

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: P285788

Luminaire Tested: **PRV-XL-C150-D-UNV-T3-BZ-7030**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
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-T3-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40377 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

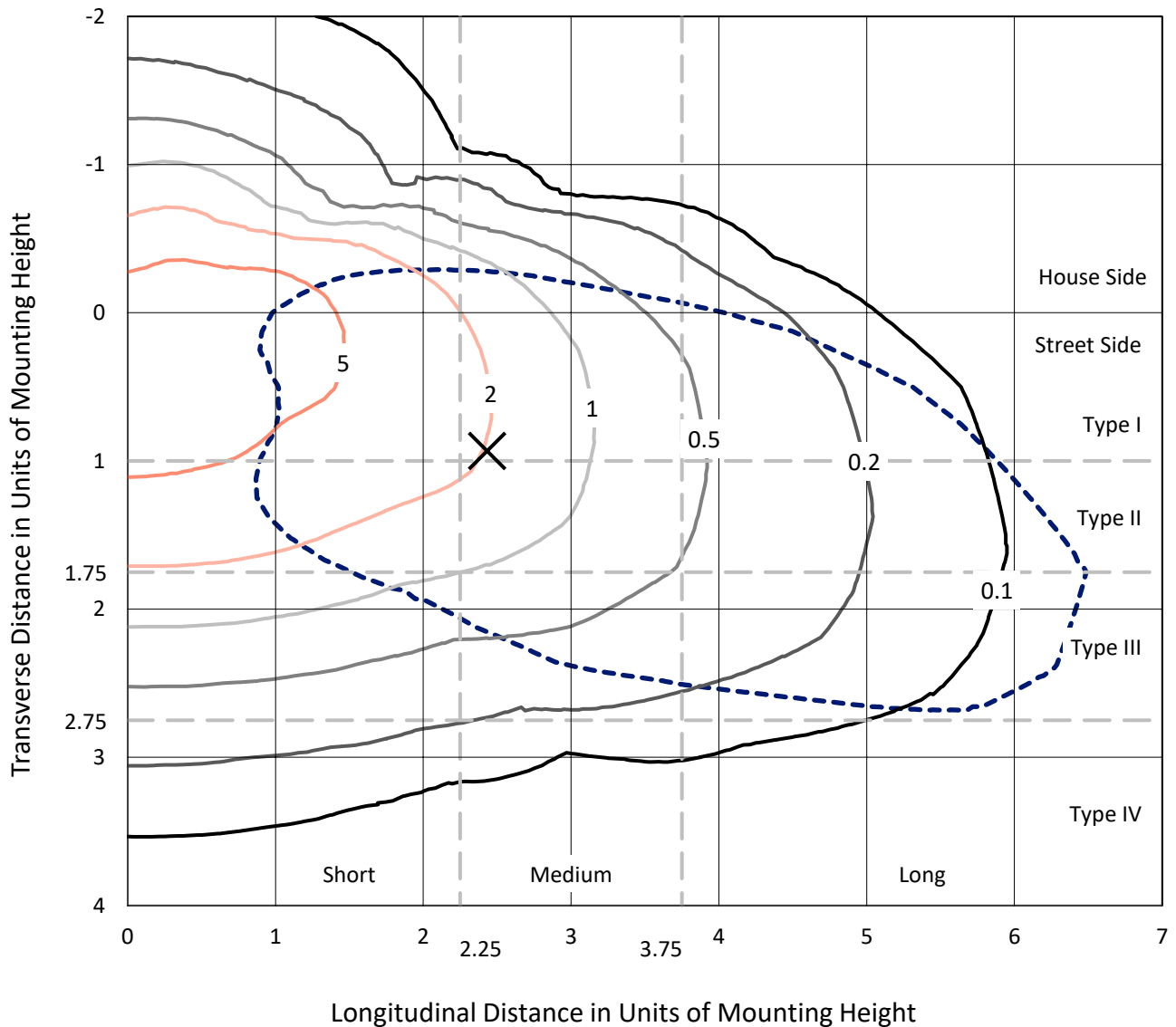
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

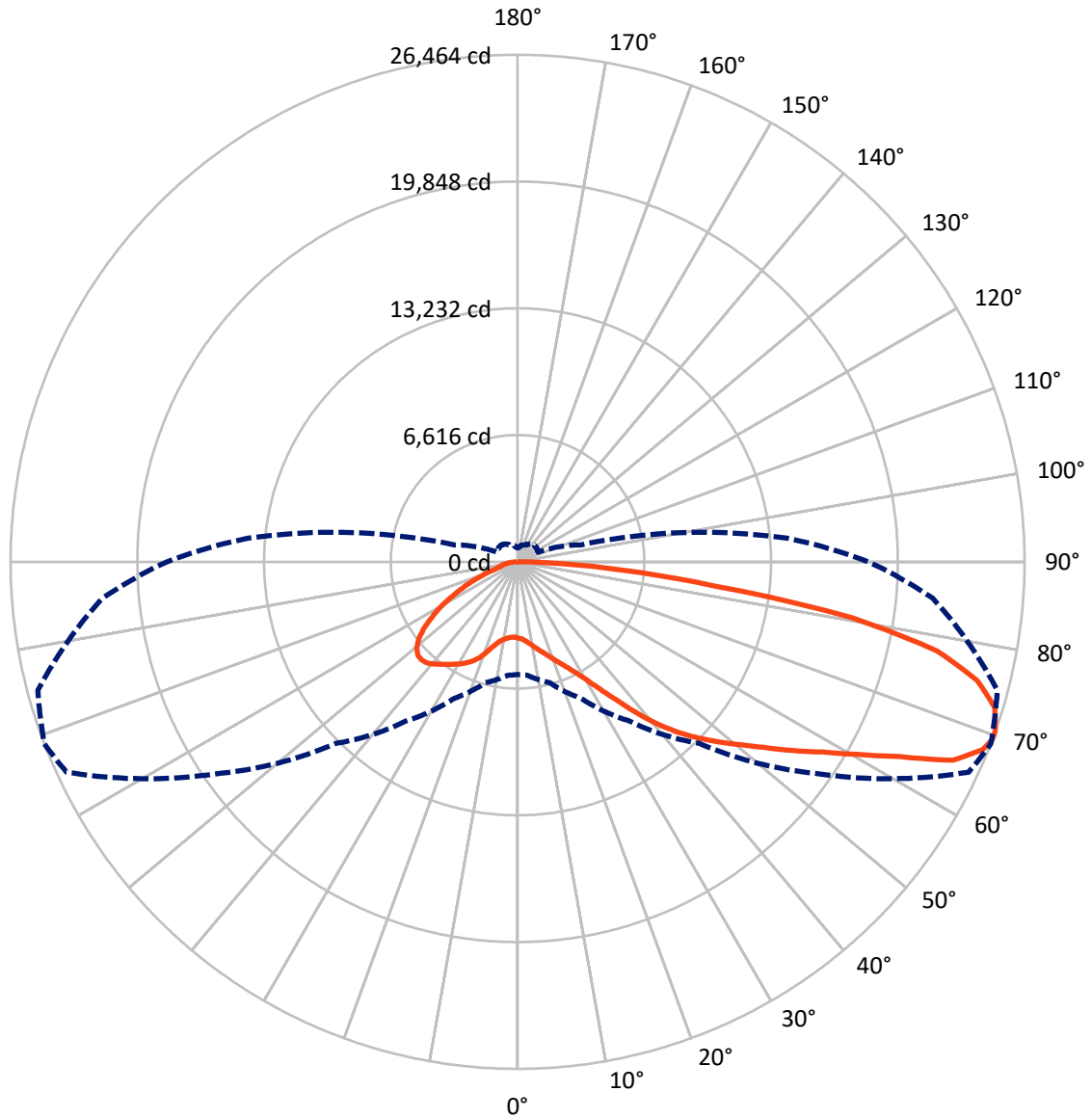
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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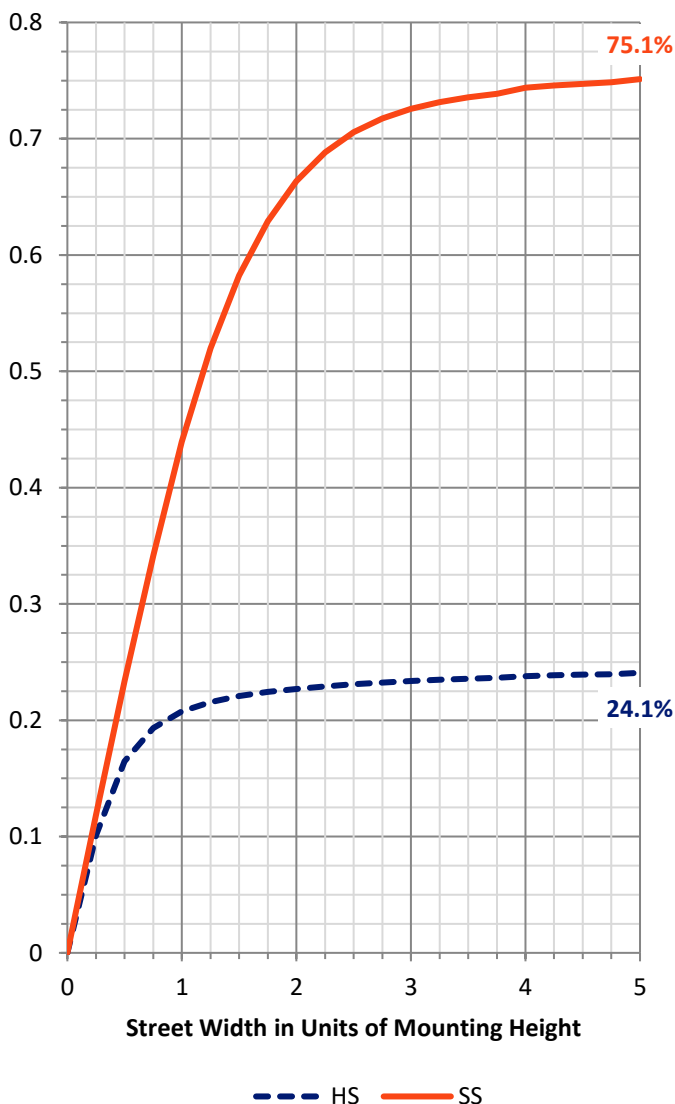
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9926.8	0.0	9926.8
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	30450.2	0.0	30450.2
	% Fixture	75.4	0.0	75.4
Total	Lumens	40377.0	0.0	40377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.4	1.0
10°-20°	1278.9	3.2
20°-30°	2395.1	5.9
30°-40°	4069.6	10.1
40°-50°	6245.1	15.5
50°-60°	8159.5	20.2
60°-70°	9291.1	23.0
70°-80°	7014.6	17.4
80°-90°	1530.8	3.8
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°	40377.0	100.0
0°-180°	40377.0	100.0

Coefficient of Utilization

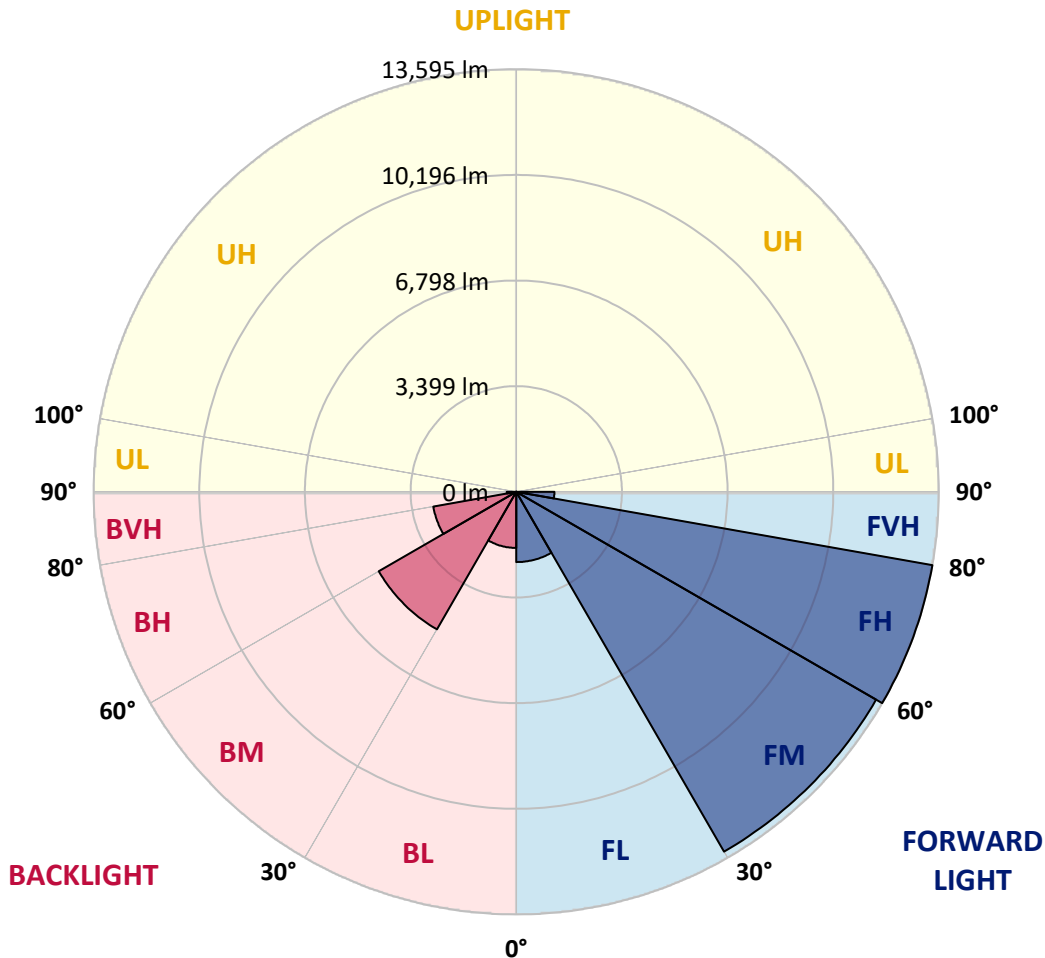


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2261.4	5.6			
FM (30°-60°)	13366.4	33.1			
FH (60°-80°)	13595.1	33.7			G5
FVH (80°-90°)	1227.3	3.0			G5
BL (0°-30°)	1805.0	4.5	B3/2500		
BM (30°-60°)	5107.8	12.7	B4/8500		
BH (60°-80°)	2710.5	6.7	B4/5000		G4/5000
BVH (80°-90°)	303.5	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
2.5°	4135.1	4147.4	4145.9	4139.7	4136.6	4119.6	4098.0	4070.1	4023.8	4002.1	3974.3
5°	4311.3	4320.5	4322.1	4311.3	4298.9	4272.6	4227.8	4184.5	4133.5	4102.6	4048.5
7.5°	4461.2	4468.9	4482.9	4473.6	4467.4	4445.8	4402.5	4351.5	4285.0	4241.7	4166.0
10°	4581.8	4588.0	4598.8	4614.3	4643.6	4625.1	4574.1	4538.5	4478.2	4411.8	4317.5
12.5°	4668.4	4663.7	4694.6	4722.5	4782.7	4802.8	4767.3	4741.0	4682.3	4614.3	4503.0
15°	4708.5	4707.0	4761.1	4830.7	4920.3	4952.8	4952.8	4923.4	4891.0	4838.4	4720.9
17.5°	4795.1	4801.3	4836.9	4926.5	5022.3	5098.1	5170.7	5173.8	5149.1	5113.6	4991.4
20°	4928.1	4938.9	4957.4	5028.5	5135.2	5268.1	5404.2	5453.6	5441.3	5427.4	5331.5
22.5°	5095.0	5099.6	5095.0	5156.8	5299.0	5478.4	5674.7	5756.6	5764.3	5765.9	5718.0
25°	5362.4	5342.3	5291.3	5347.0	5512.4	5719.5	5959.1	6095.1	6130.7	6163.2	6277.5
27.5°	5850.9	5804.5	5708.7	5690.1	5784.4	6011.7	6308.5	6535.7	6586.7	6676.4	6980.9
30°	6639.3	6577.4	6487.8	6214.2	6177.1	6371.8	6749.0	7073.6	7175.7	7447.7	7798.6
32.5°	7438.5	7398.3	7297.8	7035.0	6756.8	6829.4	7200.4	7707.4	7926.9	8477.2	8801.9
35°	8124.8	8104.7	8047.5	7919.2	7596.1	7392.1	7715.2	8420.0	8829.7	9689.2	9981.3
37.5°	8786.4	8777.1	8780.2	8605.5	8469.5	8175.8	8305.7	9251.7	9924.1	10958.3	11154.6
40°	9364.5	9369.2	9417.1	9336.7	9313.5	9131.1	9001.3	10139.0	11060.3	12213.5	12259.8
42.5°	9839.1	9843.7	10066.3	9945.8	10089.5	10049.3	9862.3	10967.5	12105.3	13229.1	13222.9
45°	10151.4	10159.1	10378.6	10476.0	10780.5	10913.4	10774.3	11817.7	13080.7	14168.9	14046.8
47.5°	10383.2	10377.0	10502.3	10894.9	11414.3	11677.1	11728.1	12783.9	14026.7	15039.2	14827.4
50°	10508.4	10522.4	10762.0	11286.0	12052.7	12419.1	12698.9	13924.7	14997.5	15878.6	15580.3
52.5°	10587.3	10656.8	11007.7	11630.7	12629.3	13202.8	13553.7	15189.2	16091.9	16750.4	16377.9
55°	10642.9	10769.7	11115.9	11811.6	12987.9	13838.1	14356.0	16493.8	17384.2	17738.2	17252.8
57.5°	10245.7	10367.8	10930.4	11839.4	13270.8	14360.6	15210.8	17871.2	18732.2	18956.3	18118.5
60°	9567.0	9639.7	10364.7	11621.4	13209.0	14835.2	16333.1	19505.1	20406.3	20423.3	19030.5
62.5°	8868.3	8897.7	9630.4	11052.6	12930.7	14991.3	17455.3	21683.1	22391.1	22174.7	19999.7
65°	7940.8	7973.3	8729.2	10117.4	12258.3	14818.2	18373.5	23978.7	24969.5	24391.4	20961.2
67.5°	6728.9	6800.0	7501.8	8788.0	11061.8	14148.8	19032.1	25560.0	26167.5	25669.8	21625.9
69°	5880.3	5946.7	6535.7	7868.2	10129.7	13394.5	19308.8	25977.4	26464.3	25921.8	21737.2
70°	5269.7	5320.7	5872.5	7180.3	9400.1	12749.9	19369.0	26090.2	26448.9	25931.0	21676.9
72.5°	3756.3	3799.6	4099.5	5023.9	7124.7	10680.0	19073.8	25784.2	26047.0	25300.3	20887.0
75°	2777.8	2811.8	2991.1	3318.9	4147.4	7557.5	17234.3	24512.0	24791.8	23921.5	19240.7
77.5°	2015.7	2043.6	2216.7	2536.7	2918.5	3558.5	11947.6	22122.1	22397.3	21698.6	16563.4
80°	1375.8	1405.1	1561.3	1831.8	2133.2	2368.2	5866.4	16190.9	17707.3	17367.2	11803.8
82.5°	258.2	316.9	670.9	950.7	1199.6	1283.0	2218.2	8902.3	10344.6	10551.7	6155.4
85°	171.6	185.5	409.6	398.8	391.1	573.5	868.7	4268.0	5399.5	5594.3	2657.3
87.5°	85.0	89.7	122.1	168.5	214.9	258.2	286.0	1125.4	1626.2	1743.7	496.2
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°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
2.5°	3963.5	3955.7	3932.6	3923.3	3917.1	3914.0	3876.9	3870.7	3852.2	3839.8	3829.0
5°	4022.2	4009.8	3955.7	3935.6	3904.7	3878.4	3816.6	3790.3	3771.8	3747.1	3736.2
7.5°	4125.8	4104.1	4022.2	3985.1	3931.0	3886.2	3801.2	3761.0	3725.4	3691.4	3685.2
10°	4266.4	4226.3	4113.4	4056.2	3977.4	3924.8	3825.9	3748.6	3696.0	3657.4	3655.8
12.5°	4450.4	4390.1	4254.1	4178.3	4080.9	4000.6	3887.7	3771.8	3685.2	3623.4	3620.3
15°	4669.9	4606.5	4468.9	4371.6	4257.2	4149.0	3968.1	3796.5	3652.8	3553.8	3541.5
17.5°	4938.9	4878.6	4753.4	4674.5	4513.8	4300.5	4043.8	3787.2	3581.7	3445.6	3425.5
20°	5279.0	5296.0	5178.5	5006.9	4739.5	4425.7	4080.9	3739.3	3441.0	3250.8	3223.0
22.5°	5753.5	5810.7	5614.4	5299.0	4911.1	4492.1	4065.5	3612.6	3247.8	3017.4	2994.2
25°	6334.7	6317.7	5963.7	5513.9	4999.2	4490.6	3978.9	3431.7	3002.0	2742.3	2725.3
27.5°	6942.2	6840.2	6293.0	5663.9	5014.6	4405.6	3808.9	3159.6	2719.1	2502.7	2451.7
30°	7716.7	7432.3	6630.0	5790.6	4963.6	4243.3	3501.3	2898.4	2556.8	2321.8	2287.8
32.5°	8611.7	8138.7	7008.7	5829.3	4850.8	3994.4	3167.4	2777.8	2450.1	2182.7	2144.0
35°	9652.1	9043.0	7447.7	5843.2	4635.9	3624.9	2986.5	2708.3	2379.0	2076.0	2025.0
37.5°	10740.3	10001.4	7988.8	5827.7	4385.5	3219.9	2859.8	2607.8	2298.6	2051.3	2021.9
40°	11723.5	10924.3	8599.4	5784.4	4042.3	2957.1	2722.2	2468.7	2229.1	2042.0	2018.8
42.5°	12624.7	11728.1	9183.7	5711.8	3614.1	2770.1	2570.7	2365.1	2141.0	1912.2	1865.8
45°	13405.3	12470.1	9616.5	5538.7	3134.9	2578.4	2388.3	2221.3	2009.6	1782.3	1735.9
47.5°	14074.6	13082.2	9956.6	5241.9	2748.5	2399.1	2181.1	2049.7	1864.3	1647.8	1601.5
50°	14757.9	13580.0	10156.0	4751.8	2425.4	2193.5	1975.5	1850.3	1691.1	1533.4	1505.6
52.5°	15490.6	14388.4	10446.6	3944.9	2127.0	1977.1	1757.6	1621.6	1504.1	1437.6	1411.3
55°	16231.0	15105.7	10553.3	2983.4	1865.8	1807.1	1552.0	1375.8	1292.3	1250.6	1244.4
57.5°	16966.9	15717.8	10188.5	2123.9	1692.7	1610.7	1332.5	1165.5	1066.6	1096.0	1140.8
60°	17719.7	16164.6	9256.3	1661.7	1556.6	1375.8	1147.0	1023.3	980.0	947.6	949.1
62.5°	18415.3	16373.3	7670.3	1411.3	1425.2	1230.5	1082.1	961.5	918.2	862.6	845.6
65°	18877.5	16005.4	5986.9	1306.2	1306.2	1193.4	1079.0	963.0	904.3	806.9	789.9
67.5°	18744.5	15047.0	4430.3	1211.9	1230.5	1208.8	1105.3	960.0	887.3	794.5	788.4
69°	18316.3	14128.7	3402.3	1184.1	1218.1	1222.7	1136.2	975.4	905.8	765.2	731.2
70°	17886.6	13420.8	2816.5	1160.9	1215.0	1232.0	1160.9	994.0	891.9	718.8	697.2
72.5°	16425.8	11343.2	1419.1	1071.2	1210.4	1242.8	1215.0	1063.5	884.2	692.5	674.0
75°	14441.0	8724.6	910.5	995.5	1171.7	1255.2	1258.3	1128.4	887.3	677.1	653.9
77.5°	11570.4	5057.9	755.9	910.5	1099.1	1230.5	1272.2	1177.9	924.4	703.3	677.1
80°	6152.3	2000.3	607.5	777.5	1006.3	1156.3	1233.6	1160.9	915.1	587.4	570.4
82.5°	2723.7	621.4	445.2	610.6	791.5	1011.0	1048.1	1021.8	800.7	355.5	406.5
85°	765.2	256.6	296.8	439.0	547.2	715.7	820.8	823.9	621.4	154.6	35.6
87.5°	78.8	58.7	86.6	168.5	315.3	496.2	599.8	575.0	415.8	131.4	3.1
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)