

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: P285769

Luminaire Tested: **PRV-XL-C175-D-UNV-T2-BZ-7030-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285769
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-C175-D-UNV-T2-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 44184 lumens
Efficiency: N/A
Efficacy: 127.7 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

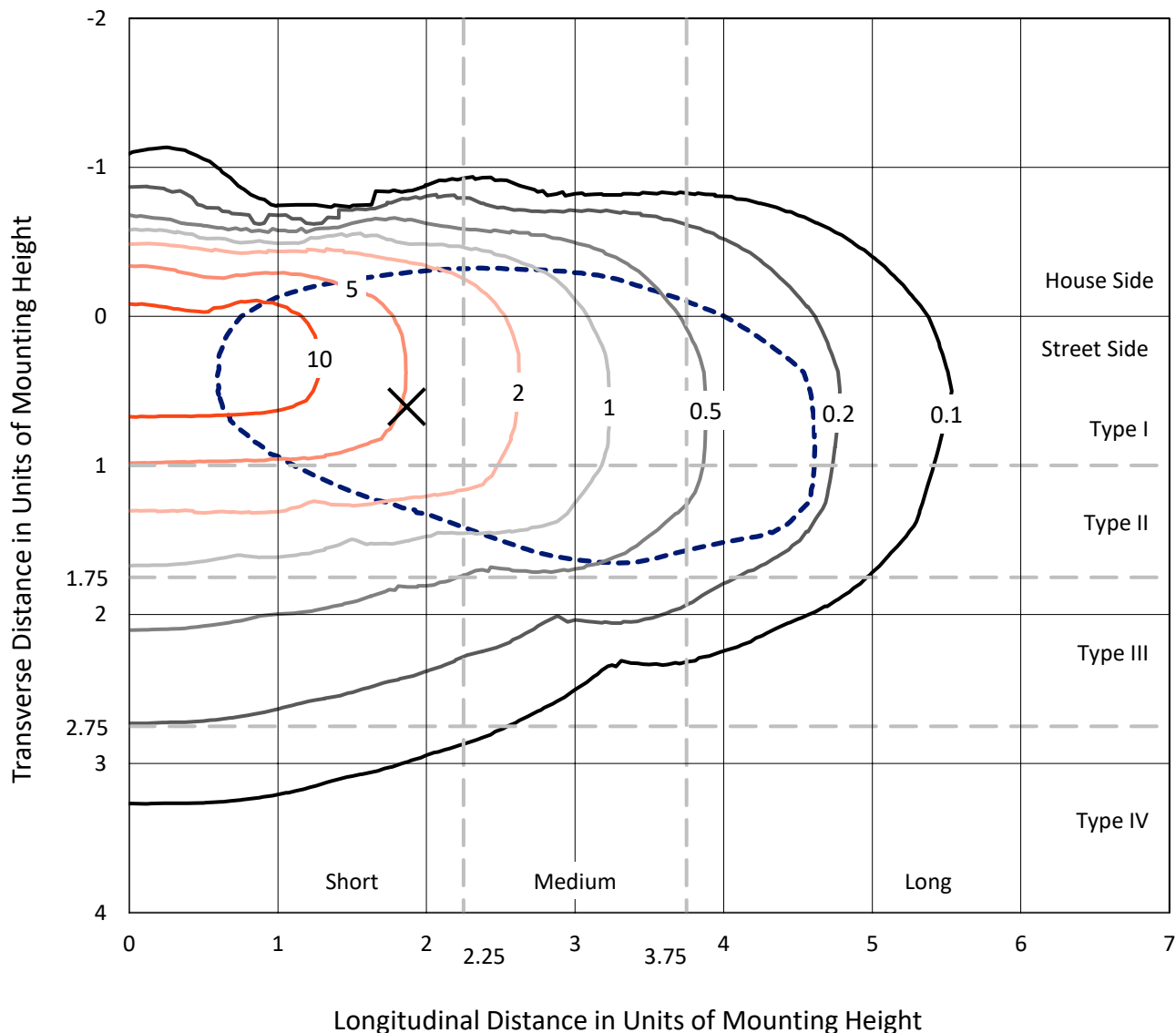
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

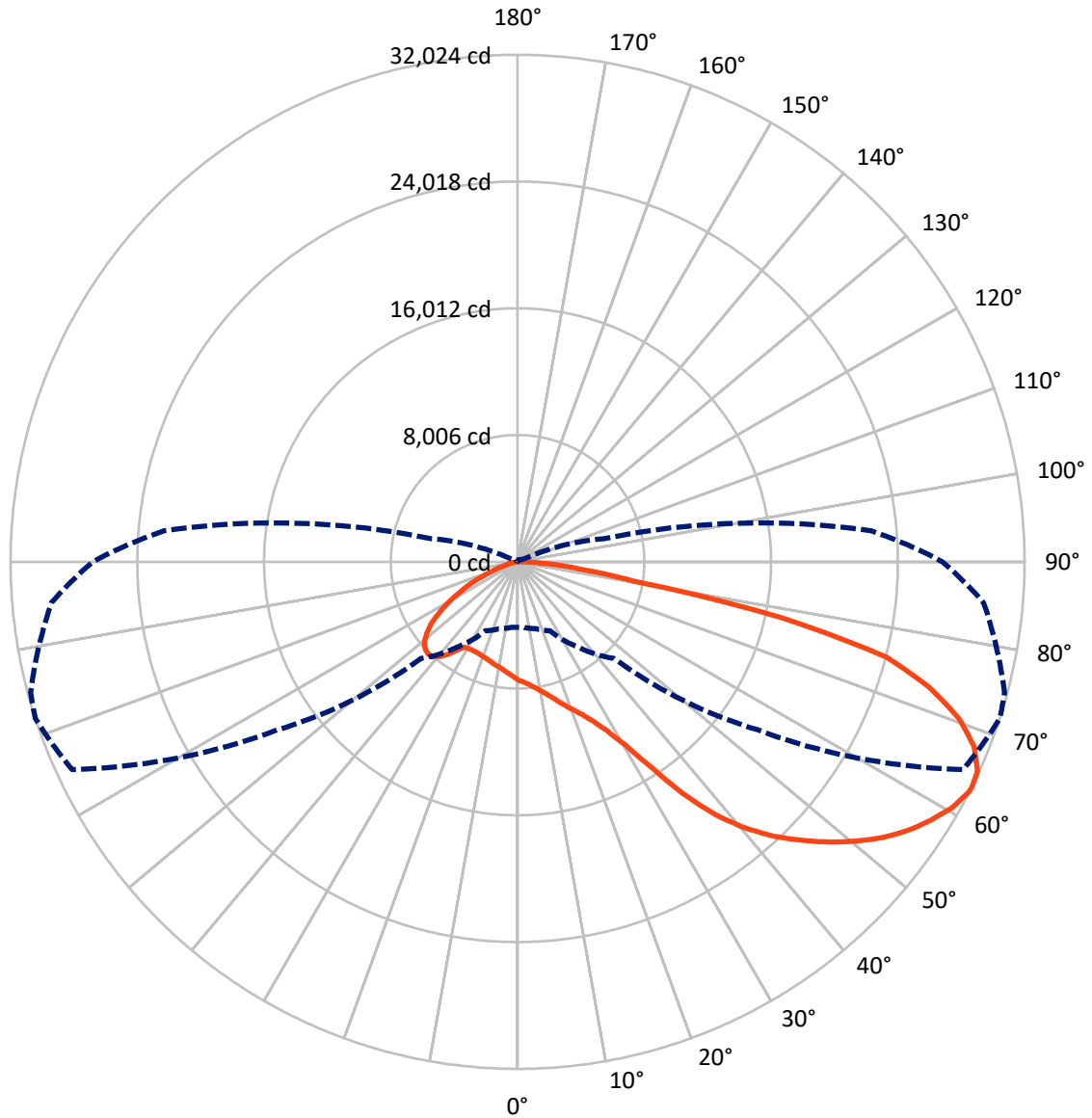
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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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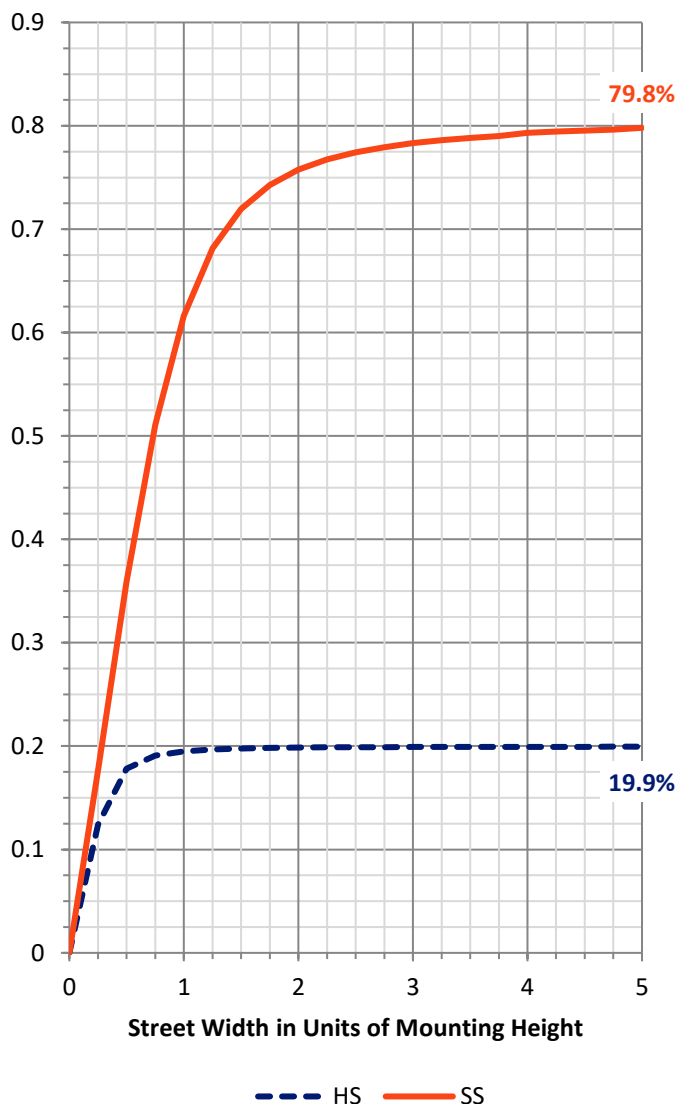
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8914.0	0.0	8914.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	35270.0	0.0	35270.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	44184.0	0.0	44184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.1	1.6
10°-20°	2165.3	4.9
20°-30°	3653.6	8.3
30°-40°	5591.6	12.7
40°-50°	7789.9	17.6
50°-60°	9028.6	20.4
60°-70°	8851.1	20.0
70°-80°	5526.1	12.5
80°-90°	863.7	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°	44184.0	100.0
0°-180°	44184.0	100.0

Coefficient of Utilization

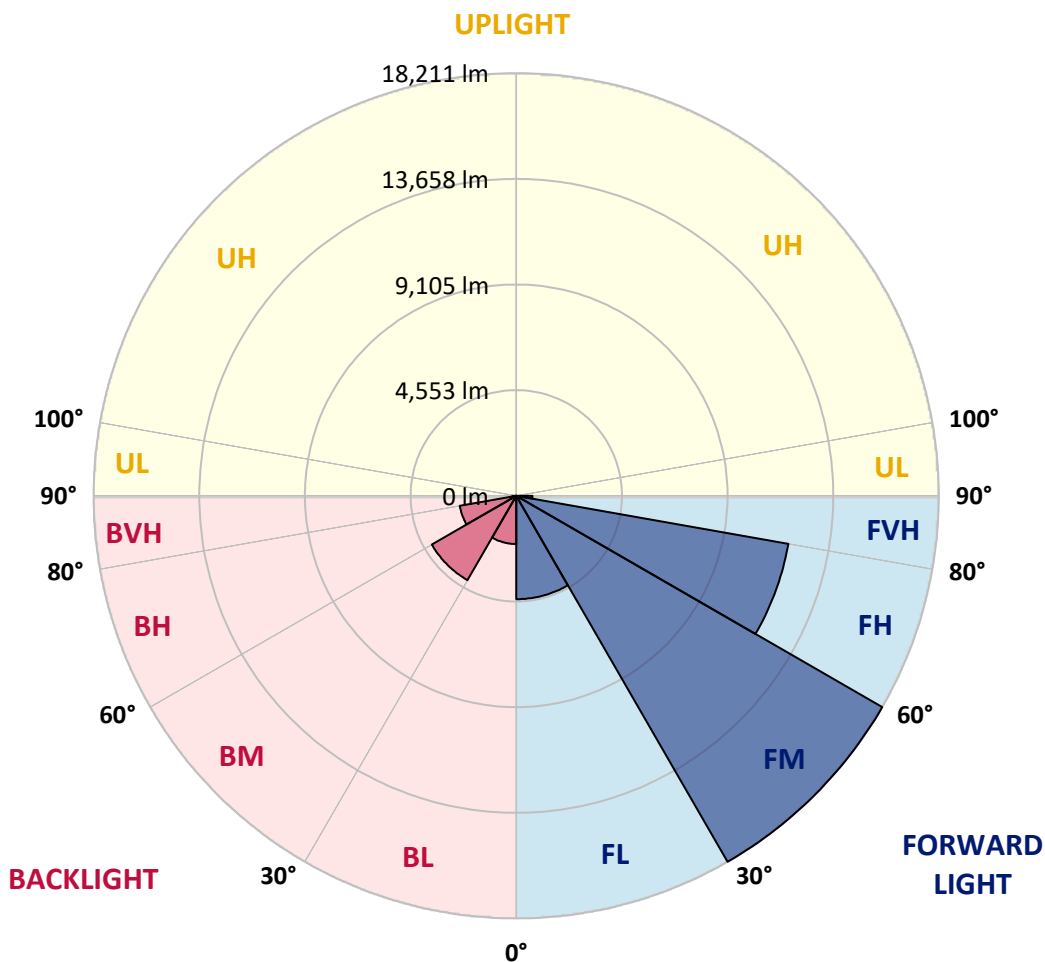


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4454.9	10.1			
FM (30°-60°)	18210.7	41.2			
FH (60°-80°)	11906.2	26.9			G4/12000
FVH (80°-90°)	698.2	1.6			G4/750
BL (0°-30°)	2078.1	4.7	B3/2500		
BM (30°-60°)	4199.4	9.5	B3/5000		
BH (60°-80°)	2471.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	165.5	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°	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8
2.5°	8125.6	8103.7	8079.9	8050.7	8026.9	7953.8	7888.1	7762.0	7606.7	7599.4	7473.3
5°	8679.2	8644.5	8617.1	8566.0	8509.3	8379.6	8227.9	8016.0	7794.9	7760.2	7537.2
7.5°	9141.5	9105.0	9073.9	9008.1	8944.2	8785.2	8589.7	8304.7	8030.6	7961.1	7626.8
10°	9545.3	9508.8	9494.2	9422.9	9377.2	9203.7	8960.6	8651.8	8308.3	8202.3	7762.0
12.5°	9971.1	9932.7	9907.1	9832.2	9777.4	9592.8	9377.2	9031.9	8642.7	8529.4	7955.7
15°	10391.3	10356.6	10298.2	10258.0	10194.0	10002.1	9799.3	9439.4	9052.0	8909.5	8215.1
17.5°	10778.7	10749.5	10705.6	10670.9	10617.9	10418.7	10197.7	9892.5	9496.0	9320.6	8513.0
20°	11063.8	11065.6	11047.3	11029.0	11047.3	10884.7	10705.6	10365.8	9958.3	9753.6	8821.8
22.5°	11308.6	11323.2	11347.0	11374.4	11491.3	11410.9	11195.3	10919.4	10482.7	10241.5	9218.3
25°	11429.2	11440.2	11546.1	11725.2	11988.3	11986.5	11785.5	11586.3	11171.6	10921.2	9770.1
27.5°	11500.5	11515.1	11663.1	12023.0	12487.1	12558.4	12476.2	12388.5	12099.8	11849.5	10499.1
30°	11496.8	11516.9	11745.3	12196.6	12880.0	13241.8	13249.1	13572.5	13435.5	13263.7	11728.9
32.5°	11222.7	11230.0	11548.0	12213.1	13176.0	13848.4	14149.9	14997.7	15421.6	15452.7	14000.1
35°	10572.2	10665.4	11140.5	12065.1	13389.8	14442.3	15222.5	16819.5	17945.0	17998.0	16280.4
37.5°	10104.5	10161.1	10702.0	11800.1	13488.5	15061.7	16454.0	19006.6	20238.2	20108.4	18167.9
40°	9592.8	9662.3	10217.8	11445.6	13426.3	15593.4	17709.3	21106.1	22092.8	21890.0	19775.9
42.5°	9026.4	9084.9	9607.5	10921.2	13229.0	15977.1	18920.7	22920.5	23678.8	23430.3	21237.7
45°	8469.1	8507.5	9002.7	10214.1	12848.9	16211.0	20026.2	24554.0	25085.8	24875.6	22584.3
47.5°	7762.0	7807.7	8414.3	9539.9	12152.8	16203.7	20983.7	26006.7	26450.7	26216.8	23784.8
50°	5985.9	6015.2	7354.5	8927.7	11253.8	15882.1	21804.1	27322.3	27740.7	27473.9	24972.5
52.5°	5423.2	5446.9	5861.7	8165.8	10272.6	15215.2	22343.1	28535.5	28913.8	28628.7	26092.5
55°	5154.6	5171.0	5372.0	6645.6	9412.0	14071.3	22580.6	29659.3	29946.1	29577.0	27002.5
57.5°	4774.5	4807.4	5110.7	5691.8	8569.6	12315.4	22240.8	30567.4	30783.0	30421.2	27888.7
60°	4485.8	4505.9	4761.7	5222.2	7551.9	10351.1	21027.5	31181.3	31532.1	31205.1	28721.9
62.5°	4204.4	4211.7	4425.5	4873.2	6667.5	8883.9	18957.3	31143.0	31992.6	31789.8	29449.1
63°	4144.1	4151.4	4368.9	4809.2	6537.8	8640.9	18504.1	31049.8	32023.7	31839.1	29546.0
65°	3888.3	3899.3	4111.2	4516.9	5975.0	7871.6	16497.9	30476.0	31919.5	31914.0	29675.7
67.5°	3506.4	3526.5	3707.4	4054.6	5207.5	6899.5	13404.4	29863.9	31082.7	31148.4	28950.3
70°	3044.1	3058.7	3263.4	3555.7	4381.6	5858.0	10265.3	27907.0	29544.1	29361.4	27269.3
72.5°	2554.4	2580.0	2775.5	3002.1	3634.3	4833.0	7433.1	24568.7	27234.6	27369.8	24449.9
75°	2229.2	2243.8	2411.9	2572.7	3018.5	3846.3	4971.8	17641.7	24080.8	24115.5	21091.5
77.5°	1849.1	1867.4	2041.0	2192.7	2448.5	2896.1	3429.7	9168.9	17122.8	18094.9	16377.3
80°	1019.6	1184.0	1470.9	1582.4	1772.4	1759.6	2181.7	4845.8	7577.4	9474.1	10817.1
82.5°	171.8	221.1	593.8	774.7	844.2	741.8	1059.8	2667.7	4224.5	4847.6	5821.5
85°	73.1	106.0	310.6	339.9	212.0	206.5	418.4	1396.0	2417.4	2784.7	3000.3
87.5°	9.1	16.4	80.4	106.0	49.3	67.6	84.1	436.7	842.3	968.4	1094.5
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°	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8	7478.8
2.5°	7413.0	7371.0	7274.1	7199.2	7144.4	7069.5	6989.1	6930.6	6868.5	6841.1	6852.0
5°	7424.0	7330.8	7124.3	6961.7	6780.8	6647.4	6473.8	6386.1	6291.1	6243.6	6241.7
7.5°	7453.2	7307.0	6981.8	6726.0	6468.3	6260.0	6033.4	5878.1	5794.1	5732.0	5724.6
10°	7526.3	7318.0	6874.0	6526.8	6194.2	5914.7	5638.8	5437.8	5322.7	5258.7	5267.8
12.5°	7657.8	7358.2	6797.2	6364.2	5936.6	5604.1	5251.4	5015.7	4875.0	4796.4	4818.4
15°	7838.7	7445.9	6718.6	6163.2	5660.7	5269.7	4893.3	4626.5	4469.4	4401.7	4423.7
17.5°	8041.5	7573.8	6663.8	5938.4	5370.2	4928.0	4579.0	4317.7	4054.6	4001.6	4001.6
20°	8268.1	7716.3	6654.7	5724.6	5083.3	4602.7	4200.8	3981.5	3599.6	3469.9	3442.5
22.5°	8567.8	7917.3	6643.7	5529.1	4778.2	4266.5	3773.2	3427.8	2932.7	2709.8	2687.8
25°	8980.7	8195.0	6662.0	5368.3	4500.4	3888.3	3184.8	2631.2	2214.6	1935.0	1920.4
27.5°	9534.4	8566.0	6720.5	5218.5	4222.7	3422.4	2466.7	1876.5	1555.0	1304.6	1229.7
30°	10581.4	9152.5	6822.8	5085.1	3899.3	2797.5	1754.1	1269.9	1039.7	866.1	827.7
32.5°	12582.2	10625.2	6963.5	4937.1	3500.9	2061.1	1171.2	847.8	661.4	561.0	582.9
35°	14577.5	12461.6	7634.1	4719.7	2976.5	1372.2	782.0	540.9	416.6	412.9	436.7
37.5°	16375.4	14086.0	8540.4	4476.7	2274.9	922.7	469.6	360.0	349.0	380.1	427.6
40°	17866.4	15405.2	9306.0	4136.8	1562.3	564.6	307.0	327.1	310.6	323.4	317.9
42.5°	19251.5	16592.9	9927.2	3751.3	920.9	325.2	266.8	303.3	279.6	268.6	246.7
45°	20497.6	17713.0	10239.7	3144.6	537.2	259.5	243.0	286.9	270.4	250.3	217.4
47.5°	21632.3	18696.0	10444.3	2315.1	308.8	226.6	226.6	257.6	254.0	230.2	212.0
50°	22809.1	19657.1	10424.2	1421.6	261.3	208.3	215.6	215.6	228.4	179.1	162.6
52.5°	23848.7	20521.4	10007.6	805.8	241.2	197.3	195.5	175.4	186.4	138.9	129.7
55°	24692.9	21193.8	9307.8	531.7	228.4	195.5	171.8	151.7	142.5	100.5	104.2
57.5°	25522.5	21833.3	8237.1	420.3	237.5	188.2	157.1	129.7	111.5	78.6	74.9
60°	26322.8	22343.1	7102.4	378.2	250.3	188.2	129.7	109.6	74.9	60.3	53.0
62.5°	26807.0	22454.6	5847.1	341.7	257.6	175.4	116.9	89.5	54.8	40.2	36.5
63°	26841.7	22421.7	5624.1	336.2	259.5	175.4	116.9	85.9	53.0	36.5	32.9
65°	26788.7	22006.9	4754.4	317.9	264.9	168.1	111.5	69.4	42.0	25.6	21.9
67.5°	25902.5	20620.1	3524.7	297.8	254.0	166.3	102.3	56.6	32.9	16.4	12.8
70°	23733.6	18467.6	2355.3	264.9	244.8	162.6	120.6	47.5	27.4	9.1	7.3
72.5°	20704.1	16145.2	1576.9	217.4	213.8	133.4	73.1	40.2	20.1	3.7	0.0
75°	17499.2	12993.3	975.7	166.3	173.6	113.3	58.5	34.7	16.4	0.0	0.0
77.5°	13621.8	9598.3	694.3	106.0	122.4	96.8	49.3	29.2	12.8	0.0	0.0
80°	9293.2	6504.9	502.5	58.5	64.0	64.0	40.2	21.9	7.3	0.0	0.0
82.5°	5390.3	3645.3	255.8	29.2	27.4	32.9	18.3	11.0	1.8	0.0	0.0
85°	2629.4	1615.3	43.9	16.4	14.6	14.6	7.3	0.0	0.0	0.0	0.0
87.5°	891.7	418.4	5.5	7.3	5.5	1.8	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)