

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: P285765

Luminaire Tested: **PRV-XL-C75-D-UNV-T2-BZ-7030-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C75-D-UNV-T2-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23742 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

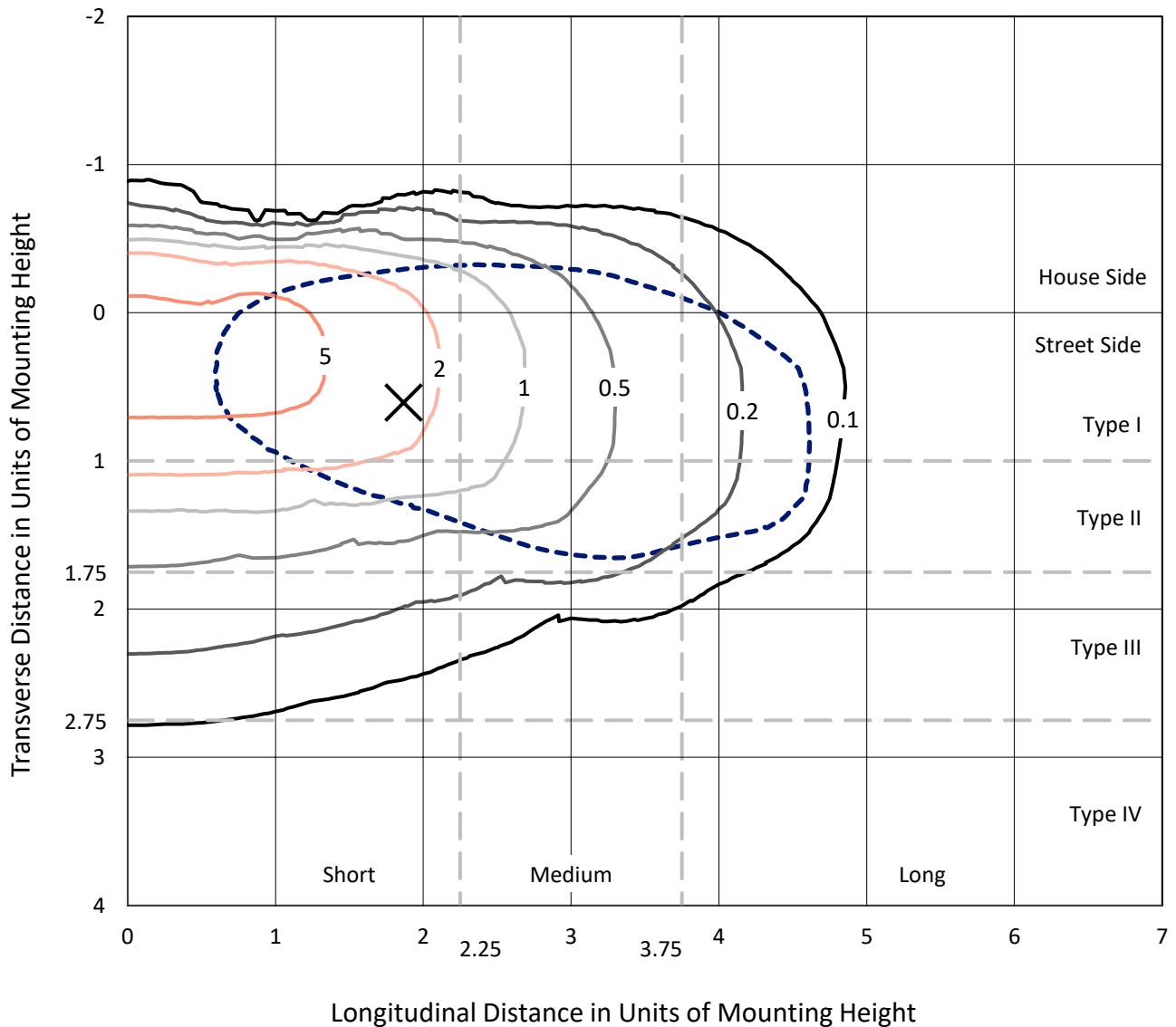
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

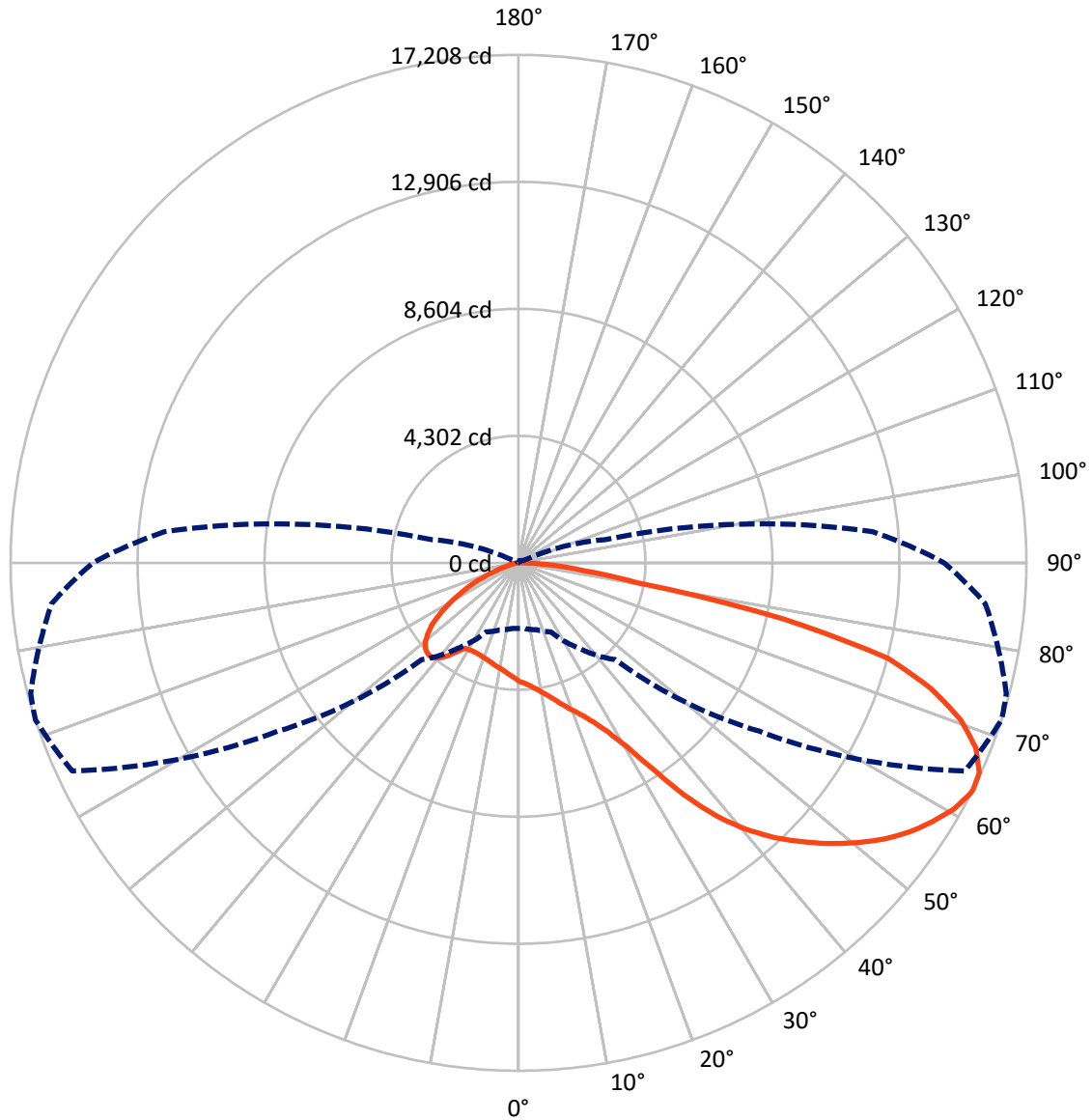
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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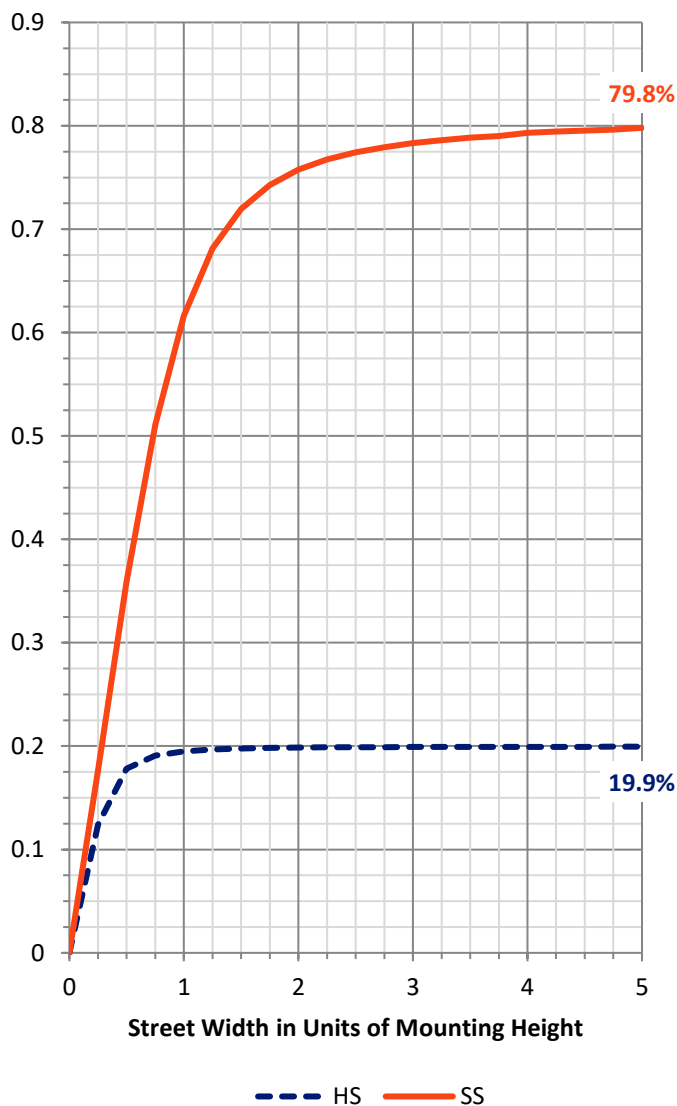
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4789.9	0.0	4789.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18952.1	0.0	18952.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	23742.0	0.0	23742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	1.6
10°-20°	1163.5	4.9
20°-30°	1963.2	8.3
30°-40°	3004.6	12.7
40°-50°	4185.8	17.6
50°-60°	4851.4	20.4
60°-70°	4756.1	20.0
70°-80°	2969.4	12.5
80°-90°	464.1	2.0
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°	23742.0	100.0
0°-180°	23742.0	100.0

Coefficient of Utilization



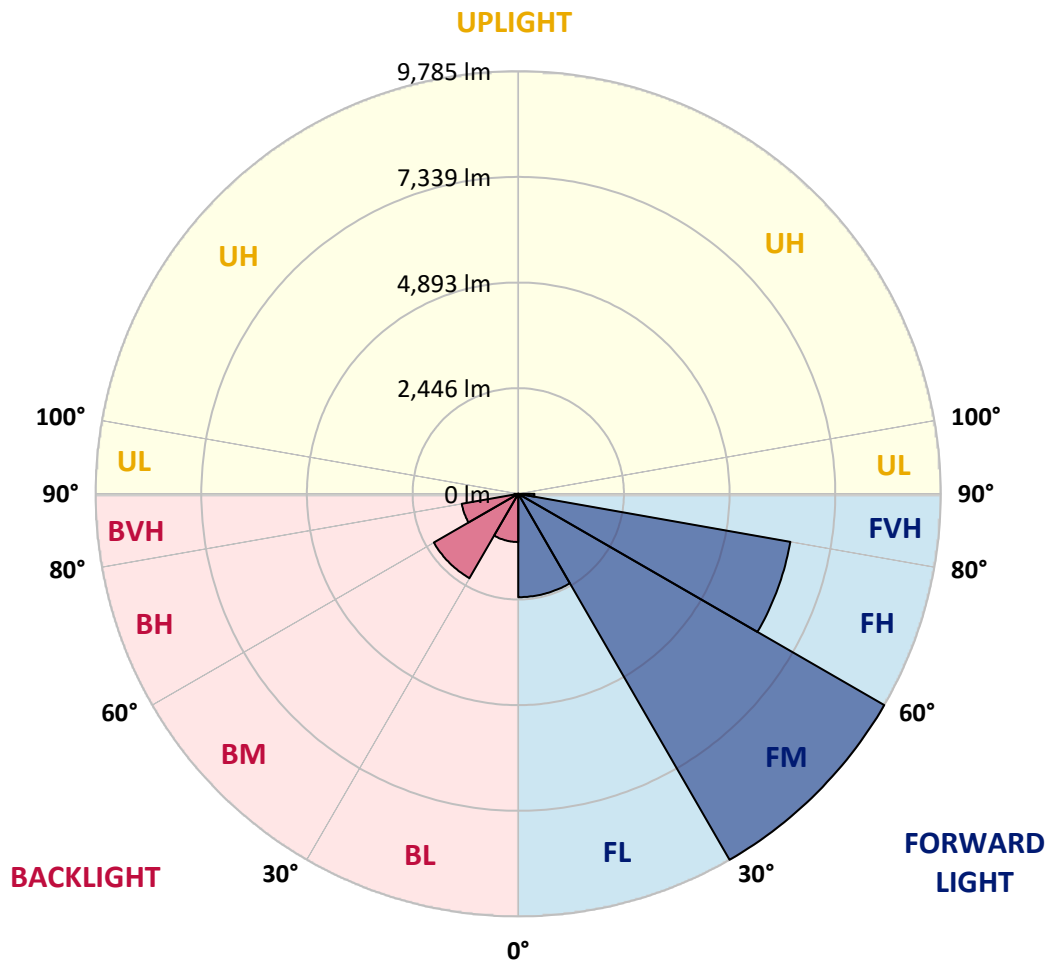
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2393.8	10.1			
FM	(30°-60°)	9785.4	41.2			
FH	(60°-80°)	6397.7	26.9			G3/7500
FVH	(80°-90°)	375.2	1.6			G3/500
BL	(0°-30°)	1116.6	4.7	B3/2500		
BM	(30°-60°)	2256.5	9.5	B2/2500		
BH	(60°-80°)	1327.8	5.6	B3/2500		G3/2500
BVH	(80°-90°)	88.9	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7
2.5°	4366.2	4354.5	4341.7	4326.0	4313.2	4273.9	4238.6	4170.9	4087.4	4083.5	4015.7
5°	4663.7	4645.1	4630.4	4602.9	4572.4	4502.7	4421.2	4307.3	4188.5	4169.9	4050.1
7.5°	4912.1	4892.5	4875.8	4840.5	4806.1	4720.7	4615.6	4462.5	4315.2	4277.9	4098.2
10°	5129.1	5109.5	5101.6	5063.3	5038.8	4945.5	4814.9	4649.0	4464.4	4407.5	4170.9
12.5°	5357.9	5337.3	5323.5	5283.3	5253.8	5154.7	5038.8	4853.2	4644.1	4583.2	4274.9
15°	5583.7	5565.1	5533.6	5512.0	5477.7	5374.6	5265.6	5072.2	4864.0	4787.4	4414.4
17.5°	5791.9	5776.2	5752.6	5733.9	5705.5	5598.4	5479.6	5315.7	5102.6	5008.4	4574.4
20°	5945.0	5946.0	5936.2	5926.4	5936.2	5848.8	5752.6	5570.0	5351.0	5241.1	4740.3
22.5°	6076.6	6084.5	6097.2	6112.0	6174.8	6131.6	6015.7	5867.5	5632.8	5503.2	4953.4
25°	6141.4	6147.3	6204.2	6300.5	6441.8	6440.9	6332.9	6225.8	6003.0	5868.5	5249.9
27.5°	6179.7	6187.6	6267.1	6460.5	6709.9	6748.2	6704.0	6656.9	6501.7	6367.2	5641.6
30°	6177.7	6188.5	6311.3	6553.8	6921.0	7115.4	7119.3	7293.1	7219.5	7127.2	6302.4
32.5°	6030.5	6034.4	6205.2	6562.6	7080.0	7441.4	7603.4	8058.9	8286.7	8303.4	7522.9
35°	5680.9	5731.0	5986.3	6483.1	7194.9	7760.5	8179.7	9037.8	9642.6	9671.1	8748.2
37.5°	5429.6	5460.0	5750.6	6340.7	7247.9	8093.3	8841.5	10213.1	10874.9	10805.1	9762.4
40°	5154.7	5192.0	5490.4	6150.2	7214.6	8379.0	9516.0	11341.2	11871.4	11762.4	10626.4
42.5°	4850.3	4881.7	5162.5	5868.5	7108.5	8585.2	10166.9	12316.2	12723.7	12590.1	11411.9
45°	4550.8	4571.4	4837.5	5488.5	6904.3	8710.9	10761.0	13194.0	13479.7	13366.8	12135.5
47.5°	4170.9	4195.4	4521.4	5126.2	6530.2	8707.0	11275.4	13974.5	14213.1	14087.4	12780.6
50°	3216.5	3232.2	3951.9	4797.3	6047.1	8534.1	11716.3	14681.4	14906.3	14762.9	13418.8
52.5°	2914.1	2926.9	3149.7	4387.8	5519.9	8175.8	12005.9	15333.4	15536.6	15383.5	14020.7
55°	2769.8	2778.6	2886.6	3571.0	5057.5	7561.1	12133.6	15937.2	16091.4	15893.0	14509.6
57.5°	2565.5	2583.2	2746.2	3058.4	4604.8	6617.6	11951.0	16425.2	16541.1	16346.6	14985.8
60°	2410.4	2421.2	2558.7	2806.1	4057.9	5562.1	11299.0	16755.1	16943.6	16767.9	15433.5
62.5°	2259.2	2263.1	2378.0	2618.6	3582.7	4773.7	10186.6	16734.5	17191.0	17082.0	15824.3
63°	2226.8	2230.7	2347.6	2584.2	3513.0	4643.1	9943.1	16684.4	17207.7	17108.6	15876.3
65°	2089.4	2095.2	2209.1	2427.1	3210.6	4229.8	8865.0	16376.1	17151.8	17148.8	15946.1
67.5°	1884.2	1895.0	1992.2	2178.7	2798.2	3707.4	7202.8	16047.2	16702.1	16737.4	15556.3
70°	1635.7	1643.6	1753.6	1910.7	2354.5	3147.8	5516.0	14995.6	15875.4	15777.2	14653.0
72.5°	1372.6	1386.4	1491.4	1613.2	1952.9	2597.0	3994.1	13201.8	14634.3	14707.0	13138.0
75°	1197.8	1205.7	1296.0	1382.4	1622.0	2066.8	2671.6	9479.7	12939.7	12958.3	11333.4
77.5°	993.6	1003.4	1096.7	1178.2	1315.7	1556.2	1842.9	4926.9	9200.8	9723.2	8800.2
80°	547.9	636.2	790.4	850.3	952.4	945.5	1172.3	2603.8	4071.7	5090.8	5812.5
82.5°	92.3	118.8	319.1	416.3	453.6	398.6	569.5	1433.5	2270.0	2604.8	3128.1
85°	39.3	56.9	166.9	182.6	113.9	110.9	224.8	750.1	1299.0	1496.3	1612.2
87.5°	4.9	8.8	43.2	56.9	26.5	36.3	45.2	234.7	452.6	520.4	588.1
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°	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7	4018.7
2.5°	3983.3	3960.7	3908.7	3868.4	3839.0	3798.7	3755.5	3724.1	3690.7	3676.0	3681.9
5°	3989.2	3939.1	3828.2	3740.8	3643.6	3571.9	3478.7	3431.5	3380.5	3354.9	3354.0
7.5°	4004.9	3926.4	3751.6	3614.2	3475.7	3363.8	3242.0	3158.6	3113.4	3080.0	3076.1
10°	4044.2	3932.3	3693.7	3507.1	3328.4	3178.2	3030.0	2922.0	2860.1	2825.7	2830.6
12.5°	4114.9	3953.9	3652.4	3419.7	3190.0	3011.3	2821.8	2695.1	2619.5	2577.3	2589.1
15°	4212.1	4001.0	3610.2	3311.7	3041.7	2831.6	2629.4	2486.0	2401.6	2365.3	2377.0
17.5°	4321.1	4069.7	3580.8	3191.0	2885.6	2648.0	2460.5	2320.1	2178.7	2150.2	2150.2
20°	4442.8	4146.3	3575.9	3076.1	2731.5	2473.3	2257.2	2139.4	1934.2	1864.5	1849.8
22.5°	4603.8	4254.3	3570.0	2971.0	2567.5	2292.6	2027.5	1841.9	1575.9	1456.1	1444.3
25°	4825.7	4403.6	3579.8	2884.6	2418.3	2089.4	1711.3	1413.8	1190.0	1039.8	1031.9
27.5°	5123.2	4602.9	3611.2	2804.1	2269.0	1839.0	1325.5	1008.3	835.5	701.0	660.8
30°	5685.8	4918.0	3666.2	2732.5	2095.2	1503.2	942.6	682.4	558.7	465.4	444.8
32.5°	6760.9	5709.4	3741.8	2652.9	1881.2	1107.5	629.4	455.6	355.4	301.4	313.2
35°	7833.1	6696.1	4102.1	2536.1	1599.4	737.4	420.2	290.6	223.9	221.9	234.7
37.5°	8799.2	7569.0	4589.1	2405.5	1222.4	495.8	252.3	193.4	187.5	204.2	229.8
40°	9600.4	8277.9	5000.5	2222.9	839.5	303.4	164.9	175.7	166.9	173.8	170.8
42.5°	10344.7	8916.1	5334.3	2015.7	494.8	174.8	143.3	163.0	150.2	144.3	132.5
45°	11014.3	9518.0	5502.2	1689.7	288.7	139.4	130.6	154.1	145.3	134.5	116.8
47.5°	11624.0	10046.2	5612.2	1244.0	165.9	121.7	121.7	138.4	136.5	123.7	113.9
50°	12256.3	10562.6	5601.4	763.9	140.4	111.9	115.9	115.9	122.7	96.2	87.4
52.5°	12815.0	11027.0	5377.5	433.0	129.6	106.0	105.1	94.3	100.1	74.6	69.7
55°	13268.6	11388.4	5001.5	285.7	122.7	105.1	92.3	81.5	76.6	54.0	56.0
57.5°	13714.3	11732.0	4426.1	225.8	127.6	101.1	84.4	69.7	59.9	42.2	40.3
60°	14144.4	12005.9	3816.4	203.2	134.5	101.1	69.7	58.9	40.3	32.4	28.5
62.5°	14404.6	12065.8	3141.9	183.6	138.4	94.3	62.8	48.1	29.5	21.6	19.6
63°	14423.2	12048.2	3022.1	180.7	139.4	94.3	62.8	46.1	28.5	19.6	17.7
65°	14394.7	11825.3	2554.7	170.8	142.4	90.3	59.9	37.3	22.6	13.7	11.8
67.5°	13918.6	11080.1	1894.0	160.0	136.5	89.3	55.0	30.4	17.7	8.8	6.9
70°	12753.1	9923.5	1265.6	142.4	131.6	87.4	64.8	25.5	14.7	4.9	3.9
72.5°	11125.2	8675.5	847.3	116.8	114.9	71.7	39.3	21.6	10.8	2.0	0.0
75°	9403.1	6981.9	524.3	89.3	93.3	60.9	31.4	18.7	8.8	0.0	0.0
77.5°	7319.6	5157.6	373.1	56.9	65.8	52.0	26.5	15.7	6.9	0.0	0.0
80°	4993.6	3495.3	270.0	31.4	34.4	34.4	21.6	11.8	3.9	0.0	0.0
82.5°	2896.4	1958.8	137.5	15.7	14.7	17.7	9.8	5.9	1.0	0.0	0.0
85°	1412.9	867.9	23.6	8.8	7.9	7.9	3.9	0.0	0.0	0.0	0.0
87.5°	479.1	224.8	2.9	3.9	2.9	1.0	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)