

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: P622539

Luminaire Tested: **PRV-M-C275-D-U-T3-BZ-7030-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C275-D-U-T3-BZ-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70815 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

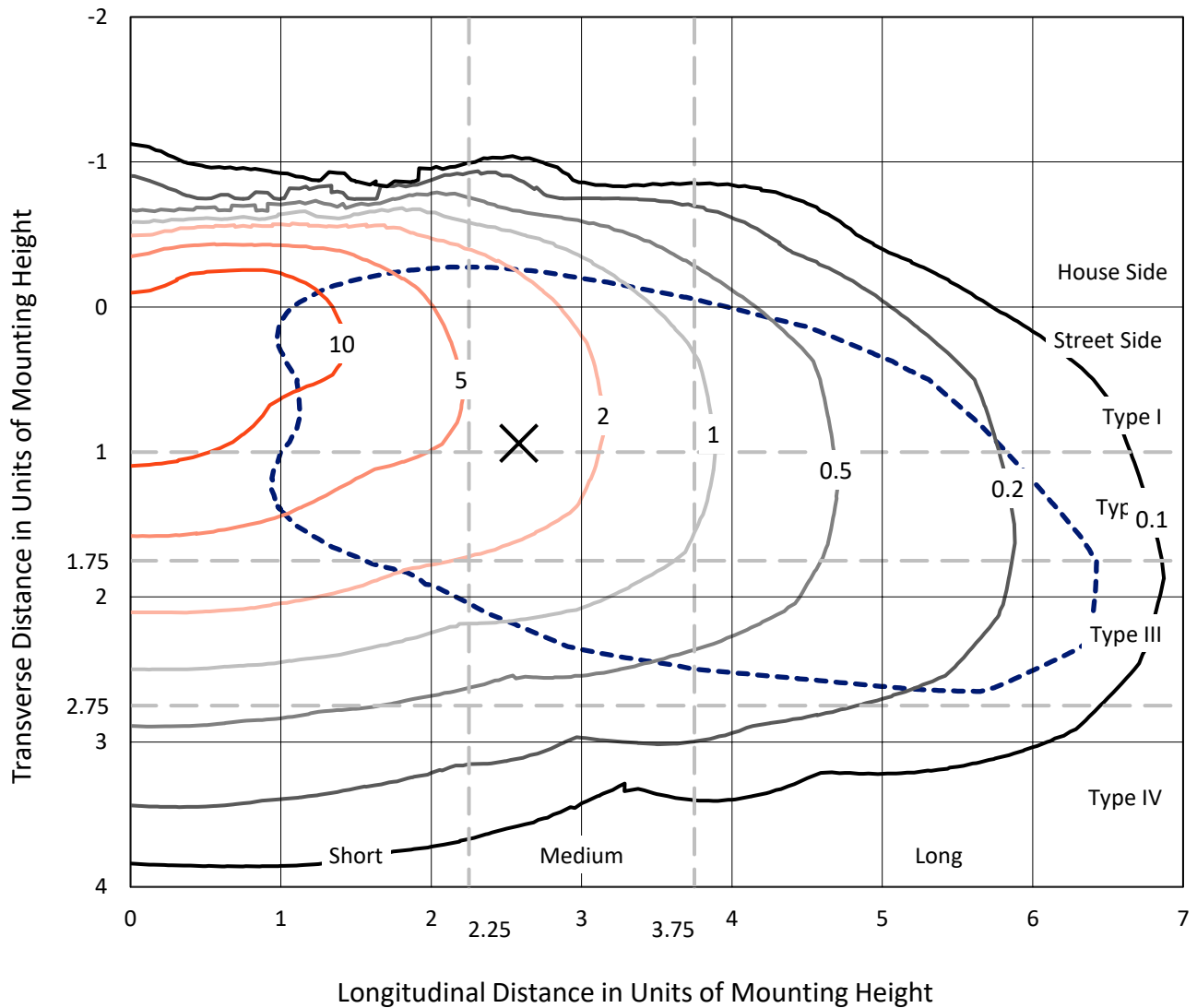
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

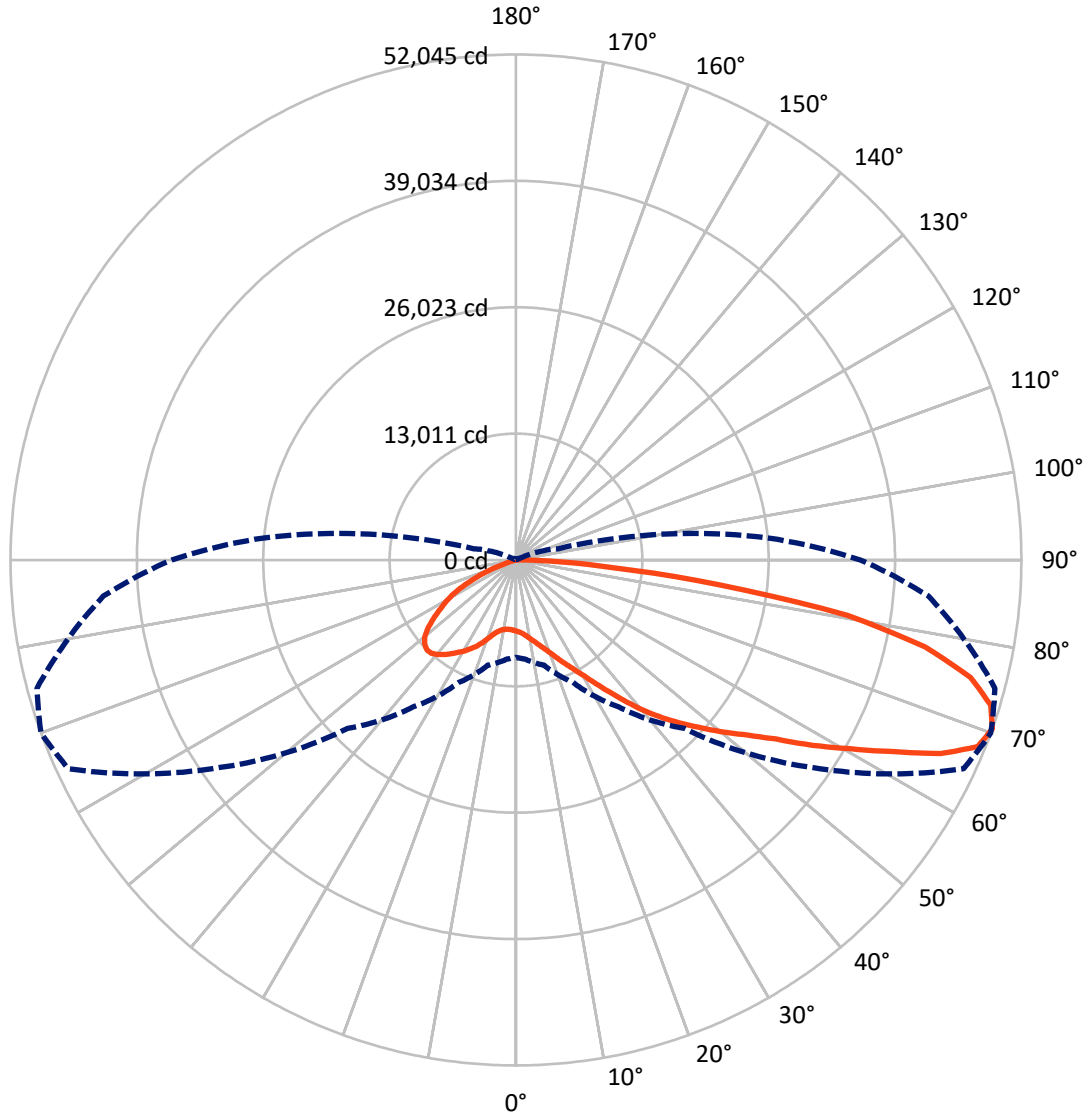
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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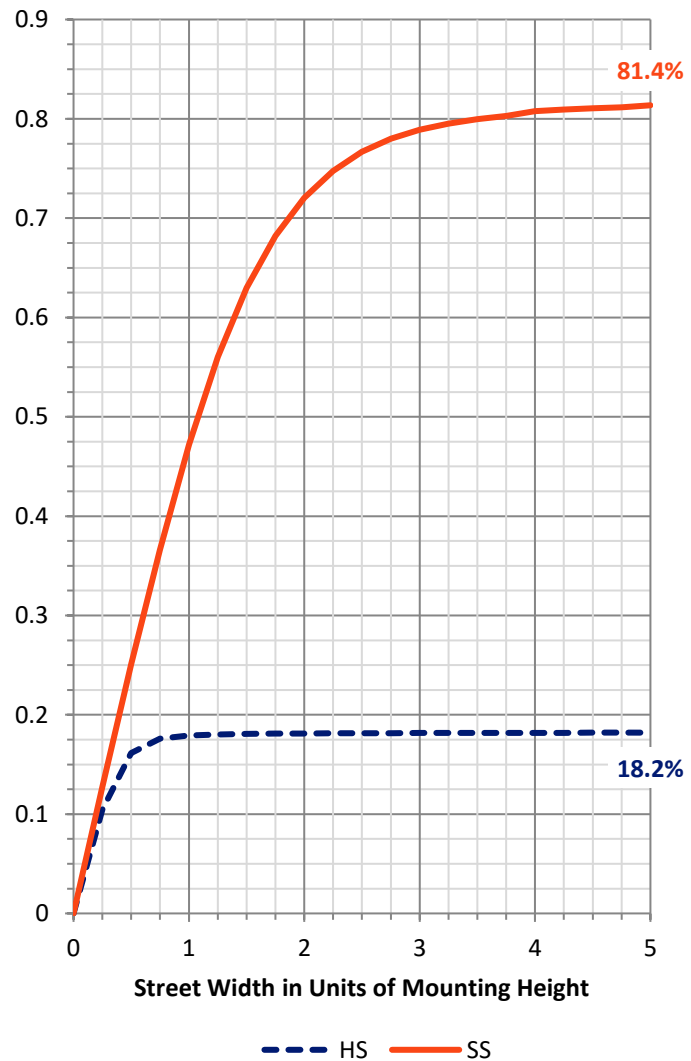
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13035.7	0.0	13035.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	57779.3	0.0	57779.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	70815.0	0.0	70815.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.1	1.0
10°-20°	2194.9	3.1
20°-30°	4043.9	5.7
30°-40°	6753.8	9.5
40°-50°	10537.0	14.9
50°-60°	14452.0	20.4
60°-70°	17152.3	24.2
70°-80°	12643.4	17.9
80°-90°	2333.4	3.3
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°	70815.0	100.0
0°-180°	70815.0	100.0



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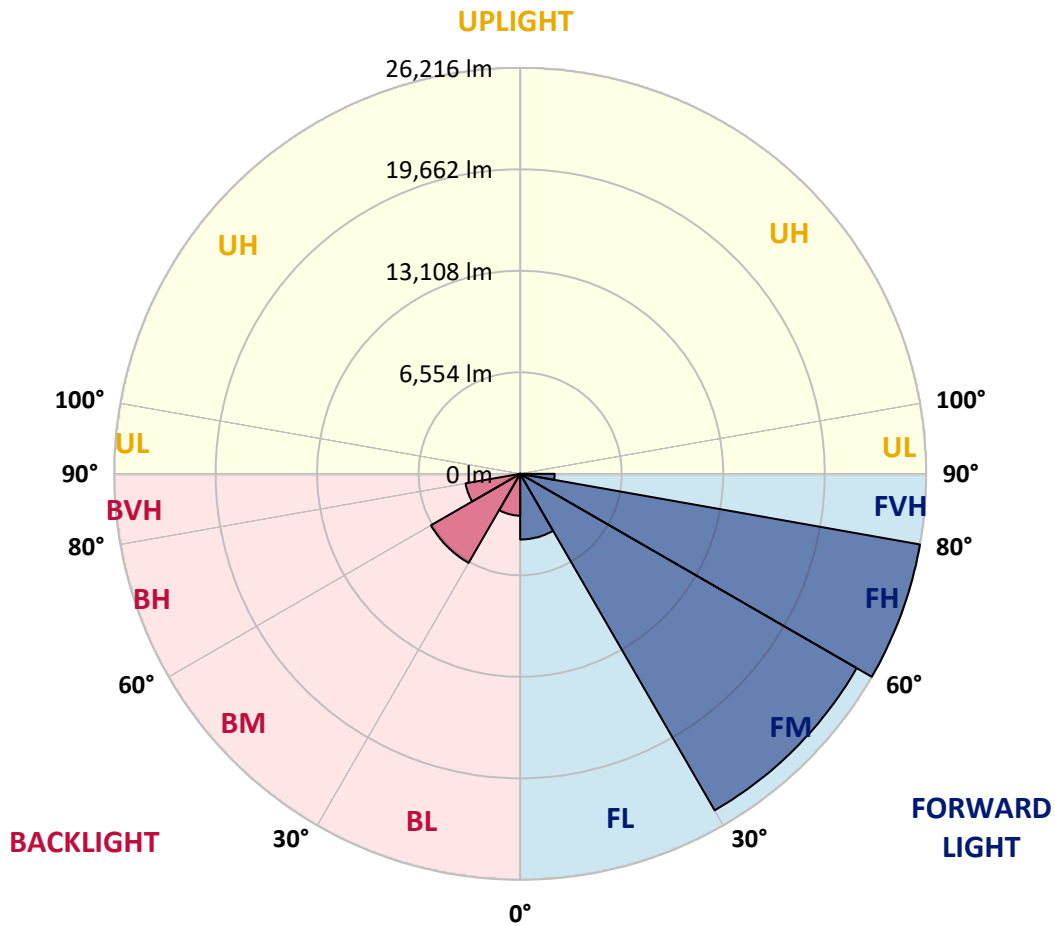
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4244.0	6.0			
FM (30°-60°)	25093.9	35.4			
FH (60°-80°)	26215.7	37.0			G5
FVH (80°-90°)	2225.6	3.1			G5
BL (0°-30°)	2699.0	3.8	B4/5000		
BM (30°-60°)	6648.9	9.4	B4/8500		
BH (60°-80°)	3580.0	5.1	B4/5000		G4/5000
BVH (80°-90°)	107.8	0.2			G2/225
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°	70°	75°	85°
0°	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7
2.5°	7643.4	7655.8	7685.2	7627.9	7627.9	7533.6	7527.4	7496.5	7442.3	7422.2	7394.4
5°	7983.7	8006.9	8010.0	7966.7	7934.2	7838.3	7778.0	7716.1	7638.8	7598.6	7511.9
7.5°	8246.7	8263.7	8299.3	8271.5	8252.9	8127.6	8095.1	8014.7	7907.9	7841.4	7702.2
10°	8427.7	8483.4	8512.8	8506.6	8545.3	8454.0	8443.2	8355.0	8248.3	8155.4	7986.8
12.5°	8566.9	8614.9	8676.8	8720.1	8792.8	8791.2	8788.1	8735.6	8641.2	8519.0	8324.1
15°	8670.6	8729.4	8831.5	8933.6	9058.9	9096.0	9202.7	9188.8	9094.4	8987.7	8741.7
17.5°	8907.3	8959.9	9041.8	9164.1	9334.2	9442.5	9620.4	9676.1	9631.2	9521.4	9247.6
20°	9255.3	9267.7	9348.1	9459.5	9648.2	9869.5	10185.0	10325.8	10233.0	10186.6	9926.7
22.5°	9666.8	9703.9	9714.8	9816.9	10002.5	10328.9	10762.0	10995.6	11011.1	10902.8	10712.5
25°	10137.1	10149.5	10127.8	10211.3	10475.9	10856.4	11370.0	11742.8	11838.7	11810.9	11755.2
27.5°	10633.6	10709.4	10711.0	10737.3	10981.7	11396.3	12052.2	12646.2	12771.5	12831.8	13079.3
30°	11861.9	11892.8	11766.0	11538.6	11611.3	12064.6	12831.8	13611.5	13831.2	14092.6	14813.5
32.5°	13424.3	13367.1	13181.4	12770.0	12468.3	12825.7	13654.8	14666.5	15203.3	15792.7	16539.8
35°	14941.9	14901.6	14754.7	14343.2	13823.4	13654.8	14530.4	15894.8	16776.5	17938.3	18563.2
37.5°	16363.5	16403.7	16293.9	15888.6	15294.6	14884.6	15501.9	17183.4	18561.7	20070.0	20597.5
40°	17754.2	17788.2	17751.1	17392.2	17048.8	16465.6	16624.9	18560.1	20430.4	22107.3	22546.6
42.5°	18851.0	18977.8	19115.5	18721.0	18558.6	18207.4	17803.7	19828.6	22252.7	24050.2	24372.0
45°	19774.5	19755.9	19912.2	19926.1	19992.6	19831.7	19315.0	21242.5	24023.9	25905.0	25980.8
47.5°	20442.8	20373.2	20524.8	20957.9	21374.0	21332.3	21066.2	22688.9	25849.3	27671.6	27574.1
50°	20793.9	20798.6	21152.8	21862.9	22692.0	22916.3	22840.5	24764.9	27892.8	29572.8	29209.3
52.5°	21069.3	21186.8	21765.4	22685.8	24030.1	24528.2	24650.4	27337.5	29944.0	31444.6	30754.6
55°	21193.0	21395.7	22050.0	23214.9	24992.3	26017.9	26499.0	30035.3	32539.8	33775.8	32408.3
57.5°	20541.8	20781.5	21774.7	23351.0	25652.8	27154.9	28411.0	33232.8	35998.8	36339.1	34349.7
60°	19011.8	19169.6	20756.8	23069.5	25804.4	28199.1	30610.8	37128.0	39445.3	39363.3	36354.6
62.5°	17511.3	17607.2	19059.8	22003.6	25380.6	28709.6	32852.3	41462.5	43421.0	42568.6	38319.2
65°	15460.1	15611.7	17245.2	20066.9	24045.6	28474.5	35233.0	46033.7	48058.7	47229.5	40458.6
67.5°	13011.3	13169.1	14547.4	17254.5	21872.1	27247.7	36558.7	49502.0	51271.7	50232.1	41943.6
70°	10038.1	10228.3	11215.3	13913.1	18485.9	24539.1	37250.2	50854.0	52045.1	51056.6	42628.9
72.5°	6978.2	7160.8	7765.6	9482.7	14094.1	20608.3	36620.6	50595.7	51112.3	50199.6	41255.2
75°	4484.6	4746.0	5233.3	6337.8	8308.6	14898.5	32805.9	48055.6	48351.0	46992.8	37709.7
77.5°	682.2	778.1	2854.1	3714.2	5239.5	7146.8	23256.6	42528.4	43051.2	41491.9	32744.0
80°	481.1	498.1	1231.4	2391.6	3163.5	3994.2	10785.2	30912.4	34643.6	32679.0	23078.7
82.5°	343.4	371.3	584.7	1564.0	1765.1	1531.5	3511.5	17525.2	21027.5	20920.8	12304.3
85°	216.6	239.8	355.8	538.3	952.9	900.3	1126.2	7211.8	9818.4	9854.0	4794.0
87.5°	114.5	125.3	207.3	317.1	448.6	501.2	550.7	2057.4	3462.0	3296.5	1065.8
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°	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7	7324.7
2.5°	7346.4	7323.2	7275.2	7193.3	7112.8	7057.1	7044.7	6964.3	6955.0	6962.8	6959.7
5°	7439.2	7383.5	7259.8	7095.8	6934.9	6803.4	6710.6	6576.0	6515.7	6494.0	6520.3
7.5°	7606.3	7510.4	7309.3	7057.1	6798.8	6572.9	6391.9	6215.6	6129.0	6064.0	6014.5
10°	7847.6	7716.1	7420.7	7069.5	6713.7	6404.3	6116.6	5866.0	5692.7	5595.3	5565.9
12.5°	8170.9	7991.5	7601.6	7156.1	6692.0	6265.1	5872.2	5519.5	5285.9	5152.8	5128.1
15°	8539.1	8362.7	7898.7	7354.1	6786.4	6238.8	5734.5	5284.3	4905.3	4715.1	4660.9
17.5°	9027.9	8831.5	8330.3	7699.1	7007.6	6306.9	5627.8	4990.4	4459.8	4203.0	4169.0
20°	9713.2	9504.4	8945.9	8157.0	7298.4	6374.9	5474.6	4650.1	3958.6	3613.6	3536.3
22.5°	10526.9	10341.3	9691.6	8636.5	7528.9	6356.4	5233.3	4152.0	3293.4	2899.0	2830.9
25°	11642.2	11462.8	10460.4	9034.1	7645.0	6221.8	4824.9	3474.4	2487.5	2079.1	2052.8
27.5°	12998.9	12604.4	11141.0	9355.9	7601.6	5872.2	4156.6	2526.1	1672.2	1350.5	1311.8
30°	14443.7	13818.8	11902.1	9615.8	7479.4	5316.8	3169.7	1664.5	1048.8	883.3	849.3
32.5°	16134.5	15293.0	12624.5	9792.1	7199.4	4540.3	2158.0	1022.5	663.6	564.6	558.4
35°	17916.6	16844.6	13517.1	9886.5	6693.6	3506.9	1234.5	597.1	414.6	403.8	403.8
37.5°	19816.3	18526.1	14485.5	9900.4	5926.3	2304.9	714.7	357.3	318.7	366.6	385.2
40°	21555.0	20048.3	15466.3	9770.5	4950.2	1318.0	394.5	272.3	286.2	338.8	355.8
42.5°	23219.5	21521.0	16428.5	9462.6	3550.2	724.0	278.4	238.2	253.7	281.5	287.7
45°	24710.8	22845.2	17157.1	8896.4	2201.3	406.8	252.2	208.8	210.4	230.5	233.6
47.5°	26154.1	24079.6	17618.1	8027.1	1138.5	335.7	230.5	188.7	184.1	204.2	210.4
50°	27524.6	25230.5	17890.3	6839.0	586.3	310.9	218.1	173.3	174.8	213.5	216.6
52.5°	28851.9	26328.9	17958.4	5145.1	405.3	280.0	199.6	162.4	168.6	221.2	228.9
55°	30279.7	27479.8	17806.8	3086.1	382.1	256.8	181.0	147.0	159.3	179.4	182.5
57.5°	31586.9	28621.4	17243.7	1308.7	362.0	235.1	164.0	134.6	128.4	145.4	151.6
60°	33031.7	29707.4	15901.0	617.2	337.2	210.4	147.0	119.1	109.8	120.7	126.8
62.5°	35050.5	30522.6	13611.5	464.1	317.1	194.9	131.5	108.3	99.0	105.2	111.4
65°	36144.2	30601.5	10630.5	405.3	301.7	182.5	120.7	102.1	88.2	91.3	97.5
67.5°	36564.9	29046.8	7708.4	352.7	280.0	170.2	111.4	95.9	82.0	78.9	82.0
70°	35469.7	26052.0	4479.9	324.9	253.7	157.8	105.2	92.8	75.8	66.5	66.5
72.5°	32276.8	21943.3	1856.3	289.3	225.9	140.8	99.0	95.9	72.7	52.6	52.6
75°	27800.0	17098.3	553.8	239.8	193.4	128.4	99.0	99.0	71.2	40.2	40.2
77.5°	22074.8	10659.9	329.5	187.2	153.1	114.5	97.5	94.4	54.1	30.9	29.4
80°	12547.2	3782.3	239.8	139.2	117.6	94.4	86.6	77.3	40.2	26.3	26.3
82.5°	5013.6	857.0	170.2	99.0	95.9	72.7	57.2	44.9	32.5	23.2	23.2
85°	1314.9	270.7	102.1	65.0	58.8	54.1	20.1	18.6	26.3	21.7	21.7
87.5°	216.6	108.3	54.1	49.5	37.1	26.3	9.3	9.3	15.5	18.6	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)