

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: P622833

Luminaire Tested: **PRV-M-PA6D-730-U-T4W-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6D-730-U-T4W-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44589 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

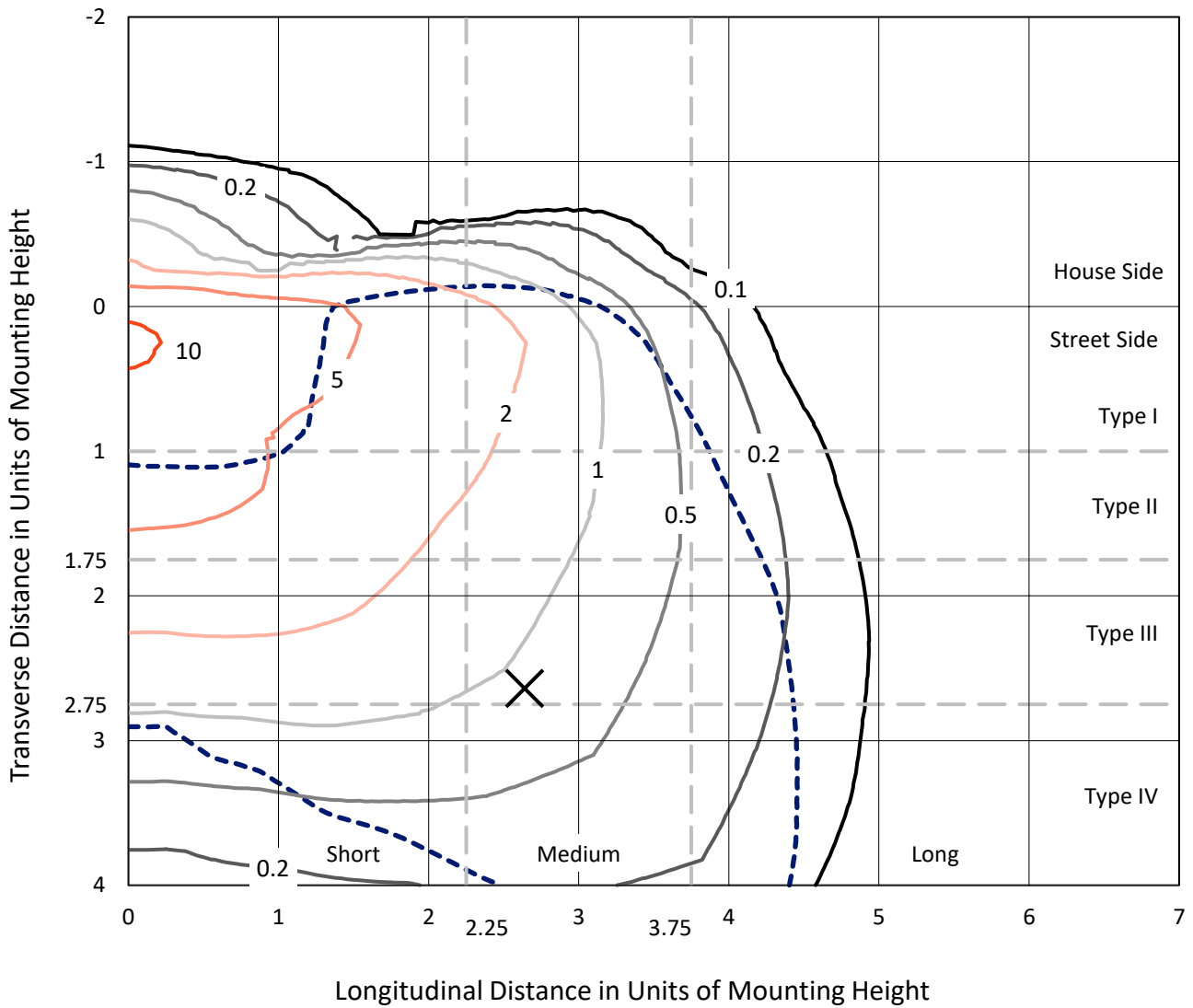
Input Watts (W): 544
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

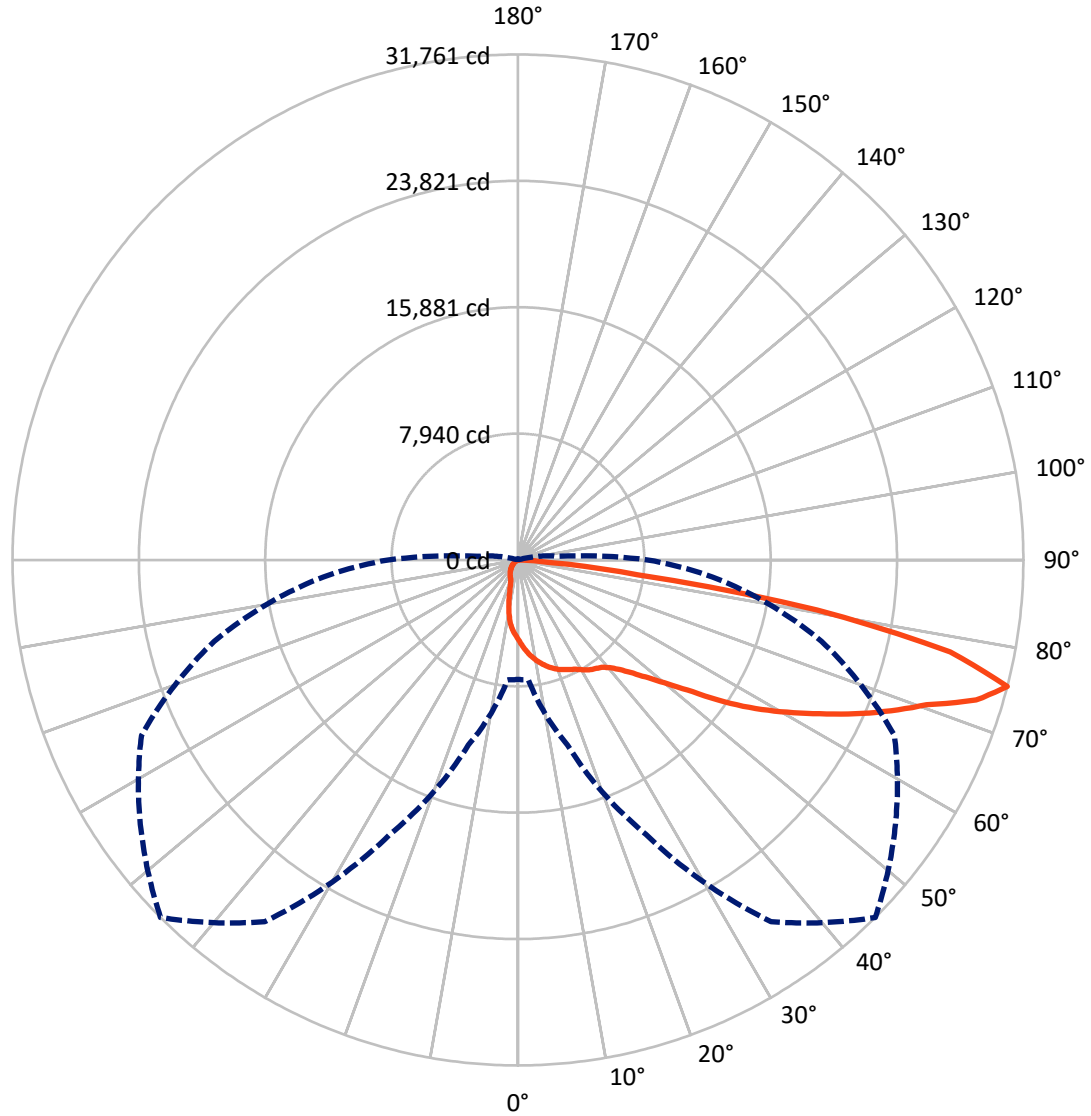
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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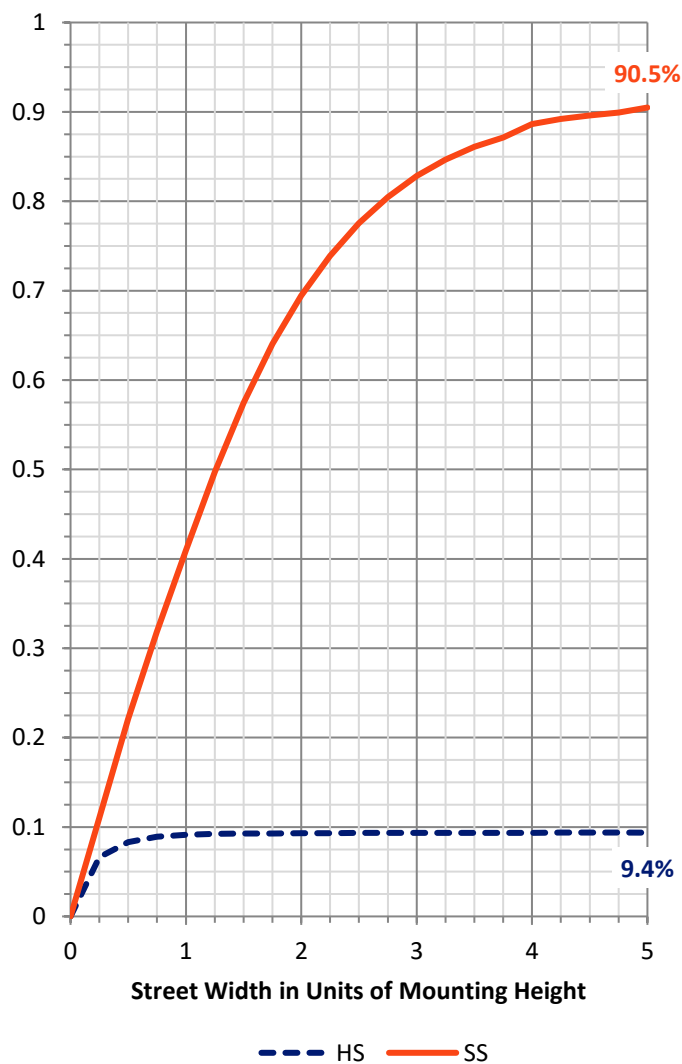
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4213.7	0.0	4213.7
	% Fixture	9.5	0.0	9.5
Street Side	Lumens	40375.3	0.0	40375.3
	% Fixture	90.5	0.0	90.5
Total	Lumens	44589.0	0.0	44589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.7	1.1
10°-20°	1379.2	3.1
20°-30°	2247.4	5.0
30°-40°	3171.7	7.1
40°-50°	5067.4	11.4
50°-60°	8593.1	19.3
60°-70°	12456.6	27.9
70°-80°	10139.4	22.7
80°-90°	1054.4	2.4
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°	44589.0	100.0
0°-180°	44589.0	100.0

Coefficient of Utilization



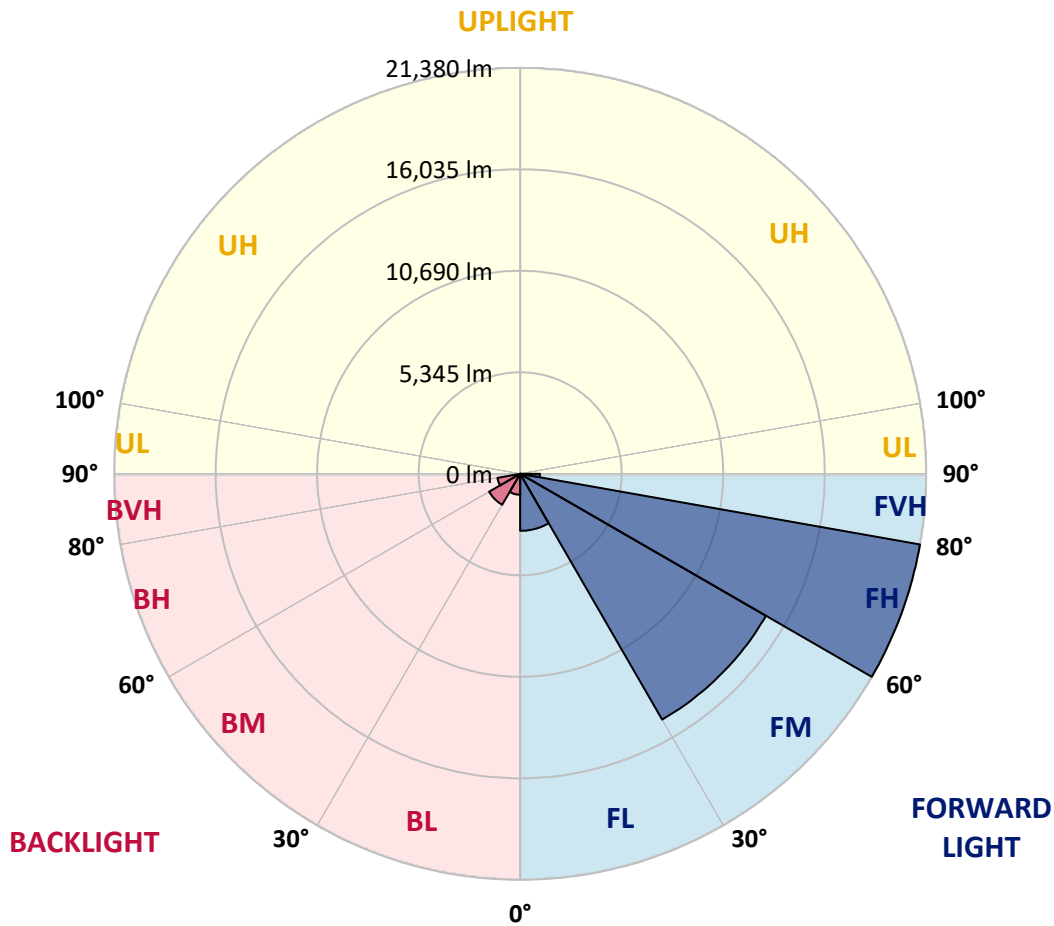
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.8	6.7			
FM (30°-60°)	14946.5	33.5			
FH (60°-80°)	21380.4	47.9			G5
FVH (80°-90°)	1043.6	2.3			G5
BL (0°-30°)	1101.5	2.5	B3/2500		
BM (30°-60°)	1885.7	4.2	B2/2500		
BH (60°-80°)	1215.6	2.7	B3/2500		G3/2500
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9
2.5°	5581.6	5584.6	5562.3	5511.8	5453.8	5406.3	5320.1	5235.4	5144.7	5057.0	5018.4
5°	6143.3	6132.9	6089.9	5997.7	5886.3	5779.3	5603.9	5441.9	5256.2	5076.4	4994.6
7.5°	6665.0	6638.2	6569.8	6437.6	6293.4	6116.6	5890.7	5654.4	5397.3	5164.0	5043.7
10°	7118.2	7094.4	6994.9	6822.5	6627.8	6419.8	6168.6	5919.0	5642.5	5340.9	5190.8
12.5°	7512.0	7467.4	7347.1	7128.6	6898.3	6691.7	6436.1	6208.7	5883.3	5560.8	5375.1
15°	7847.9	7798.8	7660.6	7391.6	7122.7	6941.4	6711.0	6485.1	6174.6	5789.7	5575.7
17.5°	8078.2	8032.1	7882.0	7580.4	7306.9	7153.9	6981.5	6758.6	6446.5	6028.9	5789.7
20°	8154.0	8103.5	7978.6	7671.0	7425.8	7344.1	7197.0	7008.2	6703.6	6274.1	6017.0
22.5°	8081.2	8032.1	7945.9	7663.6	7492.7	7486.7	7388.7	7237.1	6945.8	6513.4	6235.5
25°	7978.6	7932.6	7861.2	7620.5	7535.8	7616.0	7568.5	7442.2	7201.4	6769.0	6497.0
27.5°	7938.5	7888.0	7824.1	7626.4	7622.0	7778.0	7779.5	7687.4	7461.5	7035.0	6751.1
30°	8005.4	7948.9	7877.6	7709.7	7764.6	8002.4	8070.8	7966.7	7705.2	7281.7	7011.2
32.5°	8173.3	8072.2	7984.6	7833.0	7923.6	8232.7	8339.7	8176.3	7898.4	7534.3	7296.5
35°	8461.6	8305.6	8159.9	7995.0	8066.3	8379.9	8537.4	8412.6	8133.2	7840.4	7642.8
37.5°	9081.3	8885.1	8645.9	8317.4	8272.9	8558.2	8801.9	8785.6	8498.7	8243.1	8090.1
40°	10292.4	10045.7	9699.5	8990.6	8629.5	8883.6	9218.0	9302.7	9014.4	8793.0	8684.5
42.5°	12279.3	12029.6	11407.0	10068.0	9192.7	9408.2	9784.2	10008.6	9712.9	9568.7	9472.1
45°	14364.2	14172.5	13535.0	11664.0	10127.5	10149.8	10549.5	10967.1	10781.3	10620.8	10485.6
47.5°	15945.4	15759.6	15301.9	13595.9	11564.5	11071.1	11491.7	12124.7	12038.5	11900.3	11756.2
50°	17073.3	16874.1	16581.4	15416.3	13426.5	12230.2	12604.7	13466.6	13680.6	13598.9	13329.9
52.5°	18129.9	17929.2	17678.1	17001.9	15526.3	13734.1	13928.8	15101.3	15469.8	15511.4	14924.4
55°	19006.6	18849.1	18954.6	18525.2	17707.8	15747.7	15474.3	16798.4	17372.0	17670.7	16746.3
57.5°	19558.0	19385.6	19962.2	20199.9	19914.6	17615.7	17128.3	18663.4	19256.3	20002.3	18446.4
60°	20104.8	19907.2	20703.7	21689.0	21995.1	19424.2	18954.6	20541.7	21154.0	22678.7	20161.3
62.5°	20419.9	20202.9	21301.1	22822.8	23668.4	21272.9	20904.3	22449.8	23103.7	25475.4	21616.1
65°	19335.1	19283.0	21479.4	23567.3	25047.4	23305.8	22987.8	24353.5	25053.4	28034.4	22787.2
67.5°	17996.1	17985.7	20920.7	24034.0	26176.8	25280.8	24970.2	26304.6	26870.8	29554.6	22992.2
70°	17015.3	17018.3	19916.1	24650.7	27472.7	27246.8	26918.4	28131.0	28012.1	28441.6	21142.1
72.5°	14096.7	14237.9	17325.9	23738.2	29042.0	30107.5	28679.4	28966.2	26261.6	22030.8	15573.9
75°	7504.6	7565.5	12034.1	19018.5	27741.7	31761.4	28963.2	26105.5	19758.6	12271.8	8182.2
77.5°	2526.3	2472.8	4192.2	10262.7	21162.9	27769.9	23739.7	18361.7	10571.8	4046.5	2643.7
80°	798.0	824.8	1356.8	3263.4	11169.2	19054.2	14289.9	9094.7	3162.3	905.0	521.6
82.5°	359.6	389.3	624.1	1432.6	4388.3	7568.5	6914.6	3140.0	1084.8	289.8	194.7
85°	135.2	144.1	306.1	815.8	1781.8	2077.5	2400.0	1150.2	697.0	114.4	77.3
87.5°	32.7	37.2	126.3	264.5	416.1	282.4	395.3	425.0	390.8	40.1	31.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9	5019.9
2.5°	4981.3	4899.5	4843.1	4761.3	4687.0	4660.3	4620.1	4608.3	4609.7	4574.1
5°	4921.8	4771.7	4648.4	4510.2	4386.8	4291.7	4190.7	4134.2	4108.9	4095.6
7.5°	4935.2	4715.3	4499.8	4241.2	3964.8	3735.9	3529.4	3410.5	3346.6	3334.7
10°	5045.2	4740.5	4380.9	3890.5	3386.7	3004.8	2710.6	2548.6	2452.0	2438.6
12.5°	5198.2	4785.1	4189.2	3431.3	2726.9	2212.7	1890.3	1784.8	1755.0	1752.1
15°	5367.6	4807.4	3908.3	2884.4	2055.2	1616.8	1469.7	1483.1	1500.9	1502.4
17.5°	5551.9	4788.1	3535.3	2293.0	1566.3	1367.2	1325.6	1364.2	1414.7	1416.2
20°	5749.5	4707.8	3094.0	1763.9	1341.9	1269.1	1266.1	1295.8	1349.3	1355.3
22.5°	5948.7	4557.7	2551.6	1426.6	1231.9	1215.6	1206.7	1226.0	1279.5	1285.4
25°	6152.3	4327.4	2018.1	1231.9	1165.1	1157.6	1144.3	1156.2	1200.7	1208.2
27.5°	6364.8	4059.9	1591.6	1108.6	1089.3	1086.3	1081.8	1077.4	1117.5	1126.4
30°	6563.9	3678.0	1264.6	1020.9	998.6	1001.6	997.1	997.1	1029.8	1037.3
32.5°	6773.4	3275.3	1061.0	942.2	908.0	903.5	908.0	912.4	933.2	940.7
35°	7000.8	2808.6	945.1	869.3	823.3	802.5	804.0	811.4	826.2	833.7
37.5°	7262.3	2362.8	867.9	802.5	746.0	711.8	694.0	694.0	710.3	710.3
40°	7580.4	1891.7	811.4	740.1	674.7	624.1	590.0	564.7	557.3	569.2
42.5°	7965.3	1505.4	763.8	691.0	607.8	545.4	483.0	431.0	417.6	422.0
45°	8448.2	1178.4	719.3	640.5	539.4	459.2	376.0	307.6	289.8	294.2
47.5°	9027.8	965.9	673.2	585.5	468.1	373.0	264.5	208.0	206.6	211.0
50°	9706.9	824.8	618.2	532.0	399.7	280.9	178.3	145.6	159.0	166.4
52.5°	10458.9	744.5	564.7	480.0	328.4	196.2	126.3	115.9	133.7	139.7
55°	11216.7	689.5	512.7	420.6	255.6	139.7	99.6	98.1	117.4	121.9
57.5°	11863.2	625.6	462.2	353.7	193.2	111.5	87.7	87.7	107.0	111.5
60°	12371.4	540.9	402.7	270.5	148.6	98.1	77.3	77.3	98.1	102.5
62.5°	12757.8	417.6	313.6	200.6	126.3	92.1	69.8	68.4	89.2	95.1
65°	12851.4	289.8	228.9	153.1	114.4	87.7	62.4	59.4	80.2	84.7
67.5°	12424.9	205.1	170.9	123.3	107.0	84.7	56.5	50.5	69.8	74.3
70°	10793.2	159.0	132.3	101.1	102.5	83.2	52.0	43.1	56.5	59.4
72.5°	7281.7	130.8	107.0	86.2	96.6	78.8	46.1	34.2	44.6	46.1
75°	2585.7	105.5	84.7	69.8	83.2	69.8	38.6	26.7	32.7	34.2
77.5°	465.1	77.3	60.9	50.5	63.9	55.0	31.2	19.3	23.8	23.8
80°	117.4	44.6	35.7	28.2	43.1	38.6	23.8	14.9	16.3	16.3
82.5°	49.0	23.8	23.8	19.3	23.8	23.8	14.9	8.9	10.4	10.4
85°	28.2	19.3	19.3	16.3	16.3	14.9	10.4	5.9	3.0	4.5
87.5°	19.3	17.8	16.3	14.9	13.4	8.9	5.9	3.0	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

(END OF REPORT)