

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: P285748

Luminaire Tested: **PRV-XL-C150-D-UNV-T2-BZ-7030**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
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-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40598 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

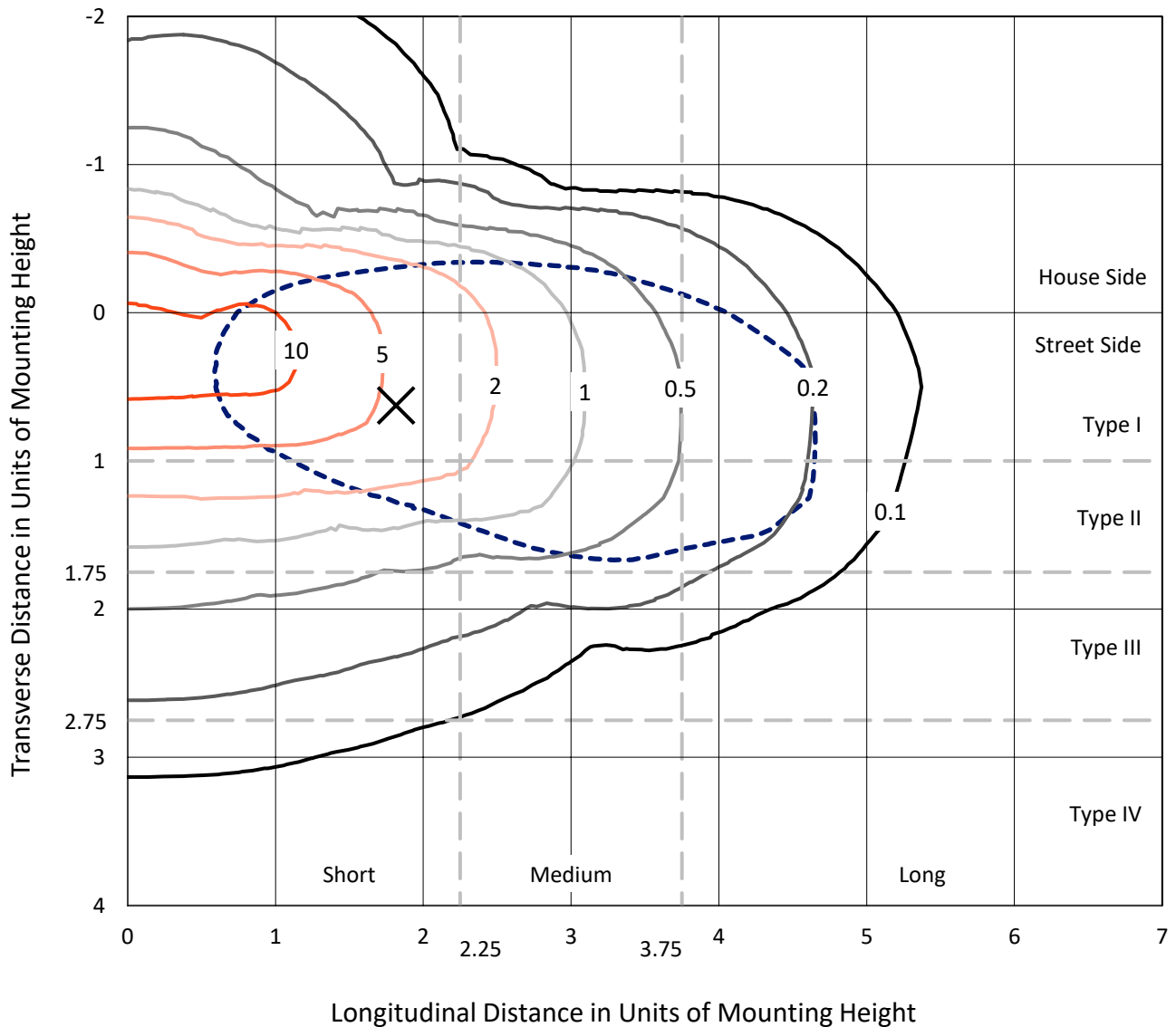
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

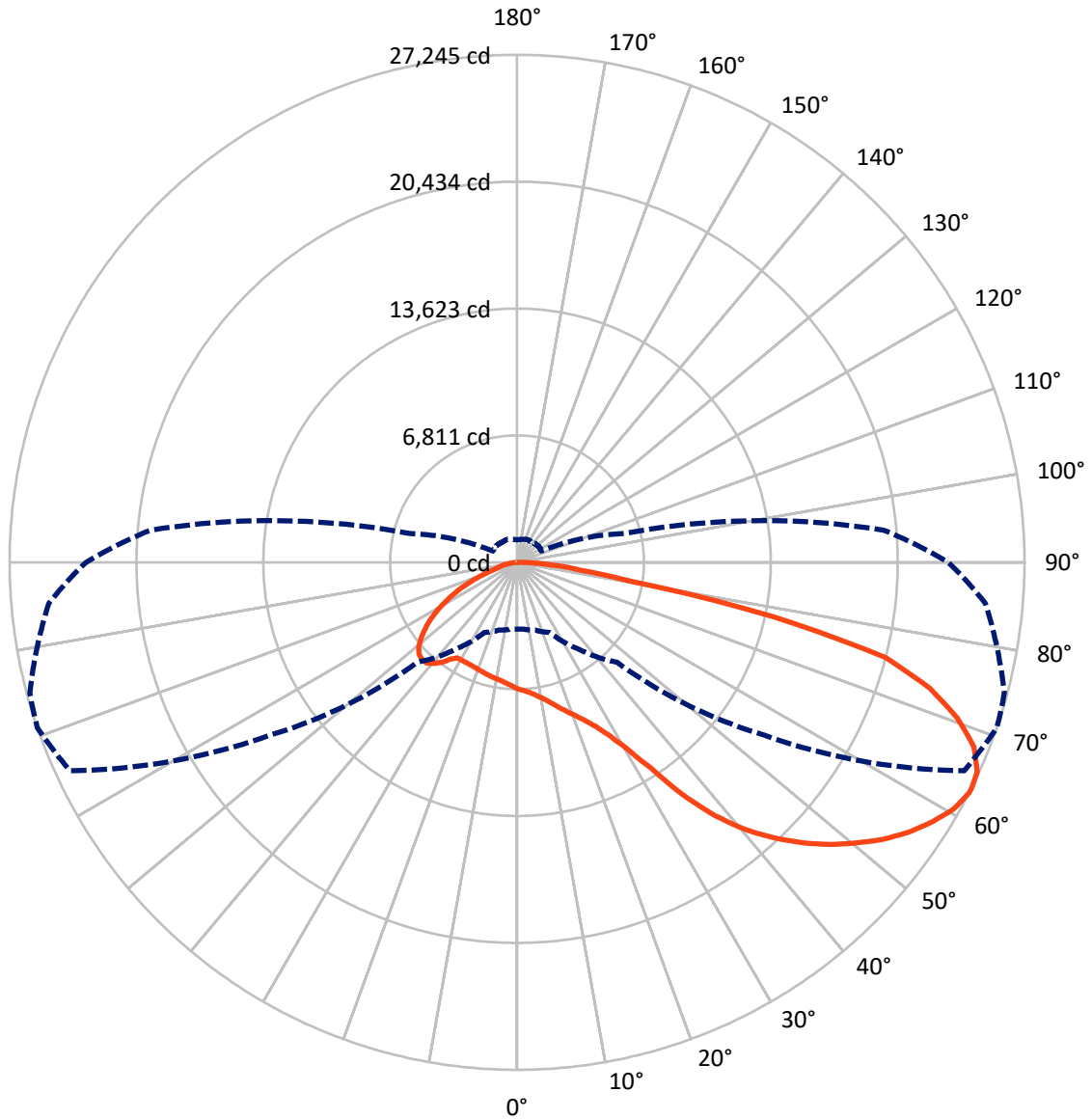
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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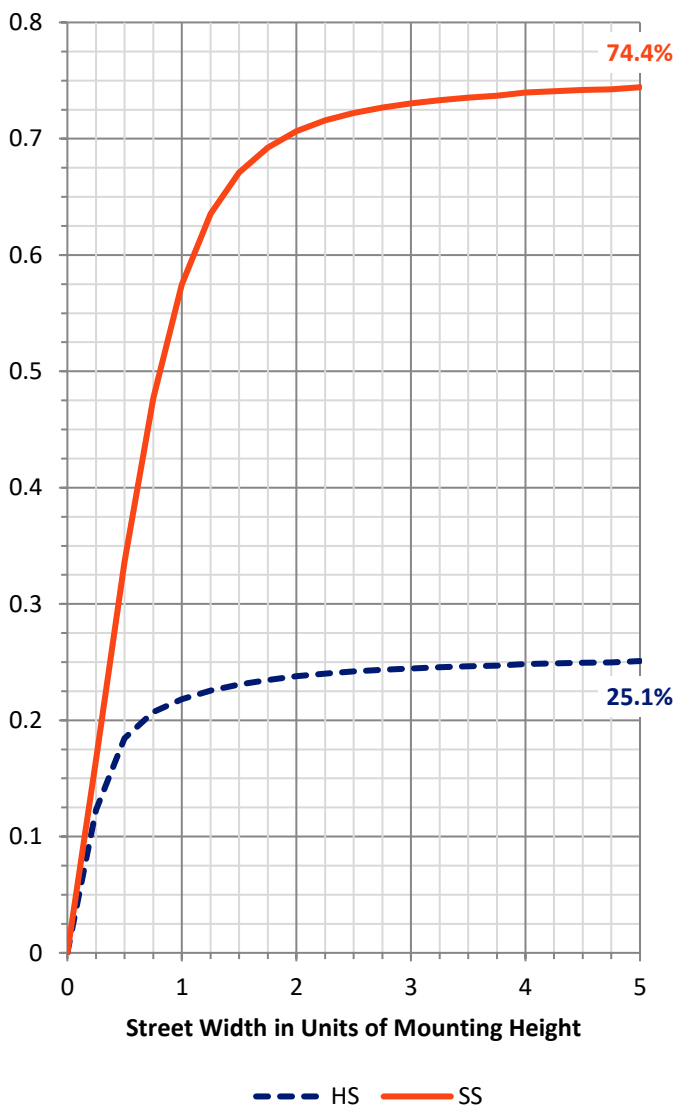
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10367.6	0.0	10367.6
	% Fixture	25.5	0.0	25.5
Street Side	Lumens	30230.4	0.0	30230.4
	% Fixture	74.5	0.0	74.5
Total	Lumens	40598.0	0.0	40598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.7	1.6
10°-20°	2006.9	4.9
20°-30°	3402.2	8.4
30°-40°	5127.8	12.6
40°-50°	7044.5	17.4
50°-60°	8190.0	20.2
60°-70°	8081.2	19.9
70°-80°	5167.3	12.7
80°-90°	922.4	2.3
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°	40598.0	100.0
0°-180°	40598.0	100.0

Coefficient of Utilization

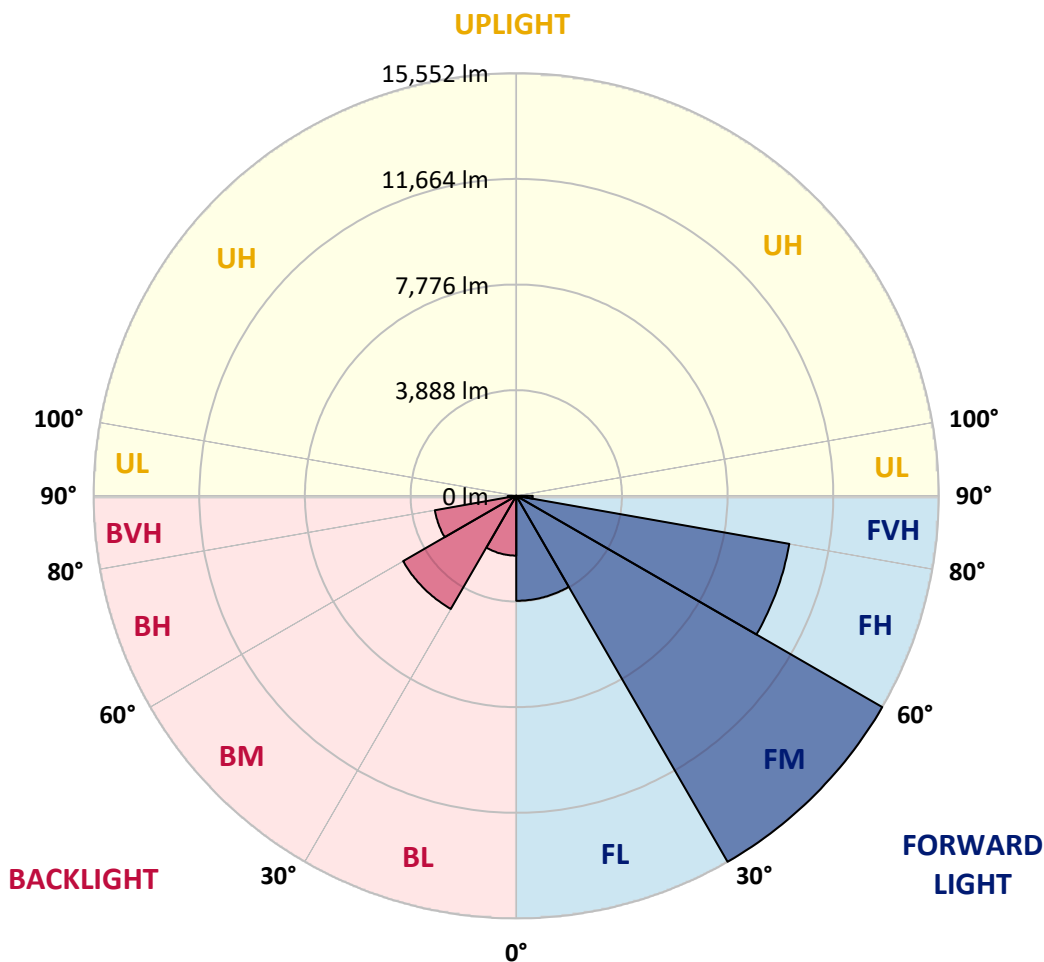


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3864.0	9.5			
FM (30°-60°)	15552.3	38.3			
FH (60°-80°)	10204.6	25.1			G4/12000
FVH (80°-90°)	609.5	1.5			G4/750
BL (0°-30°)	2200.9	5.4	B3/2500		
BM (30°-60°)	4809.9	11.8	B3/5000		
BH (60°-80°)	3043.9	7.5	B4/5000		G4/5000
BVH (80°-90°)	312.9	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3
2.5°	7256.1	7242.2	7225.2	7195.8	7161.8	7121.6	7079.9	6985.6	6888.2	6857.3	6790.8
5°	7654.9	7628.7	7607.0	7579.2	7514.3	7432.3	7322.6	7168.0	7016.5	6968.6	6831.0
7.5°	8007.4	7978.0	7939.4	7902.3	7831.2	7726.1	7577.7	7381.3	7198.9	7115.5	6891.3
10°	8321.2	8293.4	8273.3	8231.5	8174.3	8047.6	7871.4	7625.6	7413.8	7297.9	6987.1
12.5°	8669.0	8645.8	8604.1	8556.2	8480.4	8358.3	8182.1	7914.6	7689.0	7548.3	7134.0
15°	9023.0	9007.5	8933.3	8905.5	8820.5	8679.8	8523.7	8248.5	8018.2	7843.5	7344.2
17.5°	9336.8	9326.0	9279.6	9247.1	9177.6	9019.9	8859.1	8607.2	8372.2	8149.6	7577.7
20°	9537.8	9553.2	9543.9	9537.8	9533.1	9403.3	9244.1	8984.4	8747.8	8526.8	7828.1
22.5°	9724.8	9731.0	9755.7	9812.9	9894.9	9837.7	9666.1	9426.5	9185.3	8921.0	8152.7
25°	9783.6	9788.2	9884.0	10057.2	10287.5	10312.2	10171.6	10010.8	9748.0	9488.3	8597.9
27.5°	9831.5	9843.8	9964.4	10267.4	10672.4	10789.9	10738.9	10686.3	10500.8	10228.8	9196.1
30°	9817.6	9820.7	10020.1	10409.6	10978.5	11295.4	11372.7	11626.2	11579.8	11394.3	10197.8
32.5°	9562.5	9539.3	9828.4	10412.7	11218.1	11802.4	12159.5	12881.4	13155.0	13204.5	12201.2
35°	9043.1	9043.1	9475.9	10292.1	11391.2	12303.3	13056.1	14408.7	15331.5	15356.3	14105.7
37.5°	8610.3	8638.1	9123.5	10066.4	11471.6	12811.8	14084.0	16276.0	17249.9	17166.4	15696.3
40°	8179.0	8213.0	8710.7	9758.8	11423.7	13250.8	15081.1	18056.8	18866.8	18675.2	17052.0
42.5°	7701.3	7727.6	8194.4	9321.3	11258.3	13570.8	16152.4	19576.4	20221.0	19987.6	18288.7
45°	7223.7	7268.5	7689.0	8733.9	10935.2	13762.5	17070.6	20955.3	21477.7	21208.8	19414.1
47.5°	6520.3	6693.4	7183.5	8154.2	10349.3	13748.6	17885.2	22193.5	22637.1	22351.1	20428.1
50°	5090.4	5192.4	6273.0	7628.7	9576.4	13471.9	18528.3	23298.7	23679.0	23425.5	21453.0
52.5°	4623.6	4651.4	5000.8	6984.1	8720.0	12924.7	19004.4	24320.5	24691.5	24400.9	22380.5
55°	4384.0	4399.4	4571.0	5710.3	7993.5	11916.8	19220.8	25265.0	25544.8	25217.1	23165.8
57.5°	4057.8	4105.7	4345.3	4867.8	7249.9	10491.5	18941.0	26007.0	26286.8	25931.3	23917.1
60°	3816.7	3846.0	4051.6	4456.6	6388.9	8825.1	17973.4	26543.4	26920.6	26592.9	24614.2
62.5°	3578.6	3595.6	3768.7	4158.3	5648.5	7585.4	16166.3	26481.6	27245.2	27081.4	25232.6
63°	3529.1	3544.6	3717.7	4104.2	5538.7	7331.9	15786.0	26404.3	27245.2	27130.8	25309.9
65°	3309.6	3328.2	3499.8	3852.2	5079.6	6695.0	14088.7	25923.6	27147.9	27202.0	25419.6
67.5°	2983.5	3014.4	3156.6	3464.2	4390.2	5919.0	11570.5	25421.2	26449.1	26565.1	24812.1
70°	2598.5	2604.7	2776.3	3034.5	3700.7	5034.8	8919.4	23897.0	25084.2	25135.2	23391.5
72.5°	2188.9	2205.9	2360.5	2578.4	3070.0	4169.1	6376.5	21069.7	23176.6	23464.1	21012.5
75°	1910.6	1924.6	2054.4	2207.4	2549.1	3286.4	4264.9	15364.0	20432.8	20752.8	18175.9
77.5°	1599.9	1609.2	1745.2	1850.4	2071.4	2479.5	2944.8	8106.3	14073.2	15776.7	14200.0
80°	1139.3	1140.8	1276.9	1358.8	1501.0	1524.2	1872.0	4314.4	6192.6	8002.8	9384.7
82.5°	247.3	355.5	534.9	672.4	752.8	633.8	921.3	2363.6	3420.9	4084.1	5087.3
85°	106.7	146.9	282.9	310.7	207.1	228.8	374.1	1259.9	1955.5	2328.0	2618.6
87.5°	20.1	26.3	72.7	97.4	60.3	63.4	75.7	403.5	684.8	803.8	896.6
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°	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3	6806.3
2.5°	6750.6	6732.1	6670.3	6628.5	6602.2	6568.2	6524.9	6467.7	6450.7	6410.6	6443.0
5°	6755.3	6705.8	6576.0	6481.7	6396.6	6322.4	6235.9	6153.9	6123.0	6068.9	6090.6
7.5°	6776.9	6693.4	6492.5	6348.7	6222.0	6121.5	6000.9	5900.4	5864.9	5803.0	5813.9
10°	6834.1	6704.3	6427.6	6252.9	6078.2	5931.3	5790.7	5653.1	5591.3	5537.2	5563.4
12.5°	6934.6	6744.5	6398.2	6174.0	5942.2	5762.9	5557.3	5381.0	5294.5	5224.9	5248.1
15°	7086.1	6821.7	6364.2	6061.2	5781.4	5548.0	5296.0	5073.4	4976.0	4921.9	4948.2
17.5°	7240.7	6934.6	6344.1	5923.6	5588.2	5285.2	5042.5	4832.3	4654.5	4614.3	4629.8
20°	7423.1	7050.5	6359.5	5778.3	5360.9	5002.3	4714.8	4574.1	4343.8	4263.4	4268.0
22.5°	7664.2	7231.4	6373.5	5636.1	5090.4	4690.0	4354.6	4215.5	3994.4	3852.2	3858.4
25°	8010.5	7455.5	6405.9	5504.7	4824.5	4346.9	3958.9	3727.0	3589.4	3408.6	3410.1
27.5°	8485.1	7763.2	6470.8	5381.0	4541.6	3952.7	3478.1	3218.4	3097.8	2978.8	2963.4
30°	9295.1	8271.7	6566.7	5245.0	4206.2	3476.6	2971.1	2743.8	2641.8	2544.4	2533.6
32.5°	11004.8	9506.8	6699.6	5073.4	3844.5	2935.5	2522.8	2343.5	2199.7	2103.9	2117.8
35°	12759.3	11054.2	7262.3	4869.4	3436.4	2462.5	2185.8	1963.2	1779.2	1705.0	1709.7
37.5°	14261.8	12456.3	8107.9	4648.3	2985.0	2158.0	1847.3	1632.4	1485.5	1448.4	1494.8
40°	15512.4	13607.9	8786.5	4414.9	2510.4	1901.4	1505.6	1388.2	1293.9	1283.0	1324.8
42.5°	16695.0	14648.3	9356.9	4145.9	2068.3	1570.6	1250.6	1278.4	1264.5	1262.9	1269.1
45°	17769.3	15612.9	9675.3	3745.5	1756.1	1286.1	1181.0	1286.1	1309.3	1306.2	1289.2
47.5°	18747.8	16494.0	9891.8	3165.9	1487.1	1205.7	1219.7	1290.8	1334.1	1341.8	1323.2
50°	19763.4	17355.0	9925.8	2464.1	1380.4	1269.1	1253.7	1244.4	1323.2	1321.7	1323.2
52.5°	20670.8	18093.9	9554.8	1915.3	1436.1	1335.6	1281.5	1227.4	1272.2	1273.8	1242.8
55°	21354.1	18699.9	8919.4	1678.8	1482.5	1391.2	1361.9	1253.7	1225.8	1207.3	1218.1
57.5°	22059.0	19240.9	8056.9	1572.1	1496.4	1403.6	1433.0	1259.9	1218.1	1133.1	1126.9
60°	22737.6	19678.4	7035.1	1501.0	1479.4	1397.4	1388.2	1307.8	1227.4	1100.6	1057.3
62.5°	23150.3	19774.2	5990.1	1431.4	1446.9	1388.2	1338.7	1343.3	1287.7	1218.1	1208.8
63°	23198.3	19741.8	5790.7	1414.4	1439.2	1386.6	1338.7	1346.4	1287.7	1245.9	1247.5
65°	23138.0	19364.6	5008.5	1341.8	1411.3	1361.9	1318.6	1279.9	1184.1	1210.4	1241.3
67.5°	22460.9	18131.0	3850.7	1224.3	1349.5	1321.7	1258.3	1162.5	1075.9	1058.9	1077.4
70°	20632.2	16110.6	2728.4	1043.4	1238.2	1270.7	1242.8	1099.1	1012.5	997.1	1034.2
72.5°	18093.9	13988.2	1873.5	834.7	1037.3	1182.6	1174.8	1058.9	981.6	936.8	955.3
75°	15231.1	11283.0	1309.3	703.4	799.2	1065.1	1114.5	1024.9	966.1	924.4	918.2
77.5°	11726.7	8522.2	1029.5	601.3	660.1	862.6	1024.9	1017.2	1089.8	1286.1	1242.8
80°	7988.8	5667.0	742.0	451.4	525.6	604.4	882.7	1049.6	1378.9	810.0	794.6
82.5°	4643.7	3329.7	463.7	299.9	313.8	411.2	553.4	1108.4	922.9	364.8	460.7
85°	2243.0	1450.0	231.9	207.1	143.8	154.6	256.6	1032.6	653.9	162.3	32.5
87.5°	715.7	352.4	24.7	18.5	21.6	30.9	122.1	630.7	384.9	139.1	20.1
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)