

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: P285778

Luminaire Tested: **PRV-XL-C150-D-UNV-T2-BZ-7050-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285778
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-C150-D-UNV-T2-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K 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: 38762 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

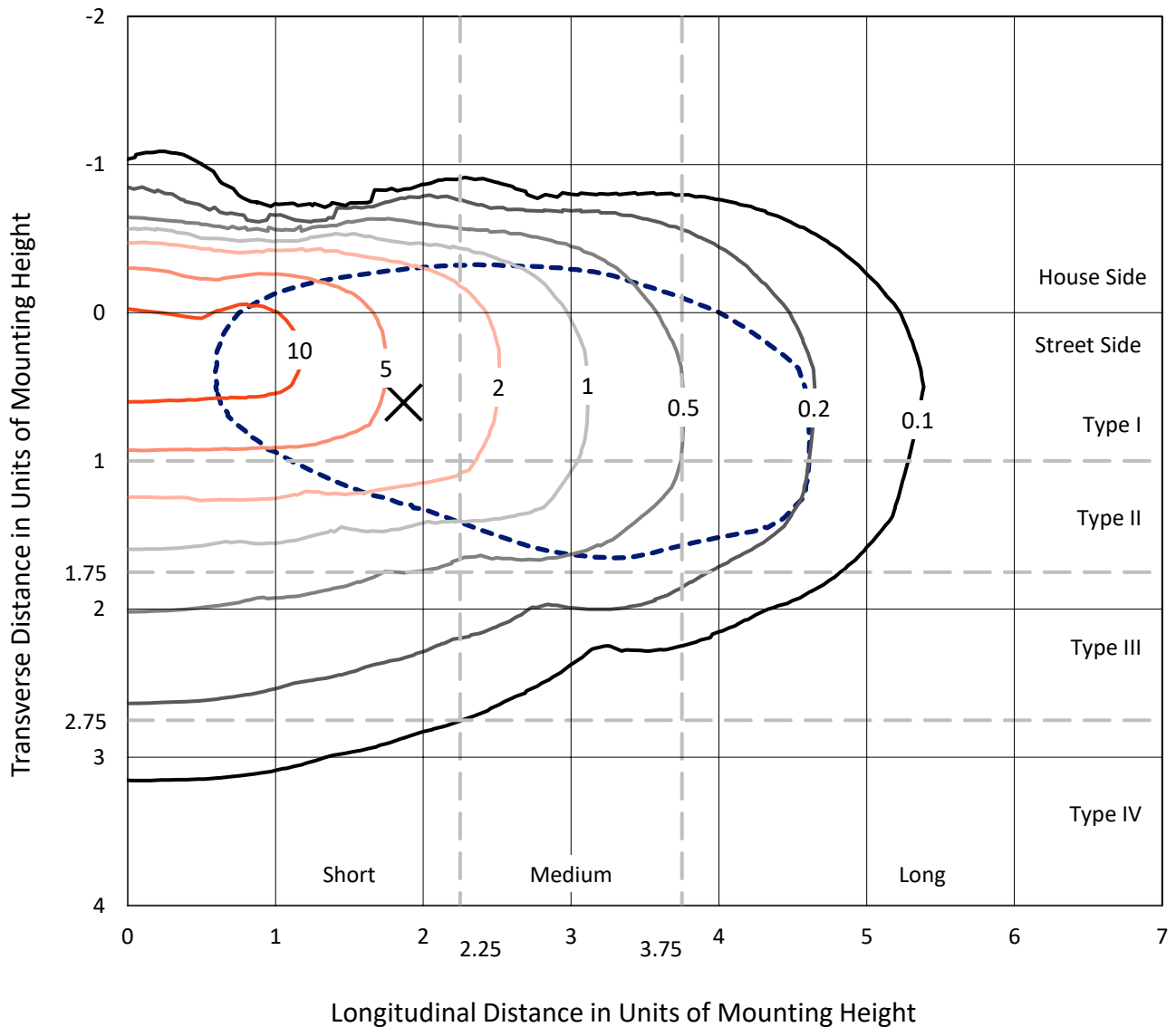
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

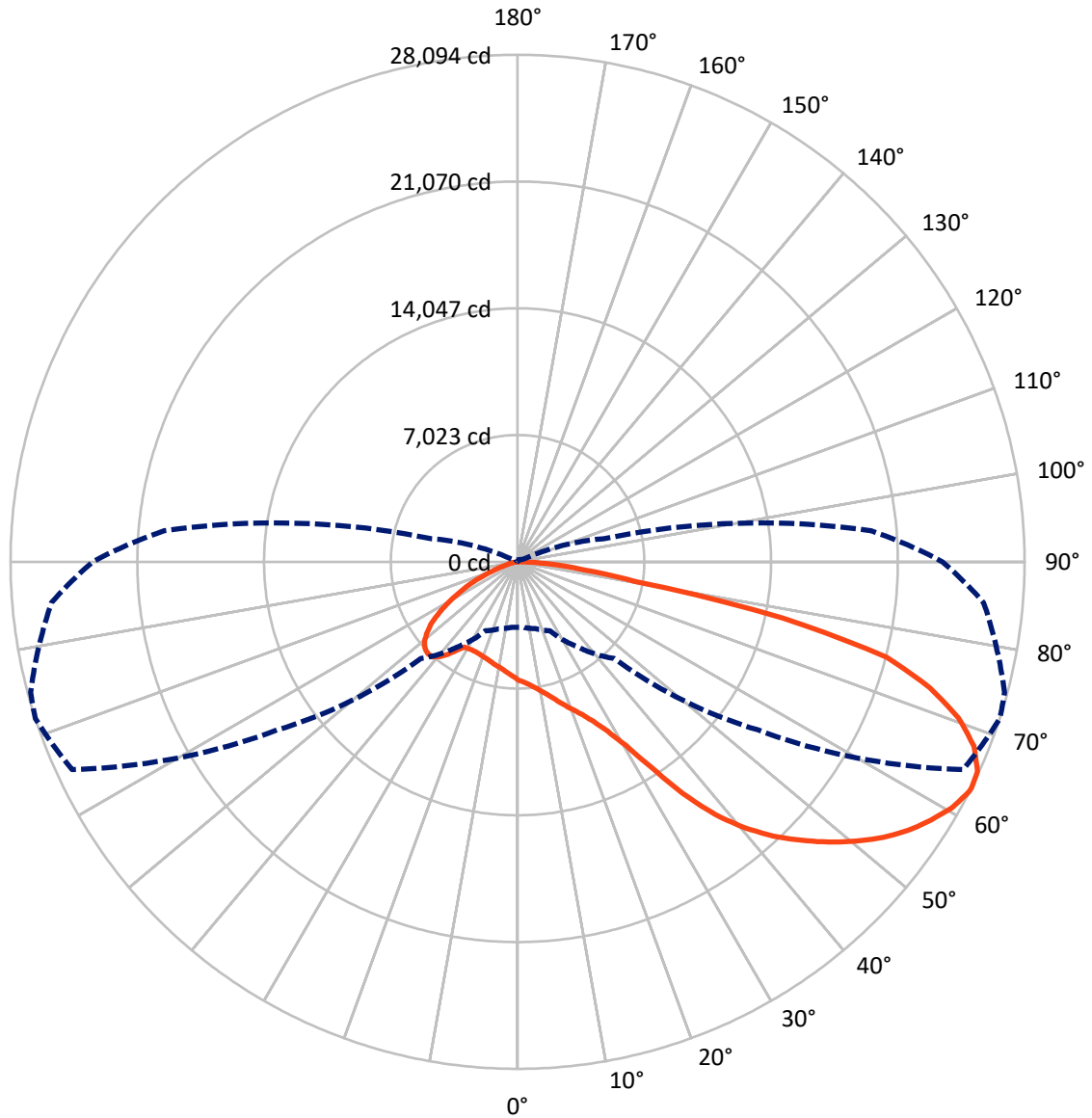
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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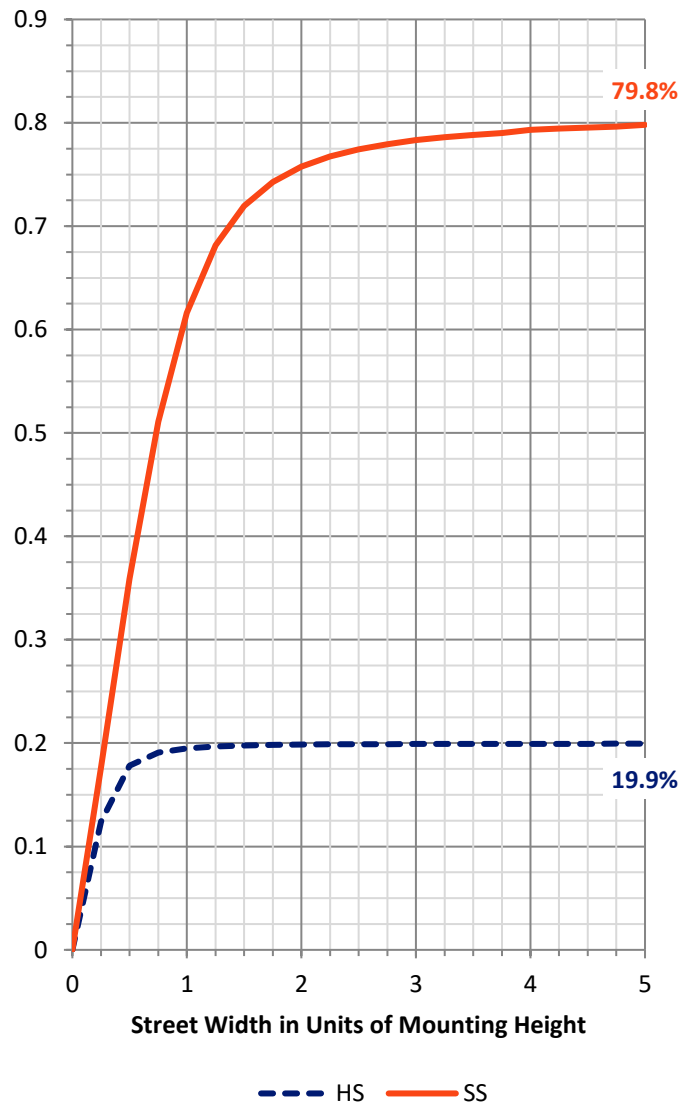
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7820.1	0.0	7820.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	30941.9	0.0	30941.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	38762.0	0.0	38762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.5	1.6
10°-20°	1899.6	4.9
20°-30°	3205.2	8.3
30°-40°	4905.5	12.7
40°-50°	6833.9	17.6
50°-60°	7920.6	20.4
60°-70°	7765.0	20.0
70°-80°	4848.0	12.5
80°-90°	757.7	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°	38762.0	100.0
0°-180°	38762.0	100.0

Coefficient of Utilization



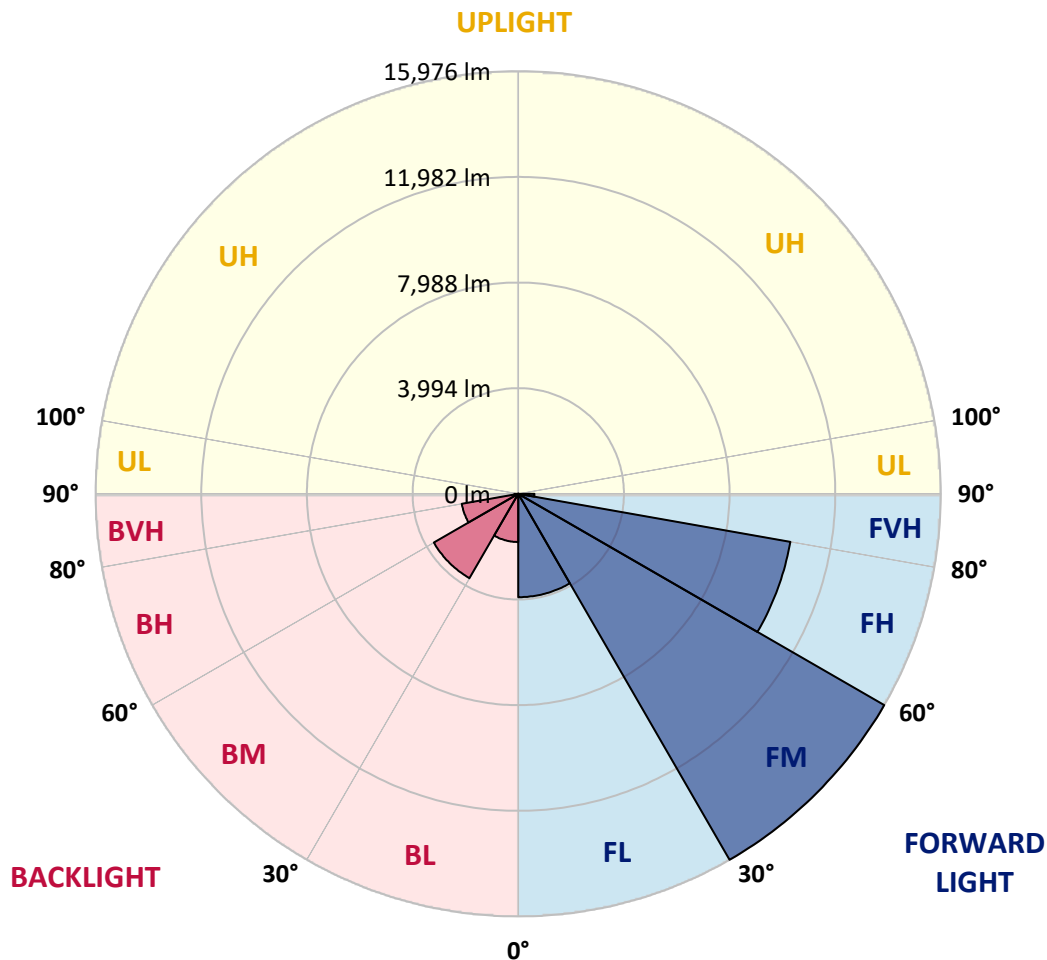
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3908.3	10.1			
FM (30°-60°)	15976.0	41.2			
FH (60°-80°)	10445.1	26.9			G4/12000
FVH (80°-90°)	612.5	1.6			G4/750
BL (0°-30°)	1823.1	4.7	B3/2500		
BM (30°-60°)	3684.1	9.5	B3/5000		
BH (60°-80°)	2167.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	145.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0
2.5°	7128.5	7109.2	7088.4	7062.8	7041.9	6977.8	6920.1	6809.5	6673.2	6666.8	6556.2
5°	7614.2	7583.7	7559.7	7514.8	7465.1	7351.3	7218.2	7032.3	6838.3	6807.9	6612.3
7.5°	8019.7	7987.7	7960.4	7902.7	7846.6	7707.2	7535.6	7285.6	7045.1	6984.2	6690.9
10°	8374.0	8341.9	8329.1	8266.6	8226.5	8074.2	7861.0	7590.1	7288.8	7195.8	6809.5
12.5°	8747.5	8713.8	8691.4	8625.7	8577.6	8415.7	8226.5	7923.6	7582.1	7482.7	6979.4
15°	9116.2	9085.7	9034.4	8999.2	8943.1	8774.7	8596.8	8281.0	7941.2	7816.2	7207.0
17.5°	9456.0	9430.4	9391.9	9361.4	9314.9	9140.2	8946.3	8678.6	8330.7	8176.8	7468.3
20°	9706.1	9707.7	9691.6	9675.6	9691.6	9549.0	9391.9	9093.7	8736.3	8556.7	7739.2
22.5°	9920.9	9933.7	9954.5	9978.6	10081.2	10010.6	9821.5	9579.4	9196.3	8984.7	8087.1
25°	10026.7	10036.3	10129.3	10286.4	10517.2	10515.6	10339.3	10164.5	9800.6	9581.0	8571.2
27.5°	10089.2	10102.0	10231.9	10547.6	10954.8	11017.3	10945.2	10868.2	10615.0	10395.4	9210.8
30°	10086.0	10103.6	10304.0	10699.9	11299.4	11616.8	11623.2	11907.0	11786.7	11636.1	10289.6
32.5°	9845.5	9851.9	10130.9	10714.3	11559.1	12149.0	12413.5	13157.3	13529.2	13556.4	12282.1
35°	9274.9	9356.6	9773.4	10584.5	11746.7	12670.0	13354.5	14755.5	15742.9	15789.4	14282.6
37.5°	8864.5	8914.2	9388.7	10352.1	11833.2	13213.4	14434.9	16674.2	17754.7	17640.8	15938.5
40°	8415.7	8476.6	8963.9	10041.1	11778.7	13679.9	15536.1	18516.1	19381.7	19203.8	17349.1
42.5°	7918.7	7970.0	8428.5	9581.0	11605.6	14016.5	16598.9	20107.8	20773.1	20555.1	18631.5
45°	7429.8	7463.5	7897.9	8960.7	11272.2	14221.7	17568.7	21540.9	22007.4	21823.0	19812.9
47.5°	6809.5	6849.6	7381.7	8369.2	10661.5	14215.3	18408.7	22815.3	23204.8	22999.6	20866.1
50°	5251.4	5277.0	6452.0	7832.2	9872.8	13933.1	19128.4	23969.4	24336.5	24102.5	21908.0
52.5°	4757.7	4778.5	5142.4	7163.7	9012.0	13348.1	19601.3	25033.8	25365.6	25115.6	22890.6
55°	4522.0	4536.4	4712.8	5830.1	8257.0	12344.6	19809.7	26019.6	26271.3	25947.5	23688.9
57.5°	4188.6	4217.5	4483.5	4993.3	7518.0	10804.1	19511.5	26816.3	27005.5	26688.1	24466.4
60°	3935.3	3953.0	4177.4	4581.3	6625.1	9080.9	18447.1	27354.9	27662.7	27375.8	25197.3
62.5°	3688.5	3694.9	3882.4	4275.2	5849.3	7793.7	16631.0	27321.3	28066.7	27888.7	25835.3
63°	3635.6	3642.0	3832.7	4219.1	5735.5	7580.5	16233.4	27239.5	28093.9	27932.0	25920.3
65°	3411.2	3420.8	3606.7	3962.6	5241.8	6905.7	14473.3	26736.2	28002.5	27997.7	26034.1
67.5°	3076.1	3093.8	3252.5	3557.0	4568.5	6052.9	11759.5	26199.2	27268.4	27326.1	25397.7
70°	2670.6	2683.4	2862.9	3119.4	3844.0	5139.2	9005.6	24482.4	25918.7	25758.4	23922.9
72.5°	2241.0	2263.4	2434.9	2633.7	3188.3	4239.9	6520.9	21553.7	23892.5	24011.1	21449.5
75°	1955.6	1968.5	2115.9	2257.0	2648.1	3374.3	4361.7	15476.8	21125.7	21156.2	18503.3
77.5°	1622.2	1638.3	1790.5	1923.6	2148.0	2540.7	3008.8	8043.8	15021.6	15874.4	14367.6
80°	894.5	1038.7	1290.4	1388.2	1554.9	1543.7	1914.0	4251.1	6647.6	8311.5	9489.7
82.5°	150.7	194.0	521.0	679.7	740.6	650.8	929.7	2340.4	3706.1	4252.7	5107.1
85°	64.1	93.0	272.5	298.2	185.9	181.1	367.1	1224.7	2120.7	2442.9	2632.1
87.5°	8.0	14.4	70.5	93.0	43.3	59.3	73.7	383.1	739.0	849.6	960.2
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°	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0	6561.0
2.5°	6503.3	6466.4	6381.5	6315.8	6267.7	6201.9	6131.4	6080.1	6025.6	6001.6	6011.2
5°	6512.9	6431.2	6250.0	6107.4	5948.7	5831.7	5679.4	5602.4	5519.1	5477.4	5475.8
7.5°	6538.6	6410.3	6125.0	5900.6	5674.6	5491.8	5293.1	5156.8	5083.1	5028.6	5022.2
10°	6602.7	6420.0	6030.4	5725.9	5434.1	5188.9	4946.8	4770.5	4669.5	4613.4	4621.4
12.5°	6718.1	6455.2	5963.1	5583.2	5208.1	4916.4	4607.0	4400.2	4276.8	4207.8	4227.1
15°	6876.8	6532.2	5894.2	5406.9	4966.0	4623.0	4292.8	4058.8	3920.9	3861.6	3880.8
17.5°	7054.7	6644.4	5846.1	5209.7	4711.2	4323.2	4017.1	3787.9	3557.0	3510.5	3510.5
20°	7253.5	6769.4	5838.1	5022.2	4459.5	4037.9	3685.3	3492.9	3157.9	3044.1	3020.0
22.5°	7516.4	6945.7	5828.5	4850.6	4191.8	3743.0	3310.2	3007.2	2572.8	2377.2	2358.0
25°	7878.7	7189.4	5844.5	4709.6	3948.2	3411.2	2794.0	2308.3	1942.8	1697.6	1684.7
27.5°	8364.4	7514.8	5895.8	4578.1	3704.5	3002.4	2164.0	1646.3	1364.1	1144.5	1078.8
30°	9282.9	8029.4	5985.5	4461.1	3420.8	2454.2	1538.9	1114.1	912.1	759.8	726.2
32.5°	11038.2	9321.4	6109.0	4331.3	3071.3	1808.2	1027.5	743.8	580.3	492.1	511.4
35°	12788.6	10932.4	6697.3	4140.5	2611.3	1203.8	686.1	474.5	365.5	362.3	383.1
37.5°	14365.9	12357.4	7492.4	3927.3	1995.7	809.5	412.0	315.8	306.2	333.4	375.1
40°	15674.0	13514.8	8164.0	3629.2	1370.6	495.3	269.3	286.9	272.5	283.7	278.9
42.5°	16889.0	14556.7	8709.0	3290.9	807.9	285.3	234.0	266.1	245.3	235.6	216.4
45°	17982.3	15539.3	8983.1	2758.7	471.3	227.6	213.2	251.7	237.2	219.6	190.8
47.5°	18977.7	16401.7	9162.7	2031.0	270.9	198.8	198.8	226.0	222.8	202.0	185.9
50°	20010.1	17244.9	9145.0	1247.1	229.2	182.7	189.2	189.2	200.4	157.1	142.7
52.5°	20922.2	18003.1	8779.5	706.9	211.6	173.1	171.5	153.9	163.5	121.8	113.8
55°	21662.7	18593.0	8165.6	466.5	200.4	171.5	150.7	133.0	125.0	88.2	91.4
57.5°	22390.5	19154.1	7226.3	368.7	208.4	165.1	137.9	113.8	97.8	68.9	65.7
60°	23092.6	19601.3	6230.8	331.8	219.6	165.1	113.8	96.2	65.7	52.9	46.5
62.5°	23517.4	19699.1	5129.6	299.8	226.0	153.9	102.6	78.5	48.1	35.3	32.1
63°	23547.8	19670.2	4934.0	294.9	227.6	153.9	102.6	75.3	46.5	32.1	28.9
65°	23501.4	19306.3	4171.0	278.9	232.4	147.5	97.8	60.9	36.9	22.4	19.2
67.5°	22723.9	18089.7	3092.2	261.3	222.8	145.9	89.8	49.7	28.9	14.4	11.2
70°	20821.2	16201.4	2066.2	232.4	214.8	142.7	105.8	41.7	24.0	8.0	6.4
72.5°	18163.4	14164.0	1383.4	190.8	187.5	117.0	64.1	35.3	17.6	3.2	0.0
75°	15351.8	11398.8	856.0	145.9	152.3	99.4	51.3	30.5	14.4	0.0	0.0
77.5°	11950.3	8420.5	609.1	93.0	107.4	85.0	43.3	25.6	11.2	0.0	0.0
80°	8152.8	5706.6	440.8	51.3	56.1	56.1	35.3	19.2	6.4	0.0	0.0
82.5°	4728.8	3198.0	224.4	25.6	24.0	28.9	16.0	9.6	1.6	0.0	0.0
85°	2306.7	1417.0	38.5	14.4	12.8	12.8	6.4	0.0	0.0	0.0	0.0
87.5°	782.3	367.1	4.8	6.4	4.8	1.6	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)