

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: P622469

Luminaire Tested: **PRV-M-C225-D-U-T4-BZ-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622469
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-C225-D-U-T4-BZ-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K 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: 54579 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

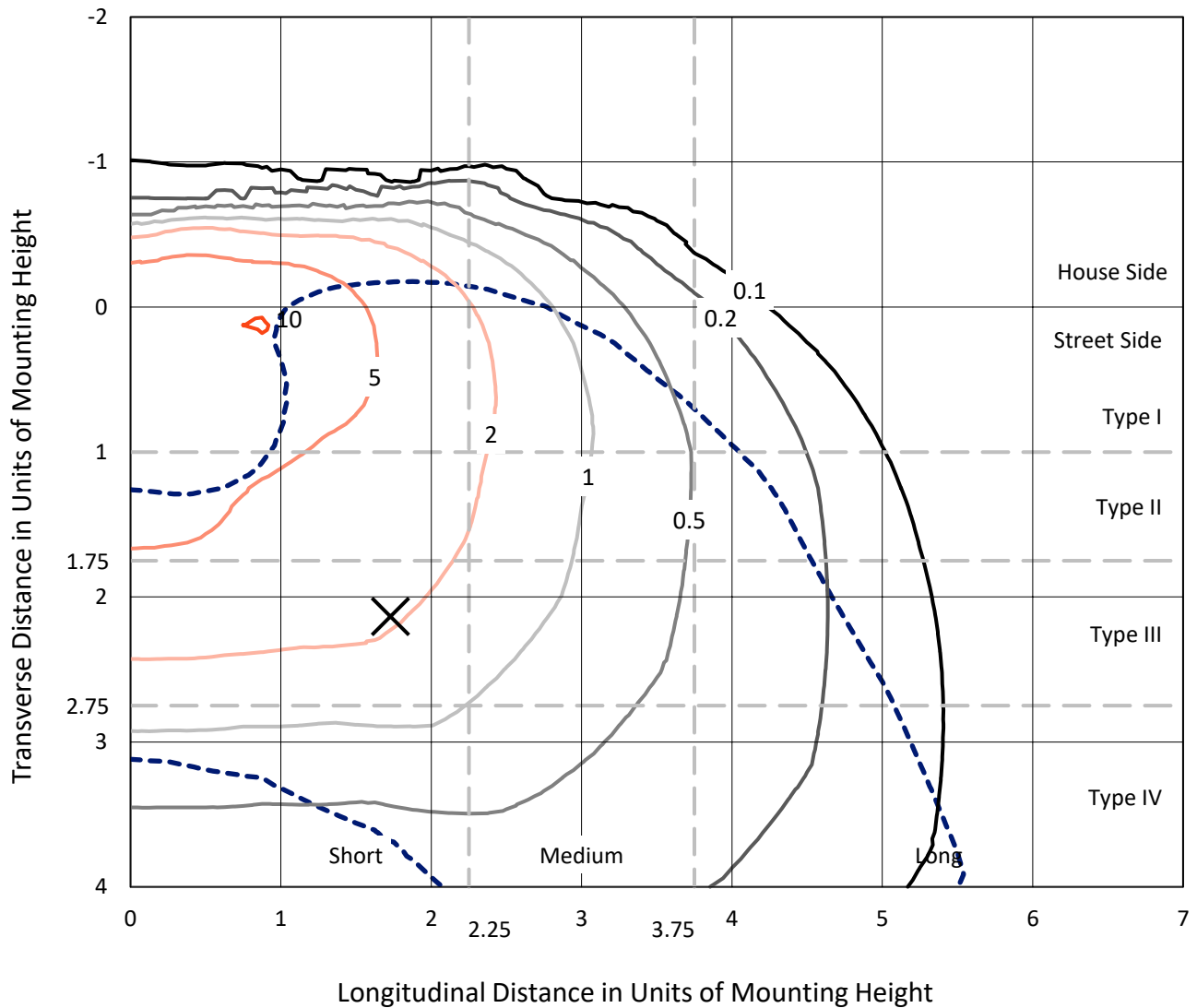
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

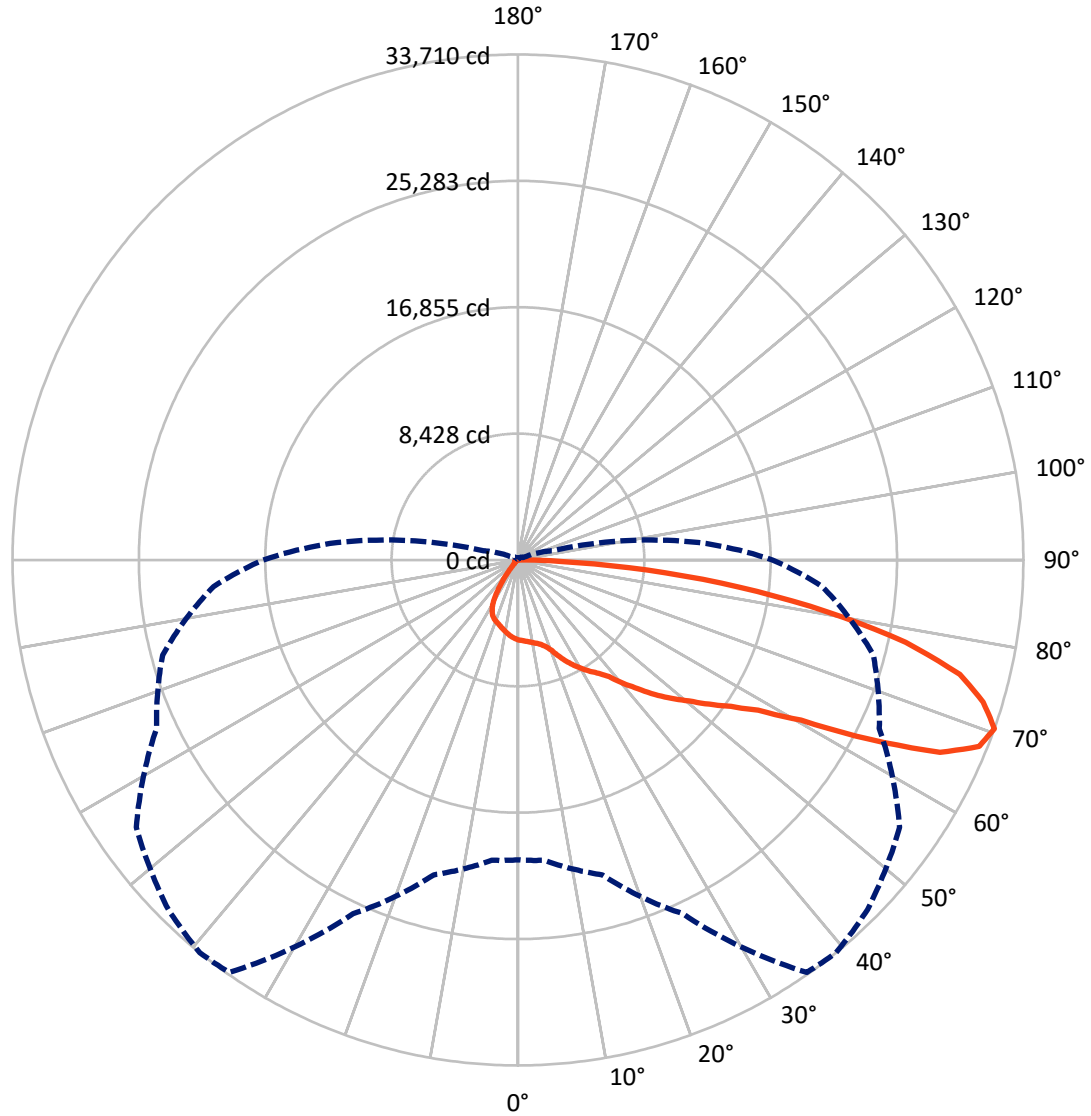
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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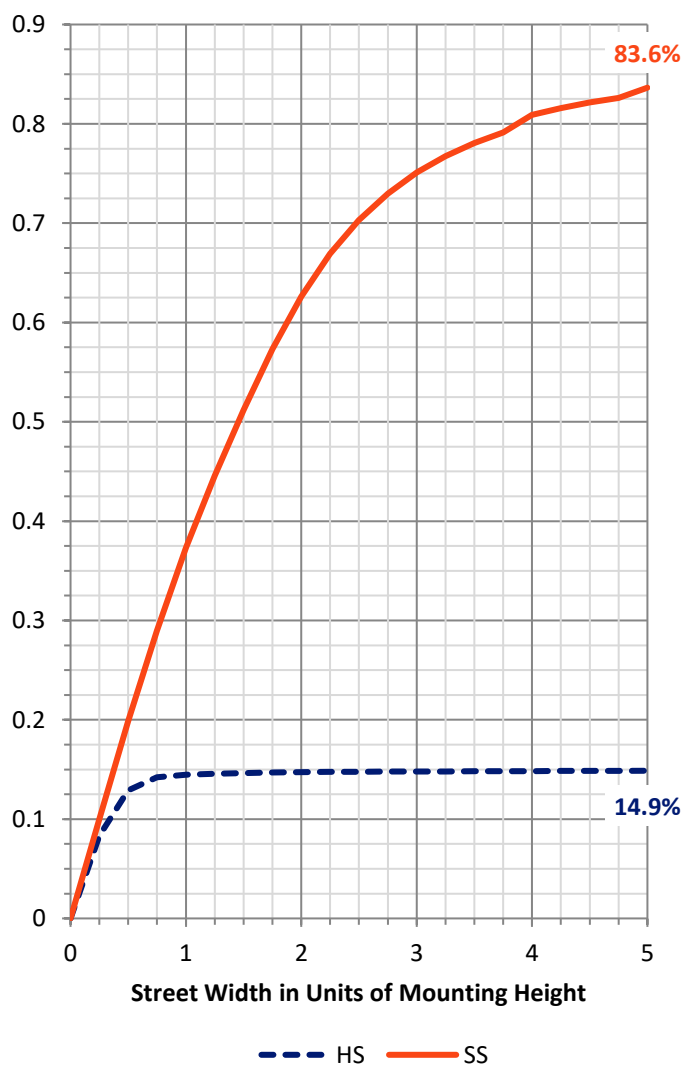
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8206.9	0.0	8206.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	46372.1	0.0	46372.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	54579.0	0.0	54579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.7	0.9
10°-20°	1529.5	2.8
20°-30°	2820.7	5.2
30°-40°	4461.4	8.2
40°-50°	6993.9	12.8
50°-60°	10325.6	18.9
60°-70°	14158.8	25.9
70°-80°	11328.9	20.8
80°-90°	2453.4	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°	54579.0	100.0
0°-180°	54579.0	100.0

Coefficient of Utilization

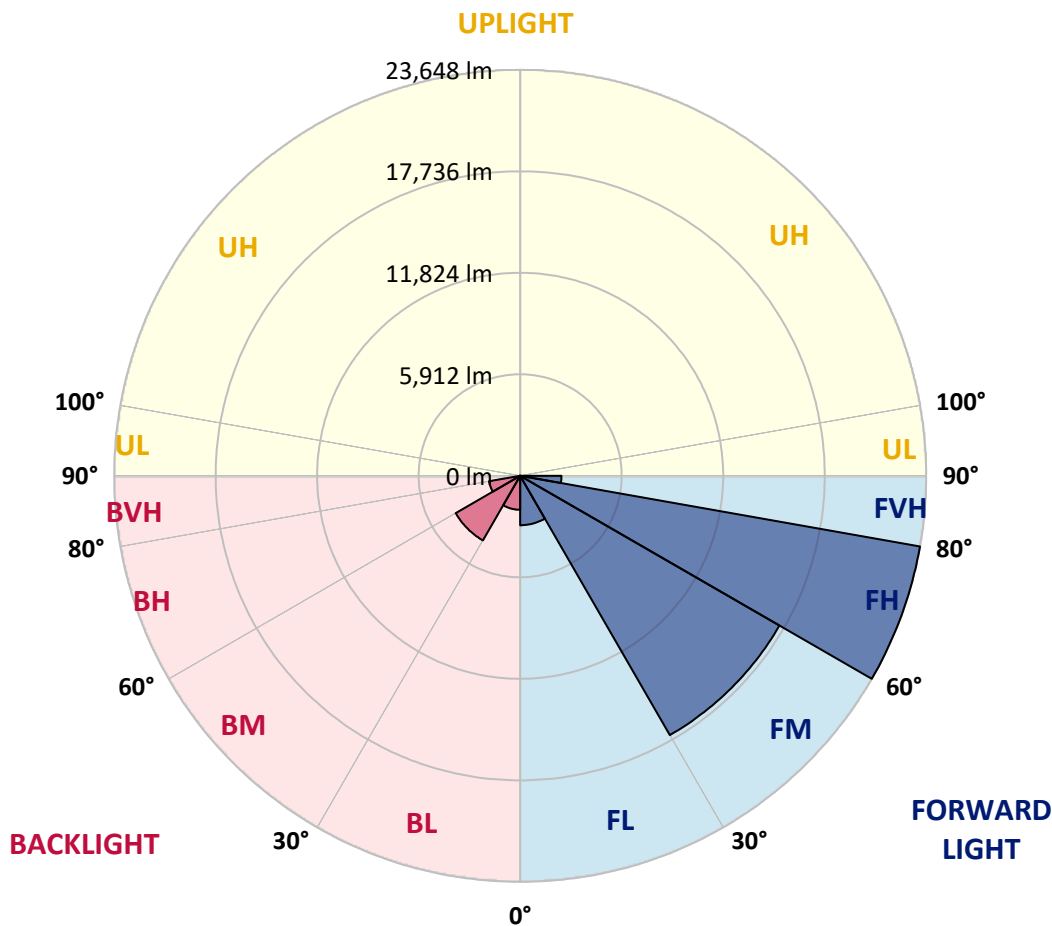


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2878.6	5.3			
FM (30°-60°)	17440.3	32.0			
FH (60°-80°)	23648.1	43.3			G5
FVH (80°-90°)	2405.1	4.4			G5
BL (0°-30°)	1978.4	3.6	B3/2500		
BM (30°-60°)	4340.6	8.0	B3/5000		
BH (60°-80°)	1839.6	3.4	B3/2500		G3/2500
BVH (80°-90°)	48.3	0.1			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0
2.5°	5420.4	5412.1	5438.1	5407.4	5399.1	5372.0	5374.3	5387.3	5398.0	5375.5	5373.2
5°	5485.3	5483.0	5500.7	5471.2	5465.3	5442.8	5434.6	5447.5	5451.1	5416.8	5401.5
7.5°	5547.9	5545.5	5570.3	5536.1	5543.2	5516.0	5505.4	5516.0	5520.7	5479.4	5462.9
10°	5589.2	5586.9	5614.0	5597.5	5627.0	5610.5	5606.9	5624.6	5638.8	5578.6	5552.6
12.5°	5647.1	5645.9	5680.1	5673.0	5717.9	5708.5	5725.0	5760.4	5782.8	5727.4	5682.5
15°	5740.3	5751.0	5782.8	5788.8	5851.3	5857.2	5883.2	5941.1	5976.5	5919.8	5878.5
17.5°	6003.6	5984.7	6029.6	6033.1	6060.3	6078.0	6098.1	6190.2	6242.1	6209.1	6179.5
20°	6511.3	6507.8	6506.6	6480.6	6466.4	6440.5	6447.6	6497.1	6576.2	6581.0	6588.1
22.5°	7148.9	7176.0	7164.2	7085.1	6991.8	6965.9	6932.8	6925.7	6976.5	7006.0	7047.3
25°	7772.3	7753.4	7779.3	7615.2	7513.7	7478.3	7461.7	7483.0	7506.6	7540.8	7607.0
27.5°	8233.9	8211.5	8190.2	8079.2	7991.9	7954.1	7967.1	8046.2	8134.7	8153.6	8259.9
30°	8631.8	8590.4	8564.5	8507.8	8447.6	8402.7	8415.7	8599.9	8830.1	8911.6	9105.2
32.5°	9328.4	9304.7	9170.1	8880.9	8858.5	8851.4	8864.4	9166.6	9524.3	9756.9	10068.6
35°	10131.2	10106.4	9977.7	9689.6	9321.3	9280.0	9336.6	9677.8	10264.6	10862.0	11357.9
37.5°	11006.1	11017.9	10904.5	10542.1	10088.7	9875.0	9811.2	10263.4	11017.9	12269.4	12759.3
40°	12190.3	12128.9	11878.6	11379.2	11012.0	10812.4	10496.0	10867.9	11947.1	13774.7	14373.3
42.5°	13110.0	13112.4	12837.3	12342.6	11850.2	11735.7	11525.6	11663.7	13065.1	15493.7	15842.0
45°	13844.4	13909.3	13742.8	13274.1	12941.2	12793.6	12627.1	12922.3	14404.0	17184.4	17218.7
47.5°	14524.4	14569.3	14406.4	14102.9	13869.2	13784.2	13857.4	14435.9	15822.0	18683.9	18381.6
50°	15622.4	15563.4	14984.9	14767.6	14702.7	14772.4	15068.7	15904.6	17754.7	19999.1	19506.8
52.5°	17515.0	17150.2	16113.6	15759.4	15798.3	15981.3	16311.9	17268.3	19637.8	21227.0	20375.7
55°	20117.2	19595.3	18295.4	17244.7	17025.0	17231.7	17607.1	18581.2	21335.6	22273.1	21080.6
57.5°	21887.0	21784.3	21216.4	19955.4	18654.4	18897.6	19162.0	20020.4	22660.3	23283.7	21681.6
60°	23568.2	23645.0	24079.5	23426.6	22100.7	21699.3	21021.6	21516.3	23915.4	24125.5	22080.6
62.5°	24895.3	25021.6	26223.5	26271.9	27037.0	26344.0	24488.0	23204.6	25040.5	24680.4	22216.4
65°	24820.9	24883.5	26659.2	27907.1	30677.0	30930.8	29687.6	25528.1	26186.9	24957.9	22079.4
67.5°	22720.5	22943.7	24562.4	27726.5	32825.8	33180.0	32541.2	29391.2	26842.2	24921.3	21536.3
70°	20005.0	20103.0	21737.0	26032.3	33577.8	33710.1	32975.7	31072.5	26590.7	24535.2	20380.5
72.5°	16422.9	16647.2	18230.5	22643.8	32524.7	32444.4	32026.5	30715.9	26107.8	23475.0	17849.1
75°	12761.7	12911.6	14366.2	18498.5	29763.1	30432.6	30123.2	29515.2	24656.8	20757.1	13289.5
77.5°	8645.9	9052.1	10455.9	14284.7	24733.5	26443.1	27399.5	26913.0	21228.2	15724.0	7689.6
80°	4905.6	4781.7	6588.1	9967.1	18974.3	20930.7	22279.0	21598.9	15127.7	8413.3	2027.2
82.5°	1563.2	1737.9	3099.2	6046.1	13395.7	14901.1	15892.8	14130.1	7645.9	2192.5	416.8
85°	710.8	765.1	1281.0	2954.0	7845.5	8635.3	8697.9	6233.9	1230.2	435.7	259.7
87.5°	297.5	297.5	606.9	1324.7	3383.8	2746.2	1735.6	1780.4	249.1	197.2	135.8
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°	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0	5333.0
2.5°	5349.5	5347.2	5334.2	5292.9	5258.6	5249.2	5249.2	5225.6	5230.3	5233.8	5211.4
5°	5373.2	5366.1	5324.8	5256.3	5189.0	5146.5	5131.1	5091.0	5079.2	5061.5	5046.1
7.5°	5418.0	5398.0	5328.3	5229.1	5125.2	5049.7	4993.0	4918.6	4879.6	4866.7	4833.6
10°	5508.9	5473.5	5373.2	5227.9	5072.1	4932.8	4821.8	4713.2	4647.1	4596.3	4573.9
12.5°	5634.1	5590.4	5462.9	5266.9	5037.9	4830.1	4649.4	4495.9	4394.4	4335.4	4320.0
15°	5823.0	5773.4	5608.1	5349.5	5032.0	4736.8	4479.4	4243.3	4099.2	3990.6	3969.4
17.5°	6122.9	6083.9	5859.6	5501.9	5091.0	4684.8	4302.3	3950.5	3694.3	3575.0	3526.6
20°	6536.1	6485.3	6222.1	5736.8	5213.8	4662.4	4131.1	3640.0	3265.7	3016.6	2952.8
22.5°	7024.9	6949.3	6605.8	5991.8	5327.1	4628.2	3968.2	3330.6	2799.3	2399.1	2354.2
25°	7596.3	7510.1	6956.4	6194.9	5373.2	4540.8	3750.9	2976.4	2225.5	1800.5	1776.9
27.5°	8230.3	8037.9	7304.7	6351.9	5337.7	4364.9	3432.2	2440.4	1605.7	1277.5	1222.0
30°	8974.2	8647.1	7634.1	6447.6	5232.7	4088.6	2976.4	1728.5	1065.0	824.1	817.0
32.5°	9774.6	9321.3	7963.5	6466.4	5035.5	3707.3	2245.6	1093.3	606.9	474.6	480.5
35°	10914.0	10216.2	8322.4	6419.2	4719.1	3145.3	1480.5	623.4	336.5	298.7	283.4
37.5°	12183.2	11318.9	8714.4	6244.5	4248.0	2369.6	884.3	303.4	247.9	237.3	233.8
40°	13670.8	12537.4	9170.1	5982.4	3641.1	1626.9	415.6	238.5	226.7	220.8	220.8
42.5°	15051.0	13787.7	9754.6	5632.9	2937.5	948.1	276.3	229.0	204.3	201.9	203.1
45°	16298.9	14873.9	10285.9	5224.4	2209.0	478.2	266.8	204.3	181.8	181.8	181.8
47.5°	17407.6	15773.6	10669.6	4709.6	1513.6	316.4	266.8	186.5	165.3	164.1	165.3
50°	18335.6	16530.4	10916.3	4146.5	891.4	296.3	244.4	177.1	149.9	153.5	153.5
52.5°	19052.2	17072.3	10948.2	3449.9	488.8	289.3	232.6	164.1	137.0	157.0	161.7
55°	19627.2	17427.7	10764.0	2649.4	357.7	271.6	227.9	152.3	135.8	178.3	186.5
57.5°	19989.7	17587.0	10322.5	1798.1	331.8	249.1	212.5	139.3	128.7	158.2	164.1
60°	20173.9	17531.6	9657.8	1126.3	324.7	243.2	196.0	133.4	114.5	114.5	115.7
62.5°	20133.7	17224.6	8746.3	675.3	303.4	233.8	184.2	128.7	95.6	77.9	77.9
65°	19678.0	16541.0	7274.0	484.1	288.1	232.6	175.9	121.6	81.5	60.2	56.7
67.5°	18748.8	15213.9	5081.5	422.7	295.2	232.6	175.9	116.9	76.7	48.4	43.7
70°	16990.8	12592.9	2374.3	387.3	305.8	242.0	179.5	115.7	68.5	37.8	34.2
72.5°	13728.7	8721.5	578.5	314.1	308.2	242.0	193.6	114.5	61.4	29.5	26.0
75°	8827.8	4114.6	412.0	240.9	271.6	232.6	196.0	137.0	64.9	18.9	16.5
77.5°	3529.0	791.0	364.8	168.8	255.0	258.6	212.5	145.2	80.3	9.4	4.7
80°	608.0	368.4	341.2	113.3	210.2	264.5	167.7	120.4	76.7	3.5	0.0
82.5°	343.6	312.9	289.3	69.7	160.6	178.3	102.7	86.2	75.6	3.5	0.0
85°	258.6	259.7	126.3	53.1	76.7	111.0	40.1	24.8	68.5	2.4	0.0
87.5°	149.9	81.5	41.3	31.9	31.9	43.7	15.3	10.6	9.4	2.4	1.2
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)