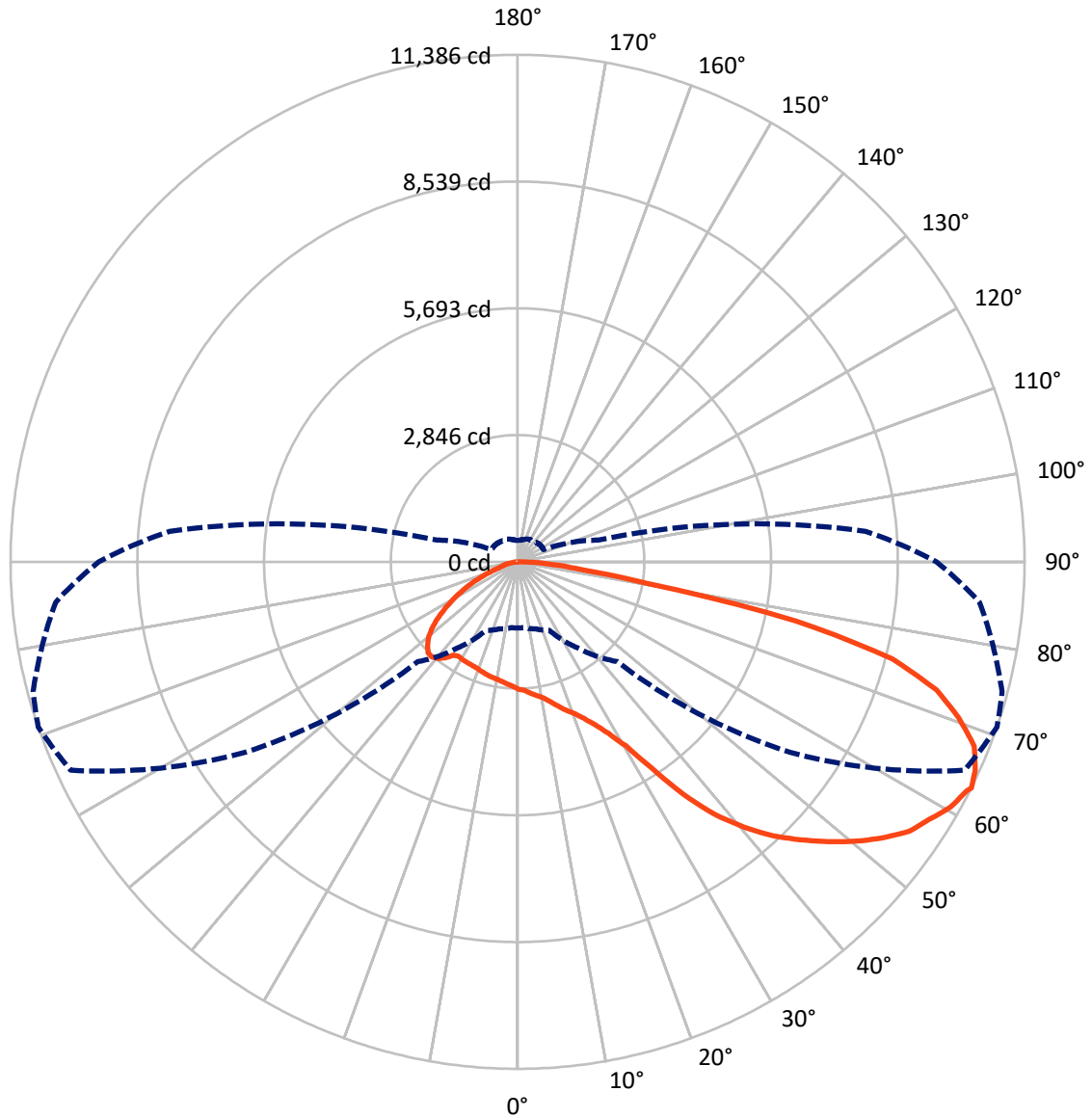
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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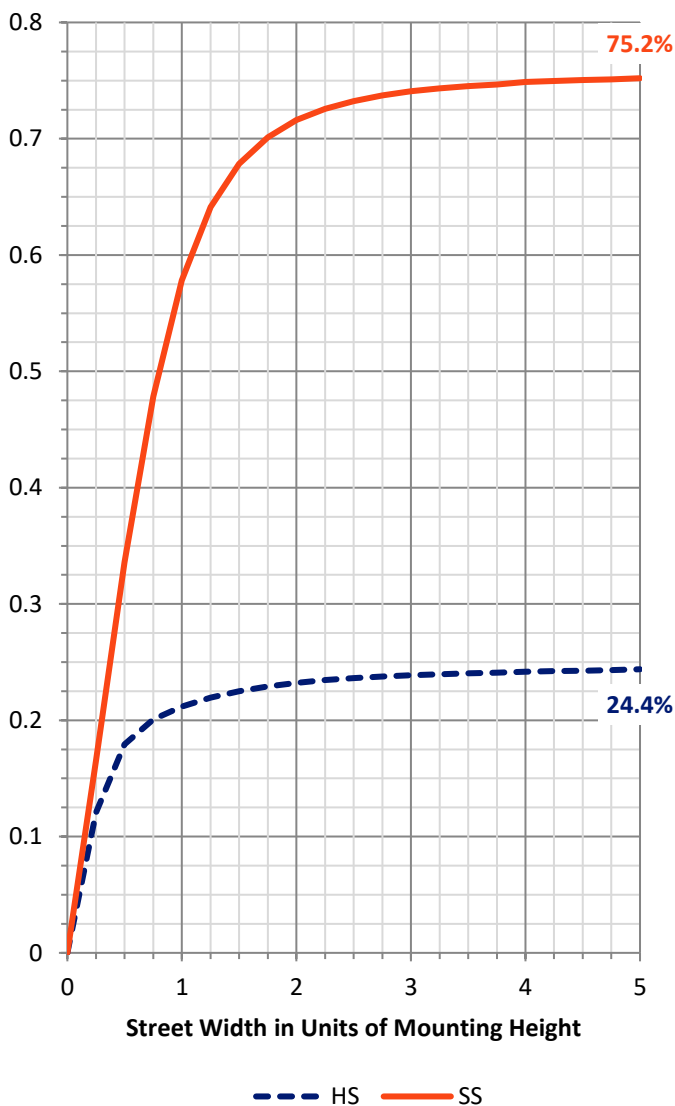
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4181.5	0.0	4181.5
	% Fixture	24.8	0.0	24.8
<b>Street Side</b>	Lumens	12678.5	0.0	12678.5
	% Fixture	75.2	0.0	75.2
<b>Total</b>	Lumens	16860.0	0.0	16860.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.2	1.6
10°-20°	839.0	5.0
20°-30°	1416.7	8.4
30°-40°	2129.1	12.6
40°-50°	2926.6	17.4
50°-60°	3402.9	20.2
60°-70°	3383.2	20.1
70°-80°	2135.4	12.7
80°-90°	351.8	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°	16860.0	100.0
0°-180°	16860.0	100.0

**Coefficient of Utilization**



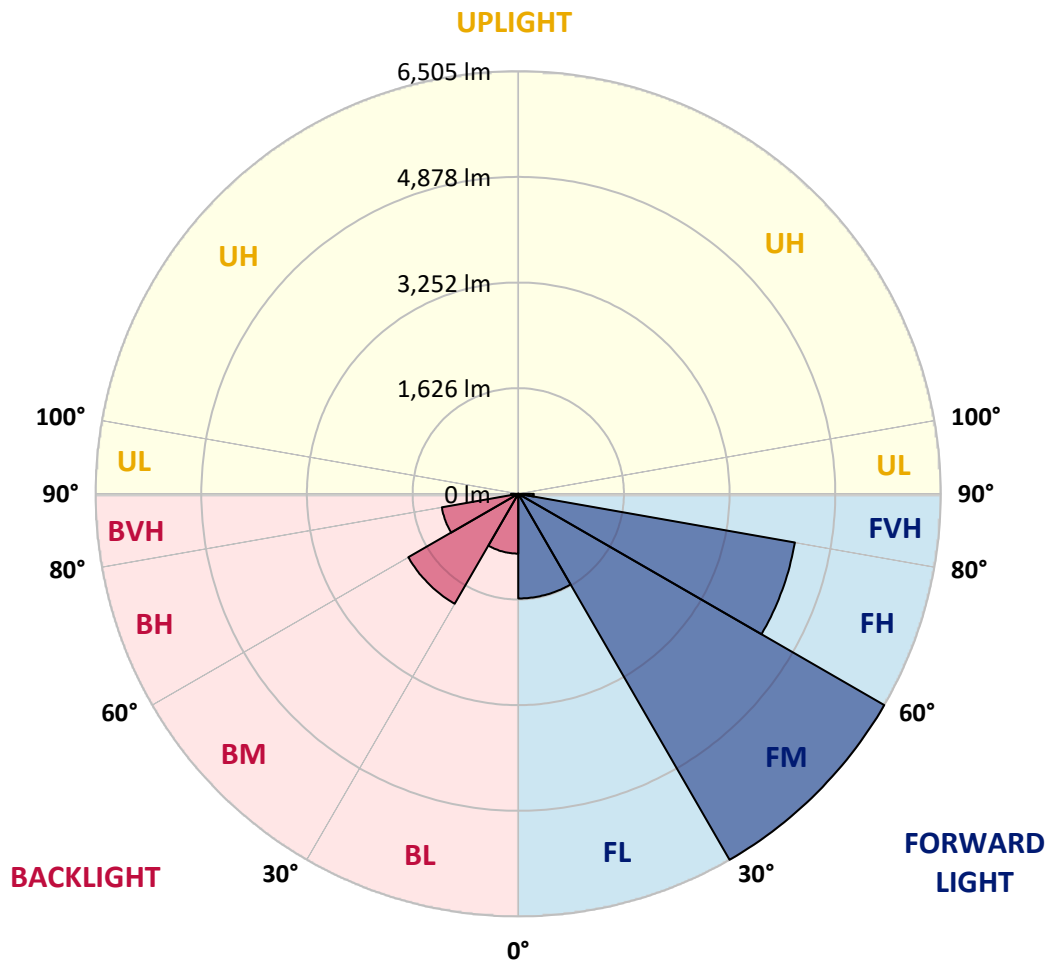
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1610.6	9.6			
FM (30°-60°)	6504.6	38.6			
FH (60°-80°)	4324.0	25.6			G2/5000
FVH (80°-90°)	239.3	1.4			G3/500
BL (0°-30°)	920.3	5.5	B2/1000		
BM (30°-60°)	1954.1	11.6	B2/2500		
BH (60°-80°)	1194.6	7.1	B3/2500		G3/2500
BVH (80°-90°)	112.5	0.7			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°	65°	71°	75°	85°
0°	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9
2.5°	3064.3	3059.4	3052.8	3010.8	3003.4	2977.9	2950.7	2921.1	2888.2	2892.3	2852.0
5°	3236.3	3225.6	3221.5	3158.9	3112.8	3084.9	3047.8	2980.4	2961.4	2946.6	2868.4
7.5°	3374.5	3379.4	3370.4	3311.1	3265.1	3219.0	3153.2	3053.6	3028.9	2997.6	2920.3
10°	3486.4	3498.8	3492.2	3424.7	3385.2	3339.9	3260.1	3158.1	3101.3	3056.1	2932.6
12.5°	3621.4	3614.0	3615.6	3551.4	3516.9	3455.1	3396.7	3280.7	3215.7	3153.2	2989.4
15°	3790.0	3780.2	3767.8	3706.1	3654.3	3618.1	3555.5	3426.3	3355.6	3296.3	3079.9
17.5°	3939.8	3905.2	3899.5	3831.2	3790.0	3741.5	3698.7	3588.4	3500.4	3423.9	3179.5
20°	4040.2	4022.9	3999.9	3960.4	3943.1	3906.9	3853.4	3732.4	3633.7	3555.5	3264.2
22.5°	4107.7	4097.8	4097.8	4085.4	4093.7	4078.9	4036.1	3921.7	3820.5	3709.4	3394.2
25°	4127.4	4097.0	4140.6	4188.3	4245.9	4271.4	4231.9	4152.9	4051.7	3943.1	3562.1
27.5°	4141.4	4136.5	4190.8	4272.2	4417.9	4476.3	4476.3	4431.9	4366.9	4238.5	3805.7
30°	4143.0	4144.7	4217.9	4343.8	4540.5	4702.6	4710.8	4829.3	4795.6	4696.8	4178.4
32.5°	4025.4	4021.3	4131.5	4351.2	4635.1	4893.5	5027.6	5352.6	5508.1	5514.7	4989.8
35°	3787.6	3818.0	3991.6	4278.8	4701.8	5110.7	5420.9	6083.3	6419.9	6411.6	5782.2
37.5°	3600.0	3624.6	3824.6	4201.5	4745.4	5309.0	5862.8	6894.6	7205.7	7178.5	6413.3
40°	3429.6	3458.4	3657.6	4066.5	4730.6	5534.5	6354.0	7596.5	7832.7	7794.8	7007.4
42.5°	3225.6	3247.0	3444.4	3878.1	4688.6	5689.2	6795.9	8237.5	8414.4	8312.4	7472.3
45°	3023.1	3038.8	3254.4	3631.2	4556.1	5791.2	7237.0	8820.1	8902.4	8820.9	7985.7
47.5°	2766.4	2782.1	3031.4	3415.6	4328.2	5787.9	7649.2	9311.4	9388.7	9280.1	8372.5
50°	2127.1	2142.7	2653.7	3195.1	4010.6	5709.7	7979.2	9766.4	9862.7	9703.9	8808.6
52.5°	1932.9	1940.3	2079.3	2921.1	3604.9	5491.7	8219.4	10173.7	10291.4	10118.6	9187.1
55°	1844.0	1837.4	1894.2	2352.5	3292.2	5144.4	8402.1	10559.6	10679.7	10506.1	9524.5
57.5°	1704.1	1714.8	1811.1	2014.3	3009.2	4510.9	8337.1	10921.7	10910.1	10776.8	9856.1
60°	1603.7	1608.7	1704.1	1848.9	2670.1	3790.0	8062.3	11122.4	11177.6	10999.8	10142.4
62.5°	1499.2	1505.8	1587.3	1718.9	2406.0	3260.9	7621.2	11110.9	11319.9	11210.5	10401.6
63°	1486.1	1484.4	1558.5	1701.7	2365.7	3171.3	7459.1	11074.7	11385.8	11262.3	10414.0
65°	1382.4	1389.0	1468.0	1599.6	2192.9	2925.2	7000.8	10830.3	11293.6	11304.3	10527.5
67.5°	1231.8	1241.7	1309.2	1430.9	1862.9	2565.6	5797.8	10689.6	11059.9	11124.9	10384.3
70°	1054.1	1064.8	1135.5	1248.3	1579.0	2190.4	4309.3	10079.1	10511.1	10627.1	9737.6
72.5°	835.2	849.2	938.9	1052.4	1295.2	1799.6	3033.0	9081.8	9836.3	9860.2	8834.9
75°	544.7	555.4	685.4	844.2	1047.5	1425.2	2003.6	6953.1	8687.6	8834.1	7572.7
77.5°	321.7	336.5	400.7	464.9	663.2	1073.8	1301.7	3702.8	6399.3	6865.8	5975.5
80°	87.2	96.3	303.6	354.6	423.8	463.3	801.5	2044.0	2962.3	3761.2	4024.6
82.5°	45.3	56.0	169.5	227.9	242.7	235.3	370.3	950.4	1448.2	1696.7	2020.9
85°	20.6	24.7	56.0	83.1	67.5	64.2	123.4	496.2	809.7	939.7	1016.2
87.5°	7.4	9.1	19.7	30.4	18.1	14.0	17.3	149.8	312.7	395.0	358.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9	2861.9
2.5°	2823.2	2847.9	2815.0	2777.1	2750.8	2736.0	2723.6	2695.7	2703.9	2714.6	2712.9
5°	2850.3	2853.6	2777.1	2728.6	2671.0	2638.1	2625.7	2578.0	2582.9	2587.9	2587.0
7.5°	2867.6	2837.2	2744.2	2673.4	2612.5	2562.3	2515.4	2467.7	2458.7	2467.7	2475.1
10°	2872.6	2826.5	2721.2	2622.4	2540.1	2468.5	2427.4	2352.5	2339.4	2357.5	2369.0
12.5°	2917.8	2841.3	2704.7	2588.7	2492.4	2397.8	2326.2	2243.1	2203.6	2218.4	2232.4
15°	2973.8	2867.6	2690.7	2545.9	2417.5	2311.4	2217.6	2127.9	2078.5	2098.3	2108.1
17.5°	3041.2	2916.2	2689.9	2476.0	2337.7	2209.3	2114.7	2017.6	1926.3	1958.4	1947.7
20°	3116.1	2958.1	2685.0	2410.9	2239.8	2085.1	1959.2	1895.0	1800.4	1801.2	1787.2
22.5°	3205.0	3015.7	2679.2	2349.2	2120.5	1964.1	1807.0	1732.9	1655.6	1626.8	1617.7
25°	3344.9	3107.9	2689.1	2307.3	2017.6	1806.2	1621.8	1526.4	1493.5	1457.3	1441.6
27.5°	3535.0	3236.3	2710.5	2253.8	1888.4	1639.1	1412.8	1320.7	1297.6	1270.5	1252.4
30°	3813.9	3419.8	2736.0	2192.9	1738.7	1412.8	1204.7	1138.0	1101.0	1087.0	1076.3
32.5°	4522.4	3935.7	2755.7	2113.1	1583.2	1194.8	1044.2	977.5	925.7	901.0	903.5
35°	5248.9	4561.0	2895.6	2017.6	1392.3	1012.9	903.5	821.2	757.8	741.4	729.9
37.5°	5818.4	5075.3	3215.7	1921.4	1209.6	907.6	765.2	693.7	640.2	636.1	661.6
40°	6355.7	5547.6	3479.8	1810.3	1020.3	787.5	625.4	596.6	572.7	578.5	613.0
42.5°	6801.7	5971.4	3697.1	1650.6	867.3	651.7	534.0	564.5	571.9	579.3	581.8
45°	7238.6	6305.5	3814.7	1441.6	732.3	542.3	524.2	580.9	593.3	604.0	590.8
47.5°	7689.5	6682.4	3813.1	1184.9	631.1	529.9	544.7	580.9	602.3	615.5	611.4
50°	8049.9	6962.1	3764.5	932.3	605.6	558.7	555.4	557.1	591.6	600.7	601.5
52.5°	8391.4	7226.3	3564.6	766.1	641.0	591.6	567.8	548.0	562.8	584.2	560.4
55°	8724.7	7455.8	3209.9	720.8	658.3	619.6	593.3	558.7	543.9	539.0	547.2
57.5°	8998.7	7646.7	2793.6	700.2	663.2	622.1	636.9	557.9	541.4	503.6	499.5
60°	9266.1	7827.8	2383.8	671.4	659.1	617.1	594.1	571.9	532.4	475.6	455.0
62.5°	9432.3	7883.7	1955.1	646.8	641.0	611.4	579.3	568.6	523.3	479.7	474.0
63°	9408.4	7844.2	1880.2	642.6	636.9	607.3	580.1	564.5	519.2	484.7	482.2
65°	9466.0	7617.9	1549.4	617.1	619.6	595.7	567.8	539.8	482.2	457.5	453.4
67.5°	9192.9	7204.9	1118.3	570.2	593.3	577.6	543.1	492.1	438.6	406.5	404.8
70°	8476.2	6422.3	768.5	486.3	551.3	552.1	530.7	464.9	406.5	370.3	375.2
72.5°	7463.2	5611.8	495.4	378.5	474.0	507.7	495.4	439.4	362.9	297.0	292.1
75°	6376.3	4576.7	365.3	305.3	349.7	451.7	432.8	357.9	304.5	262.5	259.2
77.5°	4785.7	3309.5	323.4	260.8	260.0	306.1	356.3	352.2	361.2	434.5	424.6
80°	3312.8	2335.2	257.6	211.5	158.8	193.4	300.3	372.8	464.9	269.9	253.4
82.5°	1917.2	1268.0	83.9	66.7	97.1	125.1	220.5	463.3	307.7	161.3	144.8
85°	902.7	481.4	36.2	20.6	28.8	42.0	124.3	391.7	196.7	80.6	14.8
87.5°	279.8	132.5	8.2	6.6	7.4	9.1	52.7	205.7	134.9	9.1	0.0
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)