

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: P622555

Luminaire Tested: **PRV-M-C275-D-U-T4-BZ-7050-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-6)
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-T4-BZ-7050-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS 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: 74165 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

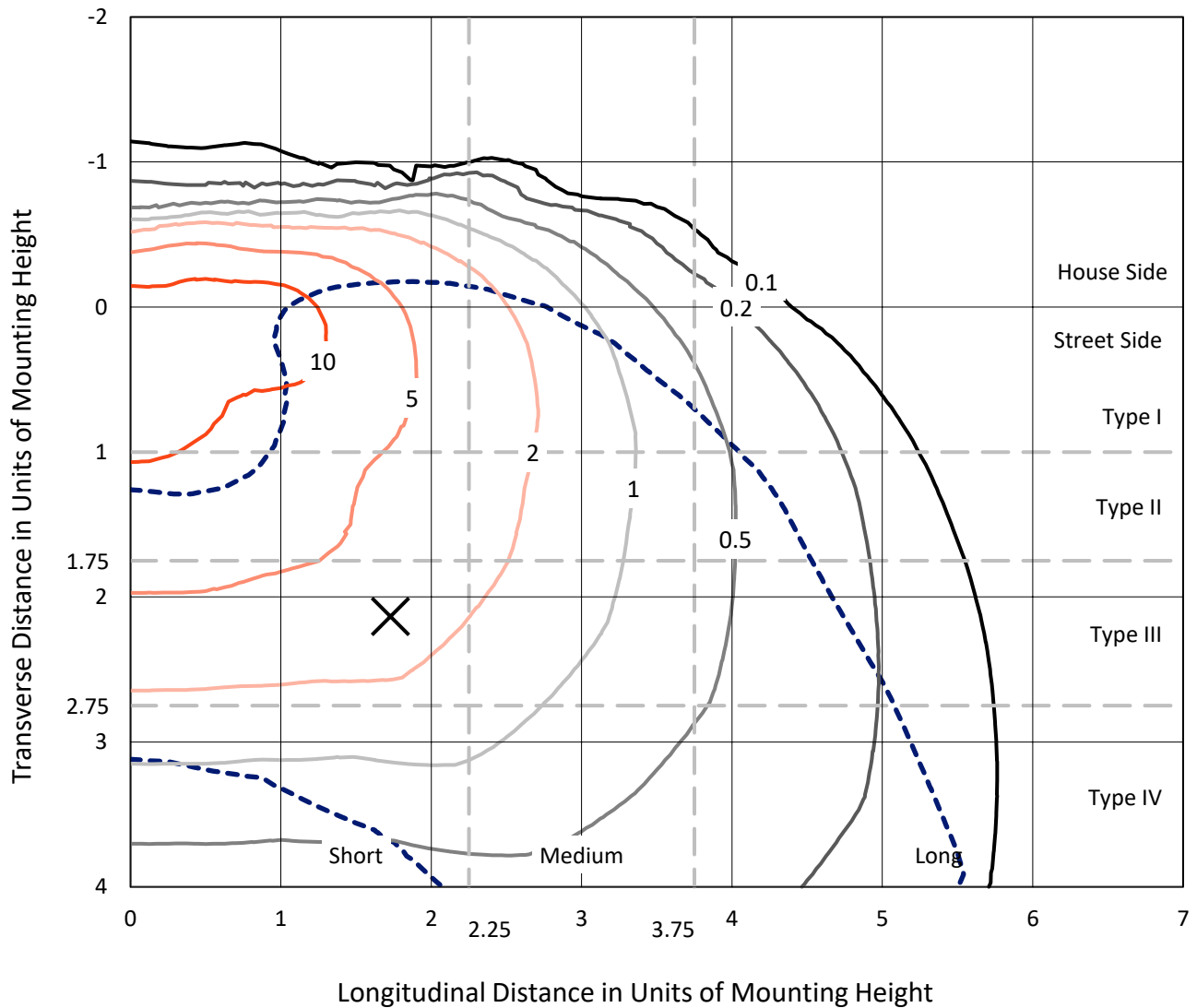
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

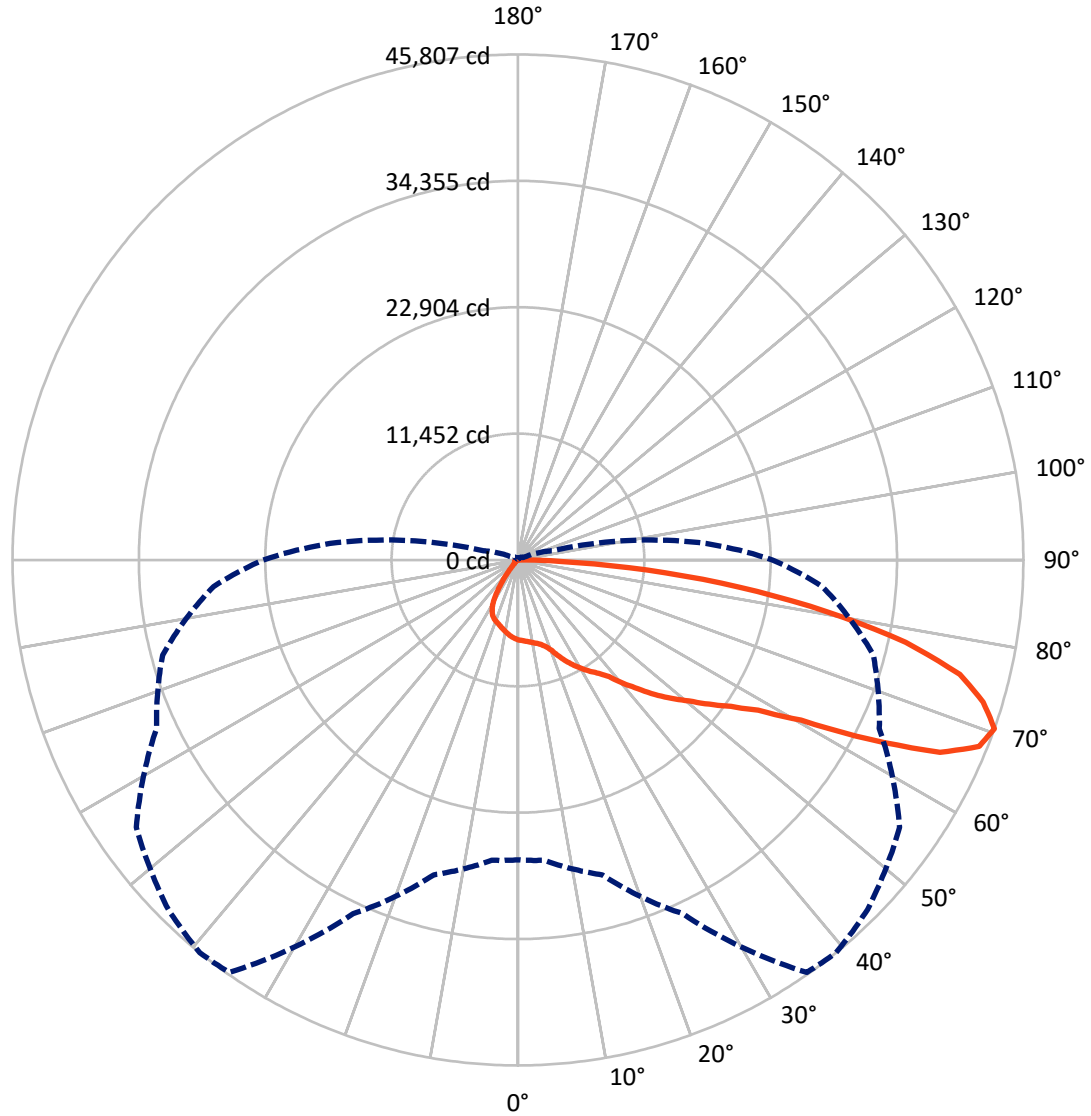
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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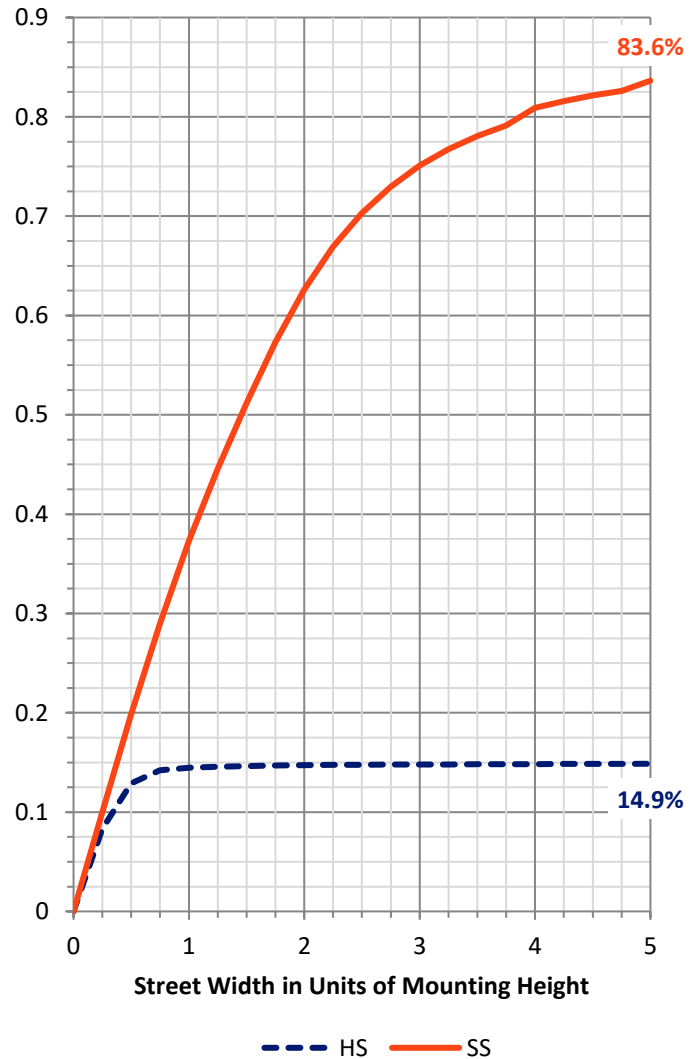
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11152.0	0.0	11152.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	63013.0	0.0	63013.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	74165.0	0.0	74165.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.6	0.9
10°-20°	2078.4	2.8
20°-30°	3833.0	5.2
30°-40°	6062.4	8.2
40°-50°	9503.7	12.8
50°-60°	14031.0	18.9
60°-70°	19239.8	25.9
70°-80°	15394.3	20.8
80°-90°	3333.8	4.5
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°	74165.0	100.0
0°-180°	74165.0	100.0



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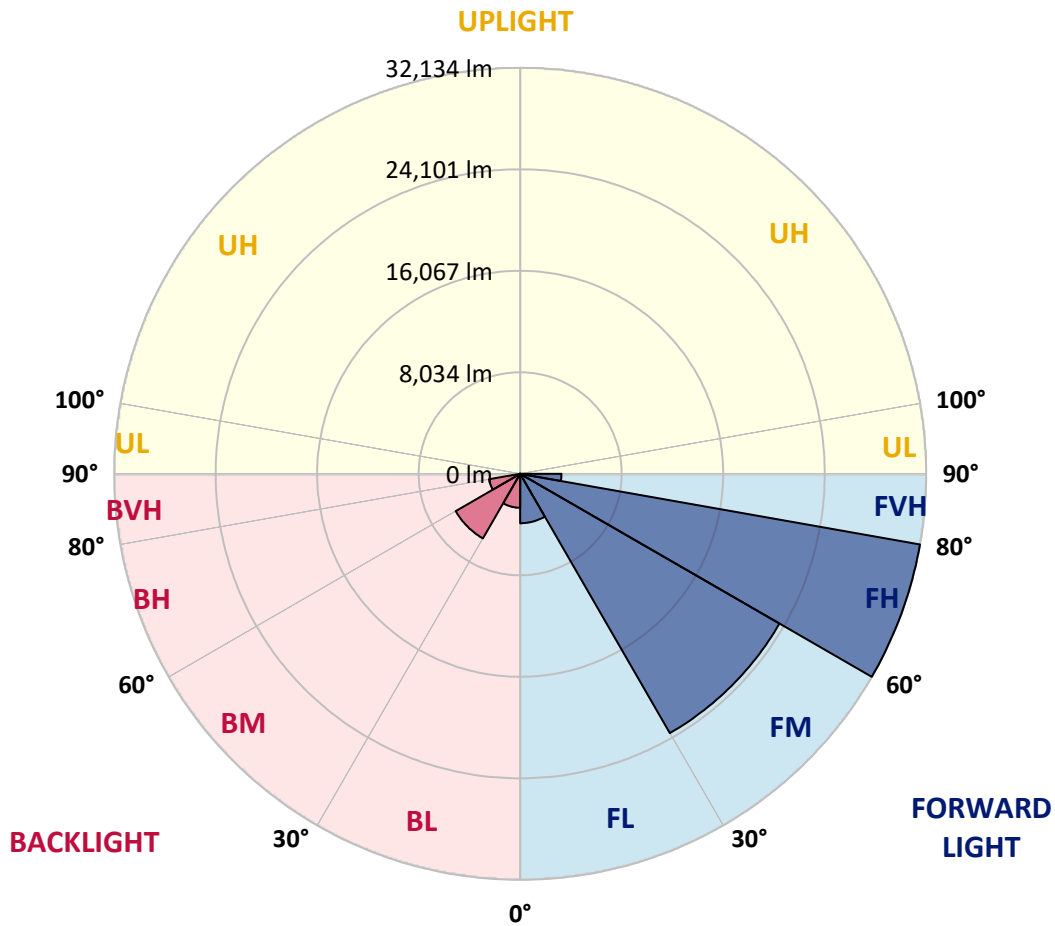
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3911.5	5.3			
FM (30°-60°)	23698.9	32.0			
FH (60°-80°)	32134.4	43.3			G5
FVH (80°-90°)	3268.2	4.4			G5
BL (0°-30°)	2688.4	3.6	B4/5000		
BM (30°-60°)	5898.2	8.0	B4/8500		
BH (60°-80°)	2499.7	3.4	B3/2500		G3/2500
BVH (80°-90°)	65.6	0.1			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8
2.5°	7365.5	7354.3	7389.6	7347.9	7336.6	7299.7	7303.0	7320.6	7335.0	7304.6	7301.4
5°	7453.8	7450.6	7474.6	7434.5	7426.5	7396.0	7384.8	7402.4	7407.2	7360.7	7339.9
7.5°	7538.8	7535.6	7569.3	7522.8	7532.4	7495.5	7481.0	7495.5	7501.9	7445.7	7423.3
10°	7594.9	7591.7	7628.6	7606.2	7646.3	7623.8	7619.0	7643.1	7662.3	7580.5	7545.2
12.5°	7673.6	7672.0	7718.5	7708.9	7769.8	7757.0	7779.4	7827.6	7858.1	7782.7	7721.7
15°	7800.3	7814.7	7858.1	7866.1	7951.1	7959.1	7994.4	8073.0	8121.2	8044.2	7988.0
17.5°	8158.1	8132.4	8193.4	8198.2	8235.1	8259.1	8286.4	8411.6	8482.1	8437.2	8397.1
20°	8847.9	8843.1	8841.5	8806.2	8787.0	8751.7	8761.3	8828.7	8936.2	8942.6	8952.2
22.5°	9714.3	9751.2	9735.1	9627.6	9500.9	9465.6	9420.7	9411.1	9480.0	9520.2	9576.3
25°	10561.4	10535.7	10571.0	10348.0	10210.0	10161.9	10139.4	10168.3	10200.4	10246.9	10336.8
27.5°	11188.7	11158.2	11129.3	10978.5	10859.8	10808.4	10826.1	10933.6	11053.9	11079.6	11224.0
30°	11729.3	11673.2	11637.9	11560.9	11479.1	11418.1	11435.7	11686.0	11998.9	12109.6	12372.7
32.5°	12675.9	12643.8	12460.9	12067.8	12037.4	12027.7	12045.4	12456.1	12942.2	13258.3	13681.8
35°	13766.8	13733.2	13558.3	13166.8	12666.3	12610.1	12687.1	13150.8	13948.1	14759.9	15433.8
37.5°	14955.7	14971.7	14817.7	14325.2	13709.1	13418.7	13332.1	13946.5	14971.7	16672.3	17338.1
40°	16564.8	16481.4	16141.3	15462.6	14963.7	14692.6	14262.6	14768.0	16234.3	18717.8	19531.2
42.5°	17814.6	17817.8	17444.0	16771.8	16102.8	15947.1	15661.6	15849.3	17753.6	21053.8	21527.0
45°	18812.5	18900.7	18674.5	18037.6	17585.2	17384.6	17158.4	17559.5	19573.0	23351.2	23397.7
47.5°	19736.6	19797.6	19576.2	19163.8	18846.2	18730.7	18830.1	19616.3	21499.8	25388.7	24978.0
50°	21228.6	21148.4	20362.3	20067.1	19978.9	20073.5	20476.2	21612.1	24126.1	27175.9	26506.9
52.5°	23800.4	23304.6	21896.0	21414.7	21467.7	21716.4	22165.6	23465.1	26685.0	28844.4	27687.7
55°	27336.4	26627.2	24860.9	23433.0	23134.6	23415.3	23925.5	25249.1	28992.0	30265.9	28645.5
57.5°	29741.3	29601.7	28830.0	27116.6	25348.6	25679.1	26038.4	27204.8	30792.1	31639.2	29462.1
60°	32025.8	32130.1	32720.5	31833.3	30031.6	29486.2	28565.3	29237.5	32497.5	32783.1	30004.4
62.5°	33829.1	34000.8	35634.0	35699.8	36739.4	35797.6	33275.6	31531.7	34026.5	33537.1	30188.9
65°	33728.1	33813.1	36226.0	37921.8	41685.6	42030.5	40341.1	34689.1	35584.3	33914.2	30002.8
67.5°	30873.9	31177.1	33376.7	37676.3	44605.5	45086.8	44218.8	39938.5	36474.7	33864.4	29264.8
70°	27183.9	27317.1	29537.5	35374.1	45627.4	45807.1	44809.2	42223.0	36133.0	33339.8	27694.1
72.5°	22316.4	22621.2	24772.6	30769.6	44196.4	44087.3	43519.3	41738.5	35476.8	31899.1	24254.4
75°	17341.3	17545.1	19521.6	25136.8	40443.8	41353.5	40933.1	40106.9	33505.0	28205.9	18058.5
77.5°	11748.6	12300.5	14208.0	19410.9	33609.3	35932.4	37231.9	36570.9	28846.0	21366.6	10449.1
80°	6666.0	6497.6	8952.2	13543.8	25783.4	28441.7	30273.9	29349.8	20556.4	11432.5	2754.7
82.5°	2124.1	2361.6	4211.4	8215.8	18202.8	20248.4	21596.0	19200.7	10389.7	2979.3	566.3
85°	965.8	1039.6	1740.7	4014.1	10660.8	11734.1	11819.2	8470.9	1671.7	592.0	353.0
87.5°	404.3	404.3	824.6	1800.1	4598.0	3731.7	2358.4	2419.3	338.5	267.9	184.5
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°	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8	7246.8
2.5°	7269.3	7266.1	7248.4	7192.3	7145.7	7132.9	7132.9	7100.8	7107.2	7112.0	7081.6
5°	7301.4	7291.7	7235.6	7142.5	7051.1	6993.3	6972.5	6917.9	6901.9	6877.8	6857.0
7.5°	7362.3	7335.0	7240.4	7105.6	6964.4	6861.8	6784.8	6683.7	6630.7	6613.1	6568.2
10°	7485.9	7437.7	7301.4	7104.0	6892.2	6702.9	6552.1	6404.5	6314.7	6245.7	6215.2
12.5°	7655.9	7596.6	7423.3	7157.0	6845.7	6563.4	6317.9	6109.3	5971.4	5891.1	5870.3
15°	7912.6	7845.2	7620.6	7269.3	6837.7	6436.6	6086.9	5766.0	5570.3	5422.7	5393.8
17.5°	8320.1	8267.2	7962.3	7476.2	6917.9	6366.0	5846.2	5368.1	5020.0	4857.9	4792.2
20°	8881.6	8812.6	8454.9	7795.5	7084.8	6335.5	5613.6	4946.2	4437.6	4099.1	4012.5
22.5°	9545.8	9443.1	8976.3	8142.0	7238.8	6289.0	5392.2	4525.8	3803.9	3260.0	3199.1
25°	10322.3	10205.2	9452.8	8418.0	7301.4	6170.3	5097.0	4044.5	3024.2	2446.6	2414.5
27.5°	11183.9	10922.4	9926.1	8631.4	7253.2	5931.2	4663.8	3316.2	2181.9	1735.9	1660.5
30°	12194.6	11750.2	10373.7	8761.3	7110.4	5555.8	4044.5	2348.8	1447.1	1119.8	1110.2
32.5°	13282.3	12666.3	10821.3	8787.0	6842.5	5037.6	3051.5	1485.6	824.6	644.9	653.0
35°	14830.5	13882.4	11309.0	8722.8	6412.5	4274.0	2011.8	847.1	457.2	405.9	385.0
37.5°	16555.2	15380.8	11841.6	8485.4	5772.4	3219.9	1201.7	412.3	336.9	322.5	317.7
40°	18576.7	17036.5	12460.9	8129.2	4947.8	2210.8	564.7	324.1	308.0	300.0	300.0
42.5°	20452.1	18735.5	13255.1	7654.3	3991.6	1288.3	375.4	311.2	277.6	274.3	275.9
45°	22147.9	20211.5	13977.0	7099.2	3001.7	649.8	362.6	277.6	247.1	247.1	247.1
47.5°	23654.4	21434.0	14498.4	6399.7	2056.8	430.0	362.6	253.5	224.6	223.0	224.6
50°	24915.4	22462.4	14833.7	5634.4	1211.3	402.7	332.1	240.7	203.8	208.6	208.6
52.5°	25889.2	23198.8	14877.0	4687.9	664.2	393.1	316.1	223.0	186.1	213.4	219.8
55°	26670.6	23681.7	14626.8	3600.1	486.1	369.0	309.6	207.0	184.5	242.3	253.5
57.5°	27163.1	23898.3	14026.7	2443.4	450.8	338.5	288.8	189.3	174.9	215.0	223.0
60°	27413.4	23822.9	13123.5	1530.5	441.2	330.5	266.3	181.3	155.6	155.6	157.2
62.5°	27358.8	23405.7	11885.0	917.7	412.3	317.7	250.3	174.9	130.0	105.9	105.9
65°	26739.5	22476.8	9884.3	657.8	391.5	316.1	239.0	165.2	110.7	81.8	77.0
67.5°	25476.9	20673.5	6905.1	574.4	401.1	316.1	239.0	158.8	104.3	65.8	59.4
70°	23088.1	17111.9	3226.3	526.2	415.5	328.9	243.9	157.2	93.1	51.3	46.5
72.5°	18655.3	11851.3	786.1	426.8	418.7	328.9	263.1	155.6	83.4	40.1	35.3
75°	11995.7	5591.1	559.9	327.3	369.0	316.1	266.3	186.1	88.2	25.7	22.5
77.5°	4795.4	1074.9	495.7	229.4	346.5	351.4	288.8	197.3	109.1	12.8	6.4
80°	826.2	500.6	463.7	154.0	285.6	359.4	227.8	163.6	104.3	4.8	0.0
82.5°	466.9	425.2	393.1	94.7	218.2	242.3	139.6	117.1	102.7	4.8	0.0
85°	351.4	353.0	171.7	72.2	104.3	150.8	54.5	33.7	93.1	3.2	0.0
87.5°	203.8	110.7	56.2	43.3	43.3	59.4	20.9	14.4	12.8	3.2	1.6
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)