

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: P285839

Luminaire Tested: **PRV-XL-C175-D-UNV-T4-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
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-T4-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49451 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

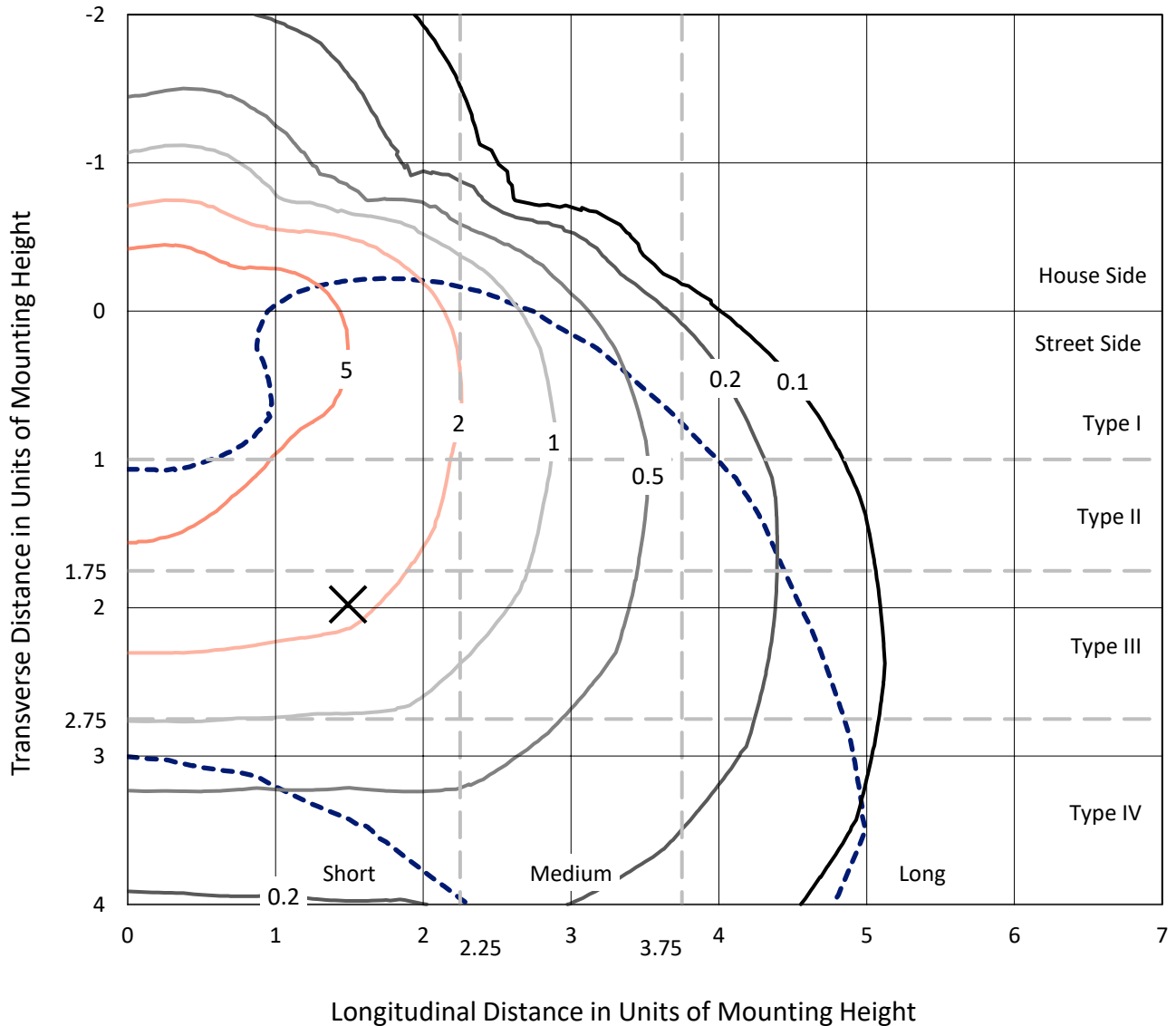
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

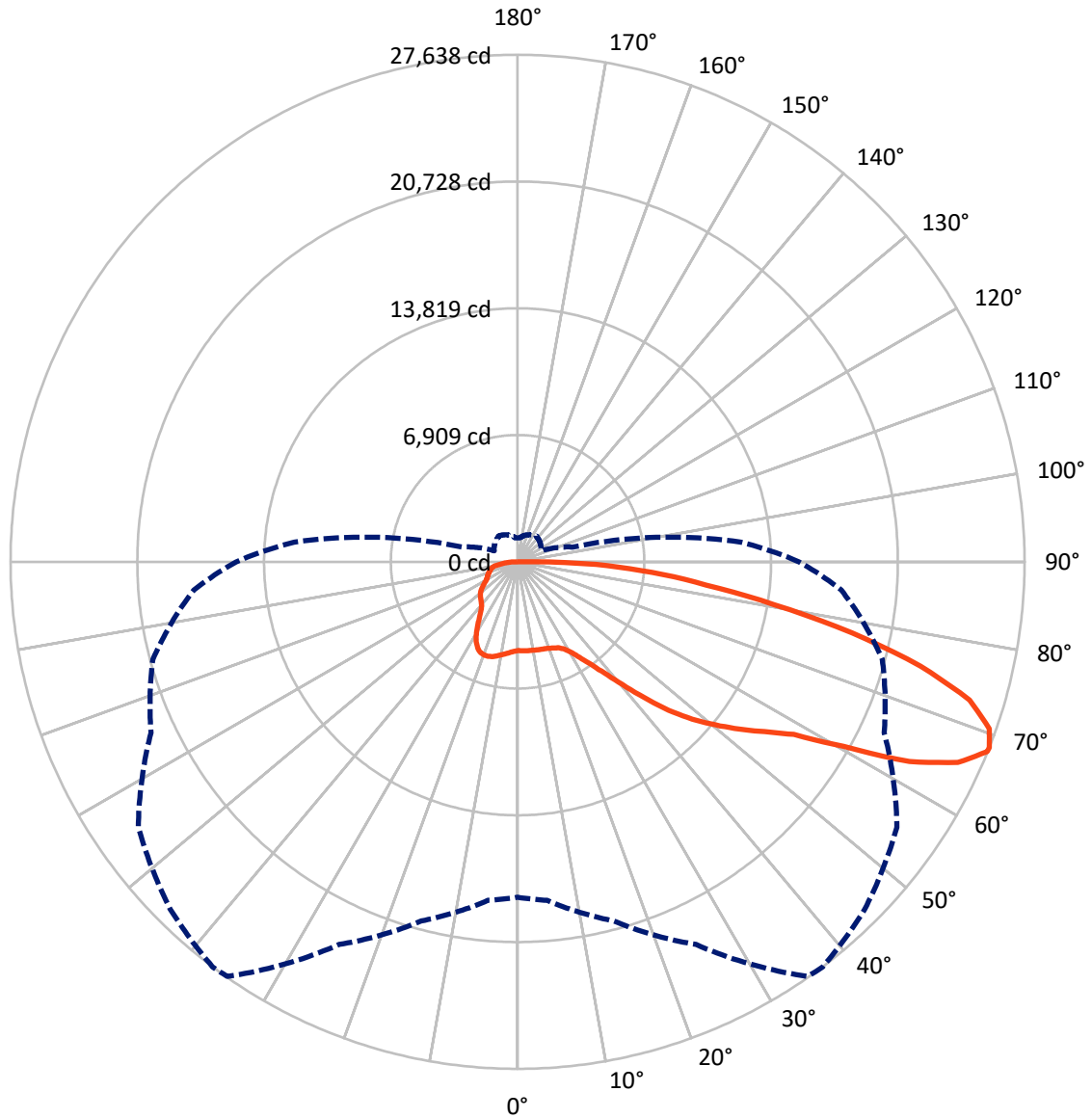
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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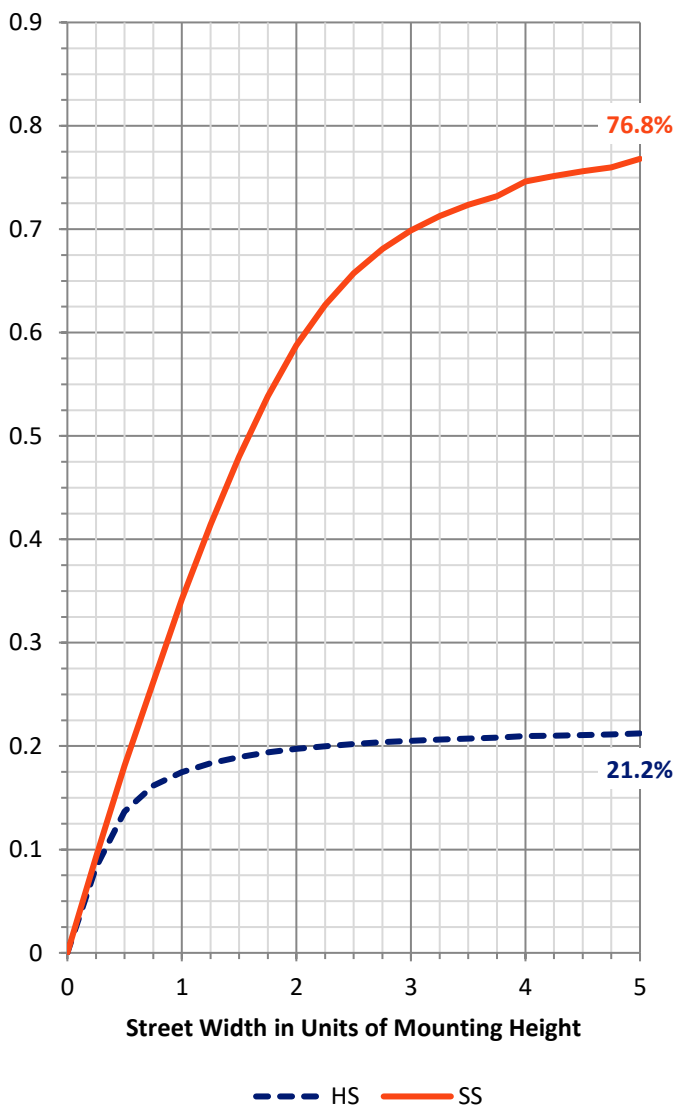
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10677.9	0.0	10677.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	38773.1	0.0	38773.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	49451.0	0.0	49451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	0.9
10°-20°	1459.6	3.0
20°-30°	2493.1	5.0
30°-40°	3971.9	8.0
40°-50°	6888.7	13.9
50°-60°	9985.5	20.2
60°-70°	12592.8	25.5
70°-80°	9331.2	18.9
80°-90°	2258.6	4.6
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°	49451.0	100.0
0°-180°	49451.0	100.0

Coefficient of Utilization

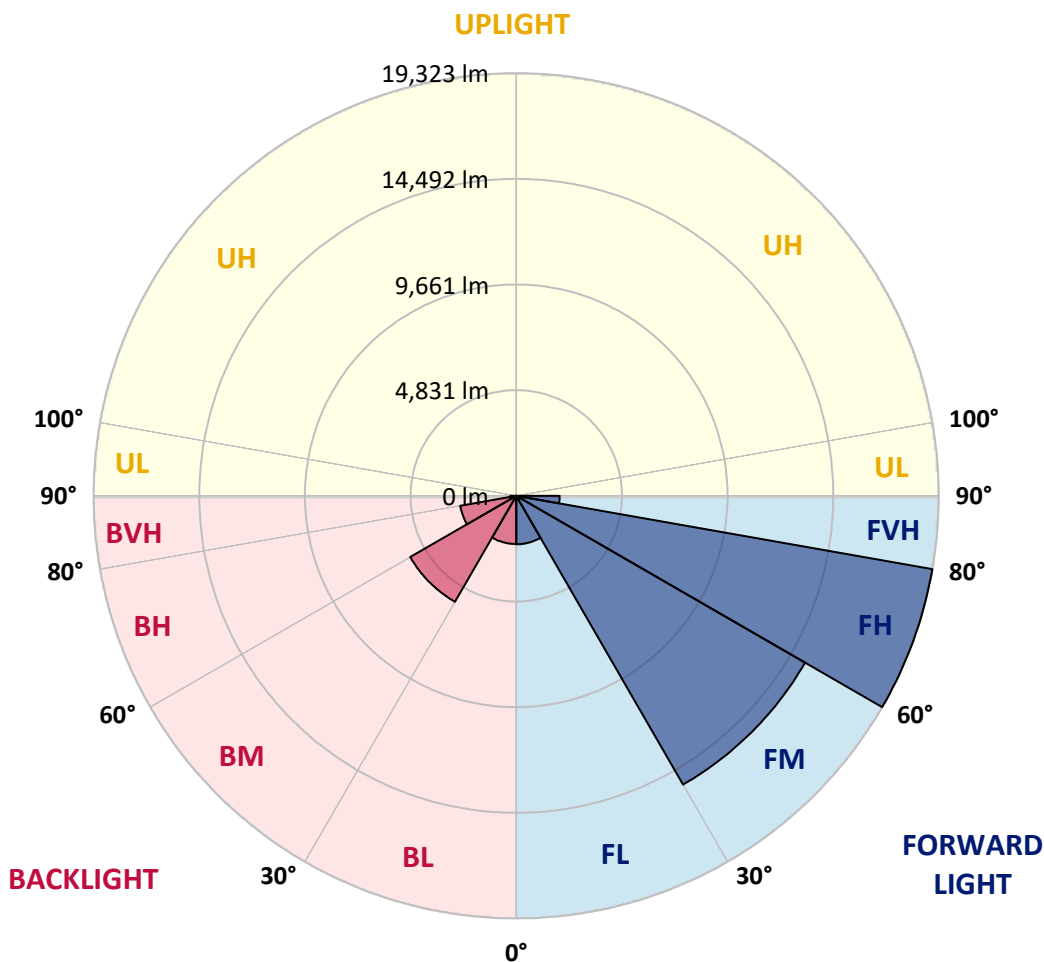


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.9	4.5			
FM (30°-60°)	15248.5	30.8			
FH (60°-80°)	19322.9	39.1			G5
FVH (80°-90°)	1984.8	4.0			G5
BL (0°-30°)	2205.4	4.5	B3/2500		
BM (30°-60°)	5597.6	11.3	B4/8500		
BH (60°-80°)	2601.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	273.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7
2.5°	4833.6	4846.9	4850.7	4843.1	4850.7	4858.3	4841.2	4839.3	4831.7	4801.4	4805.2
5°	4835.5	4852.6	4854.5	4848.8	4862.1	4869.6	4862.1	4854.5	4846.9	4803.3	4812.8
7.5°	4835.5	4848.8	4852.6	4848.8	4867.8	4881.0	4881.0	4886.7	4886.7	4837.4	4845.0
10°	4818.5	4829.9	4835.5	4845.0	4877.2	4896.2	4907.5	4934.1	4949.2	4915.1	4917.0
12.5°	4740.8	4750.3	4769.2	4824.2	4900.0	4922.7	4954.9	5002.3	5040.2	5040.2	5044.0
15°	4680.2	4689.6	4725.6	4799.5	4915.1	4945.4	5008.0	5087.5	5157.7	5195.6	5225.9
17.5°	4695.3	4706.7	4759.7	4822.3	4937.9	4968.2	5057.2	5172.8	5288.4	5369.9	5430.5
20°	4742.7	4750.3	4810.9	4882.9	5006.1	5026.9	5114.1	5256.2	5417.2	5551.8	5650.3
22.5°	4877.2	4873.4	4922.7	4951.1	5078.1	5097.0	5197.4	5343.3	5551.8	5754.5	5898.5
25°	4989.0	5006.1	5045.9	5068.6	5172.8	5189.9	5314.9	5476.0	5716.6	5978.1	6209.3
27.5°	5112.2	5127.3	5167.1	5218.3	5364.2	5373.7	5460.8	5659.8	5926.9	6247.2	6616.7
30°	5390.7	5388.8	5428.6	5483.6	5680.6	5697.7	5779.2	5983.8	6232.0	6631.8	7077.1
32.5°	5872.0	5868.2	5873.9	5949.7	6163.8	6203.6	6307.8	6578.8	6889.5	7276.0	7770.6
35°	6859.2	6819.4	6743.6	6683.0	6804.2	6849.7	7077.1	7412.5	7967.7	8727.5	9339.5
37.5°	8490.6	8428.1	8172.3	7825.5	7685.3	7679.6	7838.8	8348.5	9212.5	10736.0	11289.2
40°	10053.8	10055.7	9709.0	9239.1	8801.4	8778.6	8687.7	9318.6	10559.7	12621.3	12880.9
42.5°	11535.6	11526.1	11122.5	10692.4	10169.4	10101.2	9835.9	10321.0	11905.1	14173.1	14224.3
45°	12871.4	12841.1	12407.2	12130.5	11681.5	11545.0	11192.6	11346.1	13165.1	15418.0	15238.0
47.5°	14161.8	14131.4	13589.5	13322.4	12928.2	12814.6	12441.3	12509.5	14370.2	16454.5	16058.5
50°	15493.8	15484.3	14699.9	14440.3	14021.5	13974.2	13748.7	13798.0	15628.3	17316.6	16822.1
52.5°	17072.2	16827.8	15946.7	15450.2	15152.7	15150.9	14898.8	15025.8	17019.1	18085.9	17352.6
55°	18766.1	18457.3	17555.4	16841.0	16329.4	16337.0	15944.8	16149.4	18241.3	18773.7	17860.4
57.5°	19975.0	19910.6	19641.5	18927.2	17869.9	17744.8	17142.3	17303.3	19313.7	19486.2	18226.1
60°	21102.4	21377.2	21557.2	21329.8	20797.4	20435.5	18764.2	18523.6	20259.2	20113.3	18417.5
62.5°	21813.0	21955.1	22794.5	23107.1	23942.7	23971.2	21972.1	20001.5	21064.5	20507.5	18502.8
65°	21030.4	21240.8	22631.5	23853.7	26237.3	26373.8	25530.6	22466.7	21706.9	20643.9	18341.7
67.5°	18847.6	19067.4	20738.6	23245.5	27506.9	27599.7	26724.3	25024.7	22027.1	20615.5	17869.9
68°	18288.6	18523.6	20266.8	23016.2	27594.0	27637.6	26771.7	25236.9	22047.9	20583.3	17716.4
70°	15975.1	16206.3	17972.2	21581.8	27249.2	27277.6	26472.3	25460.5	21939.9	20306.6	16706.5
72.5°	12549.3	12782.3	14175.0	18307.6	25517.3	25765.5	25354.4	24823.8	21483.3	19228.5	14324.7
75°	8892.3	9131.1	10580.6	14328.5	21998.7	22688.4	23508.8	23603.6	19774.2	16513.2	10671.5
77.5°	6269.9	6465.1	7719.4	10711.3	17754.3	18646.8	20355.9	20496.1	16560.6	12600.4	5629.5
80°	4070.0	4236.8	5360.4	7850.2	13420.9	14192.1	16069.8	15490.0	11768.6	6851.6	979.6
82.5°	2457.6	2582.6	3414.4	5430.5	9820.8	10334.3	11099.8	9299.7	5460.8	968.2	343.0
85°	1409.7	1495.0	2108.9	3488.3	6919.8	7357.5	7463.6	4668.8	1027.0	267.2	193.3
87.5°	721.9	765.5	1131.2	2143.0	4089.0	4276.6	3744.1	1671.2	204.6	119.4	96.6
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°	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7	4831.7
2.5°	4786.3	4799.5	4809.0	4841.2	4875.3	4892.4	4875.3	4901.9	4911.3	4903.8	4892.4
5°	4797.6	4818.5	4833.6	4898.1	4936.0	4964.4	4945.4	4983.3	4996.6	4981.4	4981.4
7.5°	4829.9	4858.3	4882.9	4968.2	5011.8	5049.7	5038.3	5064.8	5076.2	5057.2	5068.6
10°	4915.1	4943.5	4975.8	5081.9	5110.3	5146.3	5125.4	5146.3	5150.1	5136.8	5146.3
12.5°	5062.9	5081.9	5144.4	5252.4	5256.2	5265.7	5222.1	5182.3	5165.2	5140.6	5157.7
15°	5252.4	5286.5	5371.8	5462.7	5438.1	5417.2	5309.2	5180.4	5098.9	5038.3	5034.5
17.5°	5462.7	5523.4	5629.5	5688.2	5631.4	5536.6	5354.7	5136.8	4939.8	4831.7	4797.6
20°	5678.7	5773.5	5890.9	5902.3	5805.7	5623.8	5347.1	5025.0	4699.1	4498.3	4449.0
22.5°	5942.1	6065.3	6171.4	6114.5	5921.3	5654.1	5277.0	4828.0	4380.8	4075.7	4030.2
25°	6290.7	6412.0	6431.0	6264.2	5964.8	5597.3	5116.0	4534.3	3967.7	3588.8	3552.8
27.5°	6711.4	6775.8	6652.7	6341.9	5911.8	5426.7	4841.2	4126.9	3507.3	3177.6	3122.6
30°	7177.5	7154.8	6815.6	6343.8	5756.4	5136.8	4424.4	3664.6	3143.5	2859.3	2806.2
32.5°	7768.7	7619.0	6980.5	6258.5	5500.6	4746.5	3933.6	3295.1	2893.4	2603.5	2552.3
35°	8943.5	8488.7	7204.0	6124.0	5161.4	4278.5	3503.5	3027.9	2679.3	2345.8	2298.4
37.5°	10730.3	9788.6	7607.6	5976.2	4784.4	3799.1	3173.8	2819.5	2510.6	2154.4	2080.5
40°	12297.3	11224.8	8251.9	5837.9	4399.7	3435.3	2984.3	2719.0	2417.8	2057.8	1982.0
42.5°	13500.5	12375.0	8988.9	5673.0	3998.0	3166.2	2904.7	2705.8	2406.4	2057.8	1987.6
45°	14472.5	13324.3	9644.6	5493.0	3609.6	2954.0	2832.7	2681.1	2383.7	2046.4	1980.1
47.5°	15239.9	14032.9	10161.8	5286.5	3206.0	2810.0	2758.8	2595.9	2324.9	2012.3	1946.0
50°	15905.0	14540.7	10451.7	5044.0	2847.9	2696.3	2654.6	2459.5	2207.4	1911.9	1868.3
52.5°	16369.2	14953.8	10561.6	4943.5	2592.1	2567.5	2512.5	2321.1	2080.5	1792.5	1743.2
55°	16717.9	15166.0	10470.7	4714.3	2336.3	2368.5	2343.9	2215.0	1991.4	1718.6	1669.3
57.5°	16896.0	15236.1	10211.1	3850.2	2093.8	2131.7	2148.7	2156.3	1978.2	1739.4	1694.0
60°	16958.5	15126.2	9644.6	2749.4	1834.2	1910.0	2004.7	2033.1	1919.4	1659.8	1622.0
62.5°	16863.8	14840.1	8534.2	1900.5	1637.1	1771.6	1896.7	1889.1	1767.9	1542.4	1491.2
65°	16494.3	14139.0	6489.7	1532.9	1570.8	1709.1	1847.4	1754.6	1637.1	1428.7	1402.2
67.5°	15599.9	12663.0	3639.9	1415.4	1549.9	1673.1	1762.2	1650.4	1519.6	1322.6	1311.2
68°	15334.6	12229.1	3107.5	1407.8	1546.2	1661.7	1739.4	1623.8	1496.9	1305.5	1297.9
70°	13788.5	9993.2	1402.2	1383.2	1523.4	1620.1	1676.9	1549.9	1413.5	1246.8	1235.4
72.5°	10654.5	6188.4	941.7	1315.0	1466.6	1557.5	1593.5	1474.2	1360.5	1174.8	1159.6
75°	6315.4	1701.5	892.5	1197.5	1369.9	1496.9	1534.8	1415.4	1280.9	1066.8	1042.1
77.5°	1553.7	613.9	864.0	1064.9	1269.5	1396.5	1457.1	1375.6	1212.7	960.7	936.0
80°	471.8	488.9	822.3	920.9	1142.6	1246.8	1282.8	1282.8	1121.7	676.4	712.4
82.5°	310.7	392.2	701.1	691.6	907.6	1032.7	964.5	968.2	881.1	301.3	352.4
85°	195.2	320.2	473.7	452.9	577.9	632.9	685.9	704.9	619.6	87.2	5.7
87.5°	100.4	136.4	166.7	178.1	229.3	327.8	439.6	432.0	318.3	77.7	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)