

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: P285806

Luminaire Tested: **PRV-XL-C100-D-UNV-T3-BZ-7030-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C100-D-UNV-T3-BZ-7030-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27725 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

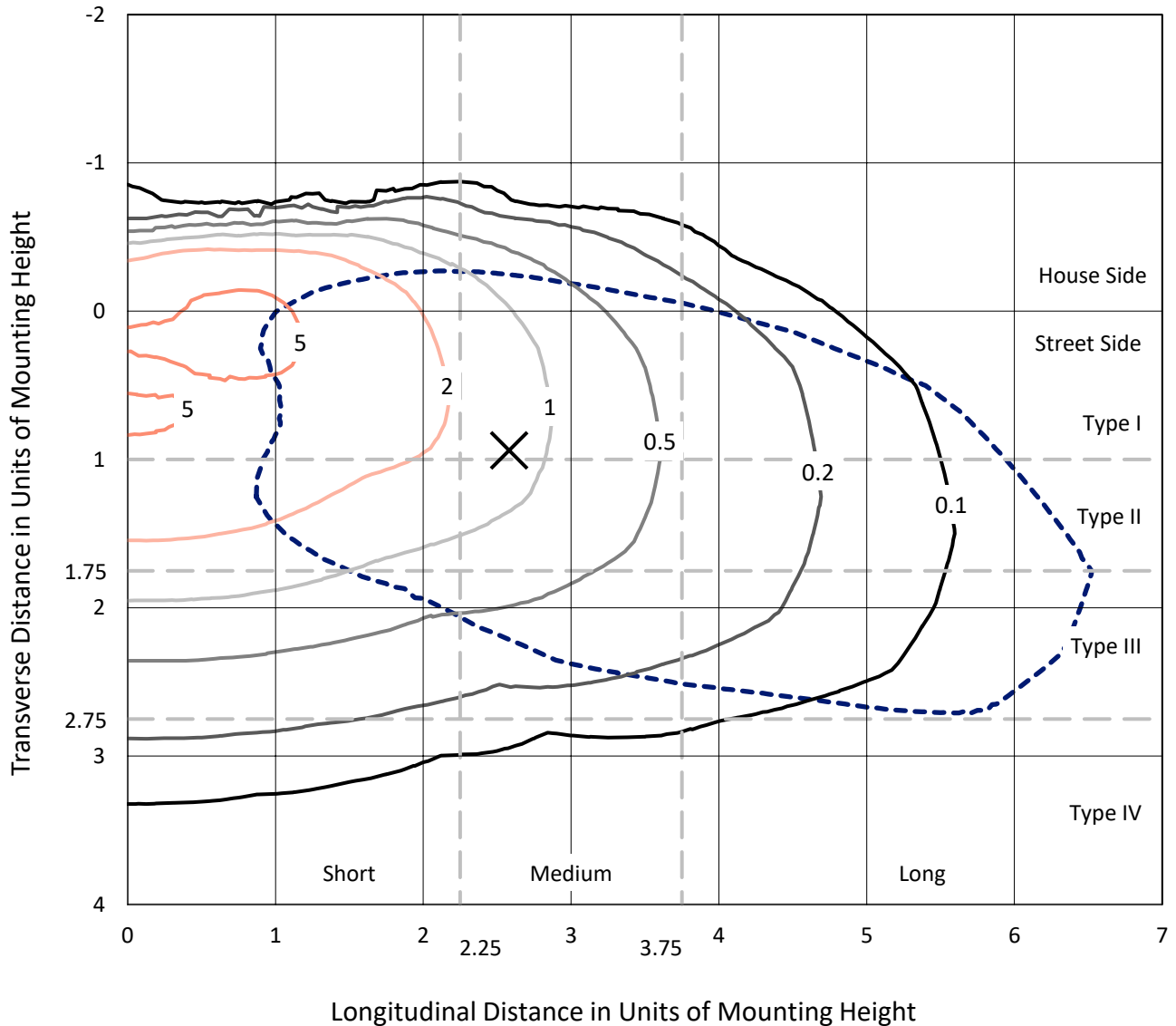
Input Watts (W): 217  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

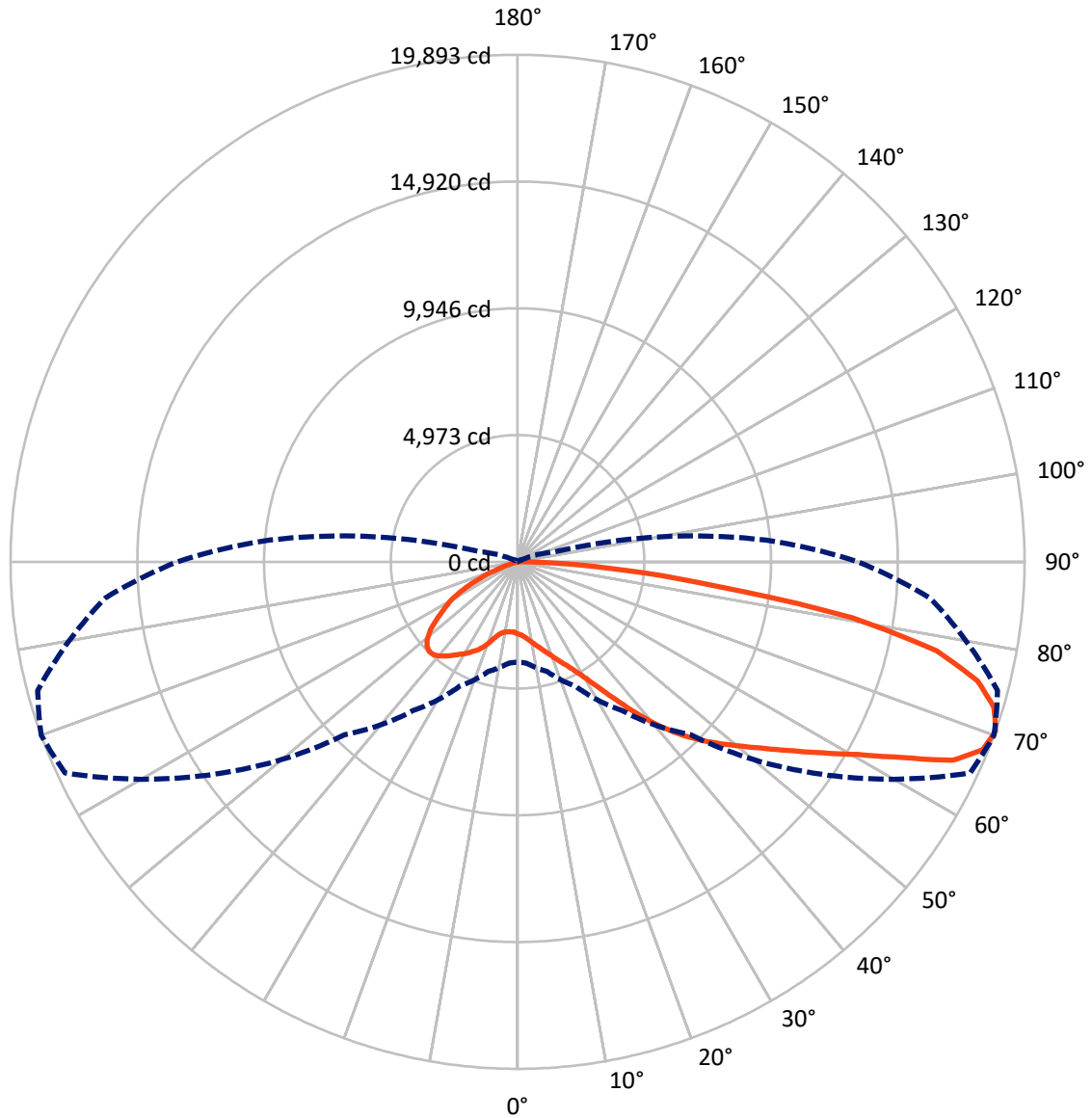
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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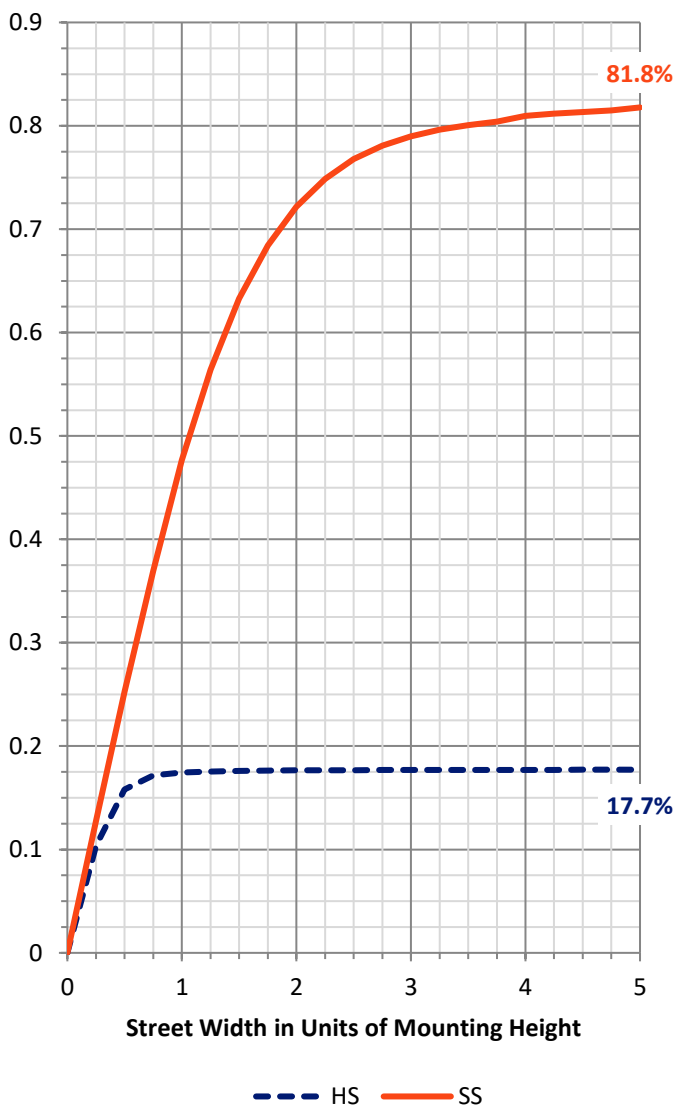
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4968.1	0.0	4968.1
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	22756.9	0.0	22756.9
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	27725.0	0.0	27725.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.9	1.0
10°-20°	860.8	3.1
20°-30°	1567.5	5.7
30°-40°	2664.9	9.6
40°-50°	4191.8	15.1
50°-60°	5658.5	20.4
60°-70°	6619.9	23.9
70°-80°	4925.9	17.8
80°-90°	961.6	3.5
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°	27725.0	100.0
0°-180°	27725.0	100.0

**Coefficient of Utilization**

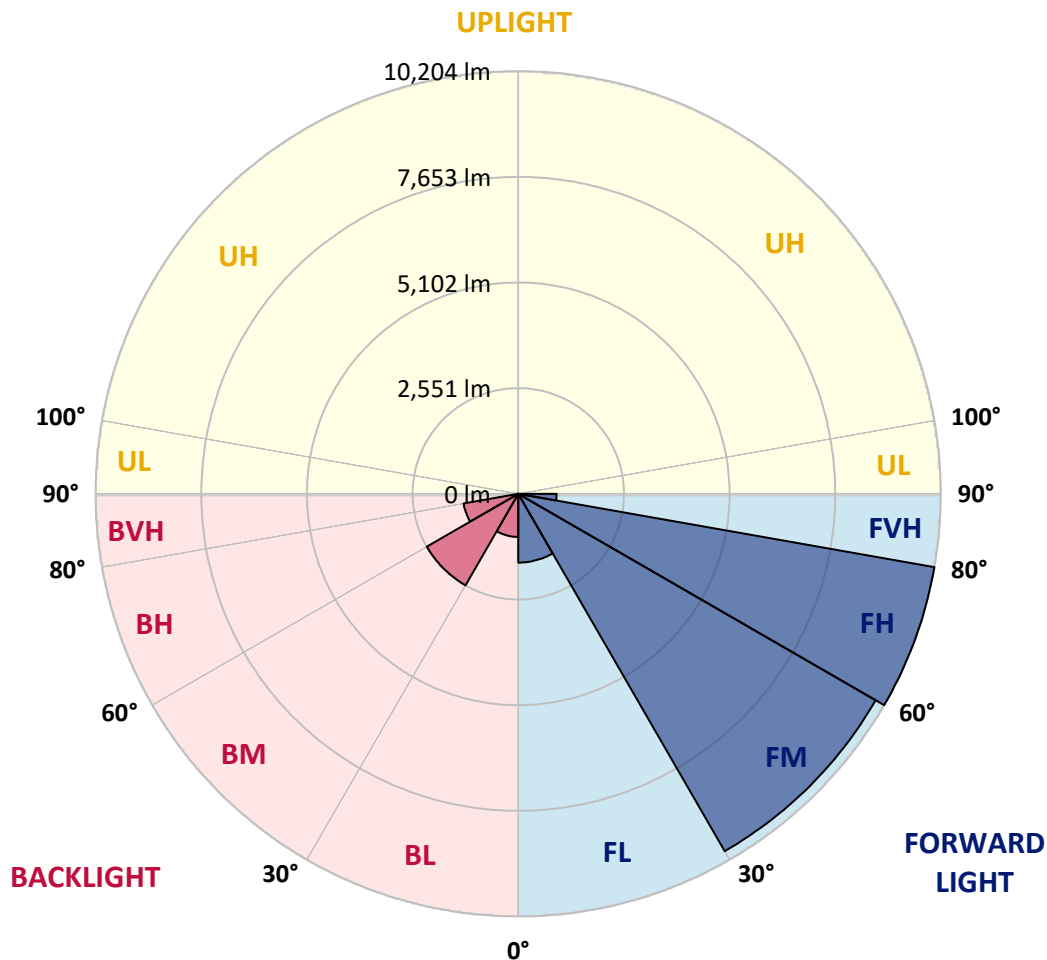


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1660.9	6.0			
FM (30°-60°)	9965.5	35.9			
FH (60°-80°)	10204.1	36.8			G4/12000
FVH (80°-90°)	926.4	3.3			G5
BL (0°-30°)	1041.4	3.8	B3/2500		
BM (30°-60°)	2549.8	9.2	B3/5000		
BH (60°-80°)	1341.7	4.8	B3/2500		G3/2500
BVH (80°-90°)	35.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7
2.5°	2992.4	2990.1	2994.8	2983.1	2990.1	2967.9	2948.1	2920.0	2876.8	2861.7	2832.5
5°	3138.4	3140.7	3139.5	3131.4	3120.9	3097.5	3057.8	3019.3	2967.9	2943.4	2886.2
7.5°	3263.3	3264.5	3269.1	3266.8	3261.0	3230.6	3194.4	3145.4	3083.5	3052.0	2973.8
10°	3362.6	3361.4	3368.4	3378.9	3402.2	3378.9	3331.0	3291.3	3224.8	3182.7	3085.8
12.5°	3427.9	3419.8	3439.6	3468.8	3510.8	3514.3	3482.8	3441.9	3383.6	3334.5	3225.9
15°	3458.3	3454.8	3491.0	3551.7	3612.4	3632.3	3627.6	3597.2	3554.0	3505.0	3387.1
17.5°	3529.5	3528.3	3552.9	3624.1	3695.3	3745.5	3796.9	3792.2	3752.5	3717.5	3594.9
20°	3645.1	3647.4	3647.4	3709.3	3787.5	3876.3	3977.9	4009.4	3977.9	3956.8	3838.9
22.5°	3786.4	3775.9	3768.9	3820.2	3916.0	4039.7	4183.3	4241.7	4237.0	4216.0	4144.8
25°	3984.9	3961.5	3911.3	3975.5	4093.4	4238.2	4406.3	4504.4	4512.6	4518.4	4569.8
27.5°	4300.1	4298.9	4213.7	4218.4	4298.9	4467.1	4672.5	4841.8	4865.2	4930.6	5106.9
30°	4935.2	4871.0	4773.0	4616.5	4589.6	4748.4	4993.6	5252.8	5319.4	5519.0	5732.7
32.5°	5529.5	5481.7	5412.8	5231.8	5011.1	5069.5	5348.6	5732.7	5907.8	6306.0	6500.9
35°	6039.7	6015.2	5963.9	5856.4	5656.8	5506.2	5735.0	6266.3	6635.2	7219.0	7389.4
37.5°	6538.3	6519.6	6485.8	6391.2	6266.3	6040.9	6184.5	6895.6	7495.7	8179.9	8267.4
40°	6976.1	6970.3	6999.5	6941.1	6886.2	6746.1	6704.1	7559.9	8394.7	9116.3	9095.2
42.5°	7359.1	7349.7	7492.2	7415.1	7480.5	7426.8	7339.2	8181.0	9209.7	9884.5	9813.3
45°	7614.8	7610.1	7760.7	7837.8	8022.3	8062.0	8009.4	8825.5	9952.2	10588.5	10432.1
47.5°	7809.8	7796.9	7879.8	8176.4	8517.3	8597.9	8699.4	9544.7	10650.4	11210.8	11021.7
50°	7916.0	7920.7	8091.1	8491.6	8996.0	9181.6	9395.3	10399.4	11360.3	11877.5	11564.6
52.5°	7984.9	8035.1	8286.1	8768.3	9457.2	9782.9	10028.1	11322.9	12164.7	12506.8	12172.9
55°	8033.9	8122.7	8373.7	8917.8	9745.6	10285.0	10643.4	12296.7	13080.1	13296.1	12817.4
57.5°	7717.5	7812.1	8234.7	8944.6	9983.7	10708.8	11348.6	13339.3	14150.7	14170.6	13416.3
60°	7200.3	7258.7	7799.3	8780.0	9949.9	11098.8	12213.8	14574.6	15344.0	15333.5	14156.6
62.5°	6665.6	6695.9	7244.7	8345.7	9758.4	11242.4	13038.1	16234.8	16895.7	16583.9	14910.8
65°	5959.2	5993.0	6559.3	7628.8	9226.0	11145.5	13743.3	17975.6	18768.4	18271.0	15640.5
67.5°	5039.2	5103.4	5626.4	6620.0	8359.7	10634.1	14280.3	19168.9	19679.1	19243.6	16151.9
70°	3930.0	3987.2	4454.2	5390.6	7110.4	9591.4	14530.2	19589.2	19892.8	19493.5	16238.3
72.5°	2798.6	2840.7	3047.3	3830.7	5392.9	8015.2	14293.2	19387.2	19544.8	19046.3	15652.2
75°	2130.8	2096.9	2219.5	2516.1	3154.7	5632.3	12851.3	18474.2	18635.3	18085.4	14509.2
77.5°	1542.3	1515.5	1662.6	1892.6	2200.8	2648.0	9033.4	16599.1	16806.9	16357.4	12568.7
80°	907.2	945.7	1140.7	1359.0	1604.2	1764.2	4259.2	12400.6	13315.9	13132.6	9163.0
82.5°	172.8	186.8	474.0	720.4	883.8	935.2	1612.4	6820.8	7817.9	8017.6	4840.7
85°	113.3	122.6	283.7	289.6	282.5	361.9	651.5	3286.7	4220.7	4268.6	2126.1
87.5°	52.5	58.4	86.4	124.9	158.8	190.3	214.8	882.7	1304.2	1334.5	420.3
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°	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7	2833.7
2.5°	2817.3	2805.6	2781.1	2760.1	2746.1	2737.9	2691.2	2683.0	2665.5	2652.7	2646.8
5°	2859.3	2837.2	2777.6	2736.7	2684.2	2641.0	2562.8	2523.1	2499.7	2475.2	2469.4
7.5°	2930.6	2894.4	2801.0	2727.4	2637.5	2559.3	2449.5	2386.5	2342.1	2307.1	2303.6
10°	3031.0	2973.8	2839.5	2732.1	2602.5	2495.1	2358.5	2256.9	2195.0	2149.5	2147.1
12.5°	3155.9	3077.7	2911.9	2769.4	2602.5	2454.2	2291.9	2156.5	2065.4	2003.5	1996.5
15°	3312.3	3218.9	3032.1	2857.0	2659.7	2470.5	2246.4	2064.2	1931.1	1831.9	1827.2
17.5°	3507.3	3410.4	3228.3	3031.0	2768.3	2496.2	2212.5	1955.7	1763.0	1645.1	1632.2
20°	3753.7	3708.1	3521.3	3233.0	2880.4	2509.1	2136.6	1805.0	1543.5	1391.7	1371.9
22.5°	4106.3	4080.6	3813.2	3405.8	2944.6	2469.4	2011.7	1564.5	1246.9	1083.5	1068.3
25°	4547.6	4458.9	4074.8	3534.2	2956.2	2381.8	1800.4	1257.5	902.5	740.2	734.4
27.5°	5007.6	4846.5	4301.3	3624.1	2922.4	2205.5	1503.8	894.3	562.8	458.8	460.0
30°	5587.9	5282.0	4558.1	3709.3	2844.2	1966.2	1115.0	556.9	353.8	290.7	282.5
32.5°	6256.9	5833.1	4815.0	3743.2	2698.2	1627.6	707.5	342.1	221.8	189.1	185.6
35°	7038.0	6514.9	5145.4	3746.7	2457.7	1209.6	423.8	200.8	150.6	151.8	154.1
37.5°	7853.0	7237.7	5548.2	3704.6	2157.6	756.6	239.3	129.6	129.6	154.1	162.3
40°	8590.9	7928.9	5975.5	3610.1	1735.0	440.2	135.4	112.1	119.1	144.8	151.8
42.5°	9268.0	8526.6	6366.7	3463.0	1238.8	238.2	116.8	101.6	107.4	119.1	122.6
45°	9854.1	9046.2	6648.0	3225.9	751.9	147.1	107.4	92.2	91.1	99.2	101.6
47.5°	10359.7	9510.9	6838.4	2887.4	393.5	140.1	103.9	84.1	78.2	81.7	82.9
50°	10878.1	9855.3	6909.6	2412.2	202.0	131.9	96.9	78.2	72.4	82.9	84.1
52.5°	11402.3	10372.5	6918.9	1747.8	160.0	119.1	88.7	72.4	70.1	92.2	95.7
55°	11912.5	10749.7	6784.6	1012.3	155.3	110.9	80.6	65.4	67.7	70.1	70.1
57.5°	12450.8	11201.5	6502.1	442.5	150.6	101.6	74.7	59.5	50.2	56.0	58.4
60°	13027.6	11591.5	5933.5	255.7	143.6	91.1	64.2	49.0	42.0	42.0	45.5
62.5°	13610.2	11877.5	5003.0	186.8	136.6	85.2	56.0	43.2	35.0	35.0	37.4
65°	13988.4	11687.2	3858.8	165.8	131.9	77.1	49.0	37.4	28.0	26.9	29.2
67.5°	13919.6	10958.6	2718.1	148.3	120.3	70.1	43.2	32.7	24.5	19.8	21.0
70°	13348.6	9767.7	1507.3	138.9	107.4	64.2	38.5	29.2	19.8	12.8	12.8
72.5°	12296.7	8207.9	579.1	124.9	95.7	56.0	35.0	28.0	17.5	7.0	5.8
75°	10726.3	6246.4	209.0	105.1	79.4	51.4	33.9	29.2	16.3	2.3	0.0
77.5°	8409.9	3495.7	123.8	78.2	59.5	44.4	36.2	29.2	9.3	0.0	0.0
80°	4517.3	1262.1	87.6	50.2	39.7	32.7	32.7	23.4	4.7	0.0	0.0
82.5°	1875.1	283.7	56.0	28.0	26.9	21.0	21.0	10.5	1.2	0.0	0.0
85°	531.2	82.9	25.7	15.2	15.2	11.7	5.8	0.0	0.0	0.0	0.0
87.5°	45.5	17.5	7.0	8.2	5.8	2.3	0.0	0.0	0.0	0.0	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)