

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: P622509

Luminaire Tested: **PRV-M-C250-D-U-T4-BZ-7030-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622509
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-C250-D-U-T4-BZ-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K 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: 61707 lumens
Efficiency: N/A
Efficacy: 126.8 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

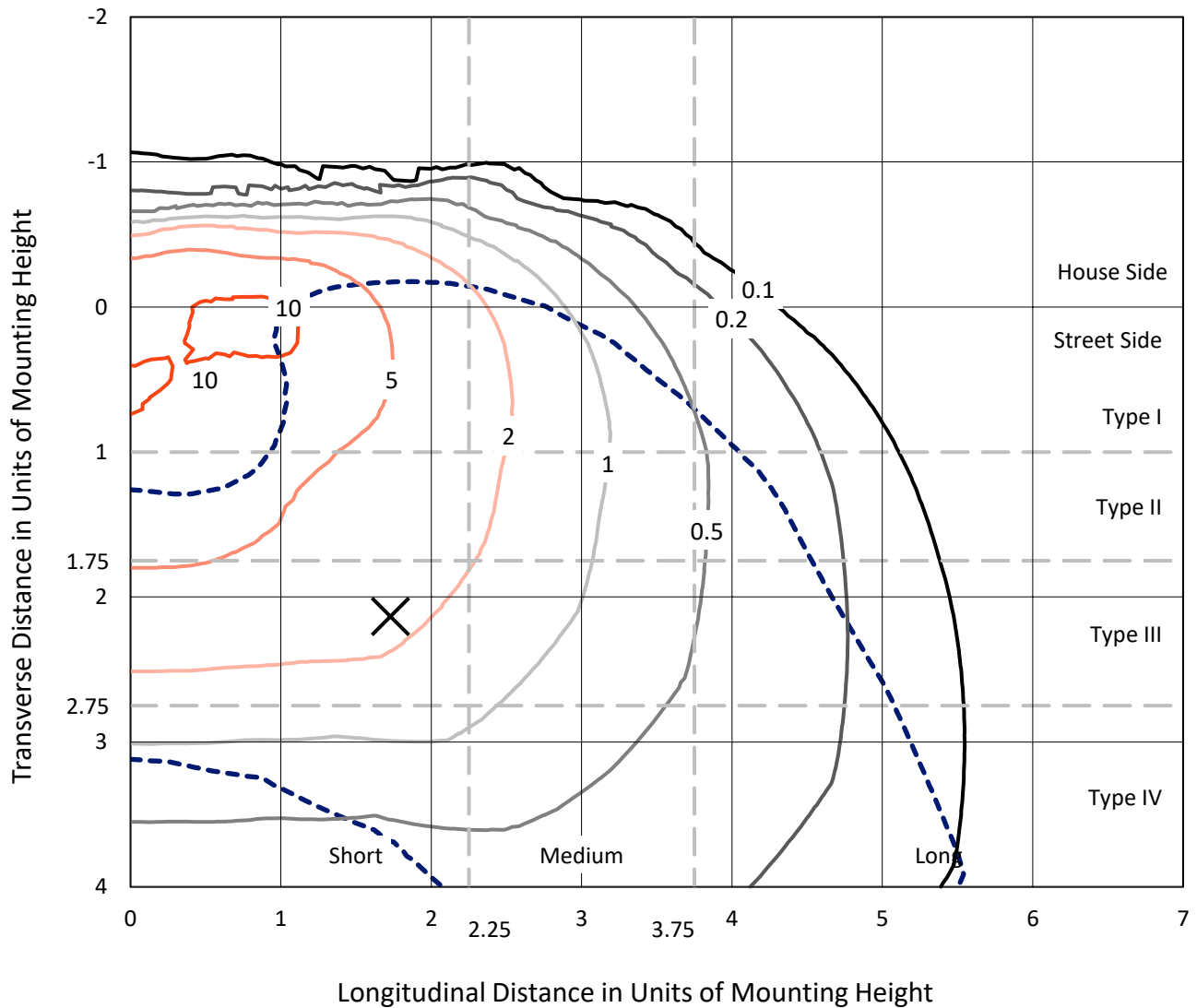
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622509
 CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

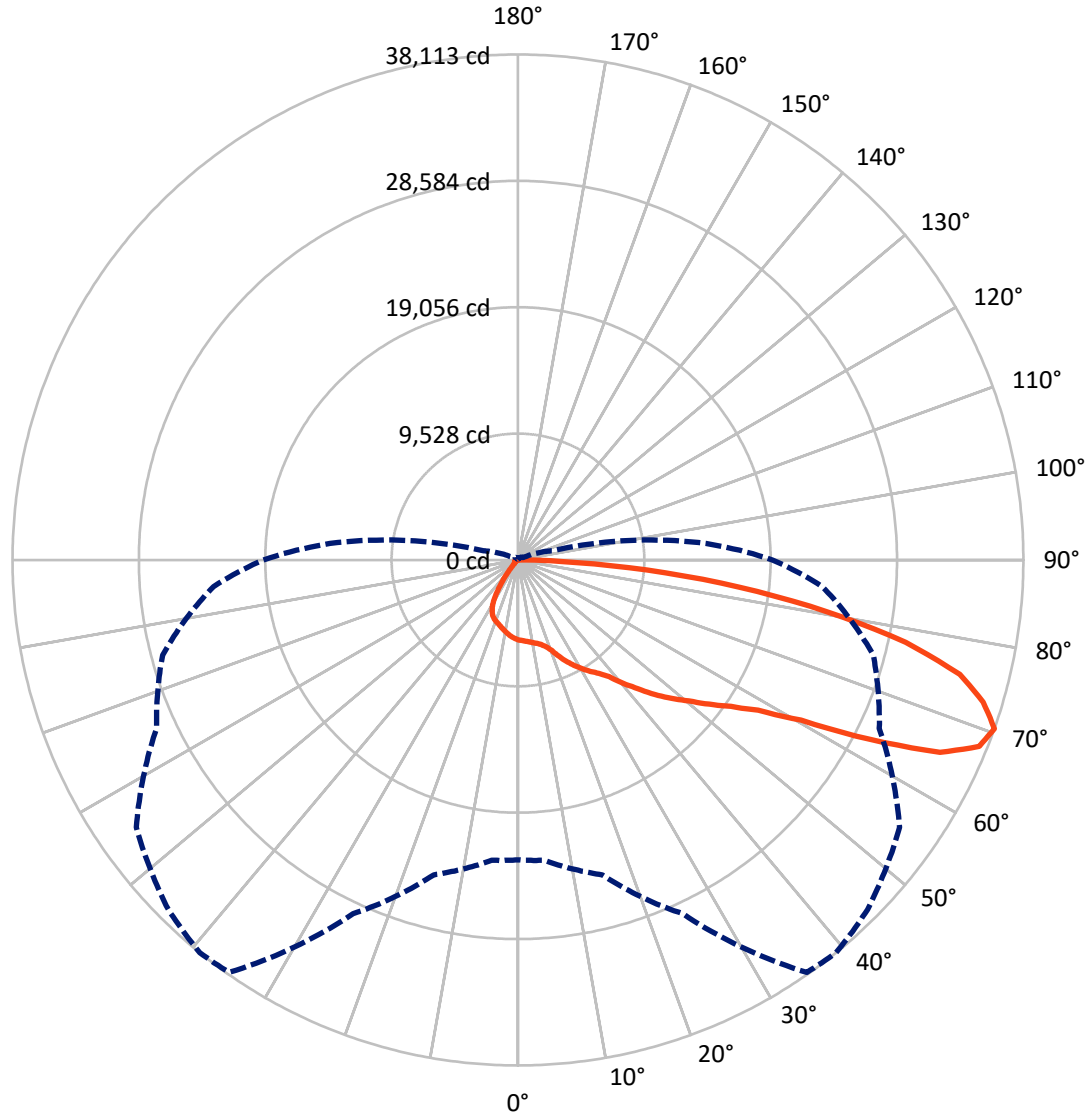
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P622509
CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P622509
 CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-7030-HSS

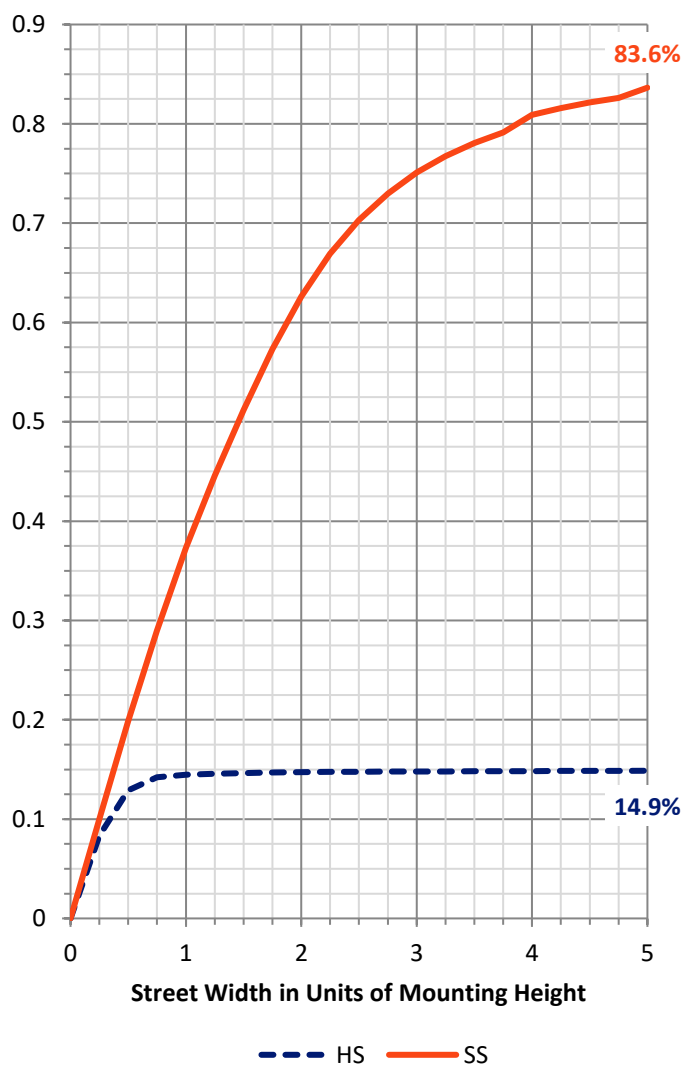
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9278.7	0.0	9278.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	52428.3	0.0	52428.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	61707.0	0.0	61707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.9	0.9
10°-20°	1729.3	2.8
20°-30°	3189.1	5.2
30°-40°	5044.1	8.2
40°-50°	7907.3	12.8
50°-60°	11674.1	18.9
60°-70°	16008.0	25.9
70°-80°	12808.4	20.8
80°-90°	2773.8	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°	61707.0	100.0
0°-180°	61707.0	100.0

Coefficient of Utilization



REPORT NUMBER: P622509

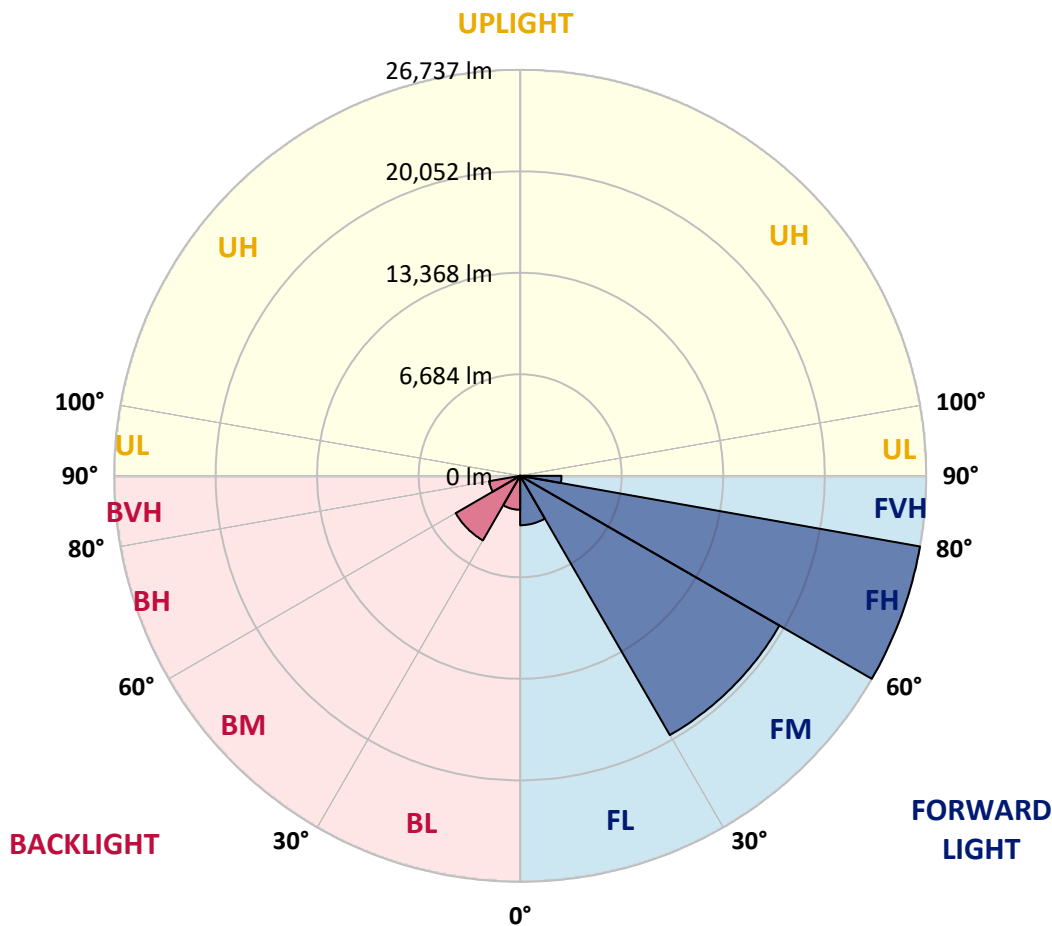
CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3254.5	5.3			
FM (30°-60°)	19718.0	32.0			
FH (60°-80°)	26736.6	43.3			G5
FVH (80°-90°)	2719.2	4.4			G5
BL (0°-30°)	2236.8	3.6	B3/2500		
BM (30°-60°)	4907.5	8.0	B3/5000		
BH (60°-80°)	2079.8	3.4	B3/2500		G3/2500
BVH (80°-90°)	54.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P622509

CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5
2.5°	6128.3	6118.9	6148.3	6113.6	6104.3	6073.6	6076.2	6090.9	6102.9	6077.6	6074.9
5°	6201.7	6199.0	6219.1	6185.7	6179.0	6153.7	6144.3	6159.0	6163.0	6124.3	6106.9
7.5°	6272.5	6269.8	6297.8	6259.1	6267.1	6236.4	6224.4	6236.4	6241.8	6195.0	6176.3
10°	6319.2	6316.5	6347.2	6328.5	6361.9	6343.2	6339.2	6359.2	6375.2	6307.2	6277.8
12.5°	6384.6	6383.2	6422.0	6413.9	6464.7	6454.0	6472.7	6512.7	6538.1	6475.4	6424.6
15°	6490.0	6502.0	6538.1	6544.8	6615.5	6622.2	6651.6	6717.0	6757.0	6692.9	6646.2
17.5°	6787.7	6766.3	6817.1	6821.1	6851.8	6871.8	6894.5	6998.6	7057.3	7020.0	6986.6
20°	7361.7	7357.7	7356.4	7327.0	7311.0	7281.6	7289.6	7345.7	7435.1	7440.4	7448.5
22.5°	8082.5	8113.2	8099.9	8010.4	7905.0	7875.6	7838.2	7830.2	7887.6	7921.0	7967.7
25°	8787.3	8766.0	8795.3	8609.8	8495.0	8454.9	8436.2	8460.3	8487.0	8525.7	8600.4
27.5°	9309.2	9283.9	9259.8	9134.4	9035.6	8992.9	9007.6	9097.0	9197.1	9218.5	9338.6
30°	9759.1	9712.4	9683.0	9618.9	9550.8	9500.1	9514.8	9723.0	9983.3	10075.4	10294.4
32.5°	10546.6	10519.9	10367.8	10040.7	10015.4	10007.4	10022.0	10363.8	10768.2	11031.2	11383.6
35°	11454.3	11426.3	11280.8	10955.1	10538.6	10491.9	10556.0	10941.8	11605.2	12280.6	12841.2
37.5°	12443.5	12456.8	12328.7	11918.9	11406.3	11164.7	11092.6	11603.8	12456.8	13871.7	14425.7
40°	13782.3	13712.9	13429.9	12865.3	12450.1	12224.5	11866.8	12287.3	13507.3	15573.7	16250.4
42.5°	14822.2	14824.8	14513.8	13954.5	13397.9	13268.4	13030.8	13187.0	14771.4	17517.2	17911.0
45°	15652.4	15725.9	15537.6	15007.7	14631.3	14464.4	14276.2	14609.9	16285.2	19428.7	19467.4
47.5°	16421.3	16472.0	16287.8	15944.8	15680.5	15584.4	15667.1	16321.2	17888.3	21124.0	20782.3
50°	17662.7	17596.0	16941.9	16696.3	16622.9	16701.6	17036.7	17981.7	20073.5	22611.0	22054.4
52.5°	19802.5	19390.0	18218.0	17817.6	17861.6	18068.5	18442.3	19523.5	22202.5	23999.2	23036.8
55°	22744.5	22154.5	20684.8	19496.8	19248.5	19482.1	19906.6	21007.8	24122.0	25181.9	23833.7
57.5°	24745.4	24629.3	23987.2	22561.6	21090.6	21365.6	21664.6	22635.0	25619.7	26324.5	24513.2
60°	26646.2	26733.0	27224.2	26486.1	24987.0	24533.2	23767.0	24326.3	27038.7	27276.3	24964.3
62.5°	28146.6	28289.4	29648.3	29703.0	30568.0	29784.5	27686.1	26235.1	28310.8	27903.7	25117.8
65°	28062.5	28133.3	30140.9	31551.8	34683.4	34970.4	33564.8	28862.1	29606.9	28217.4	24963.0
67.5°	25687.8	25940.1	27770.2	31347.6	37112.8	37513.2	36791.1	33229.7	30347.8	28176.0	24349.0
70°	22617.7	22728.5	24575.9	29432.1	37963.1	38112.6	37282.3	35130.5	30063.5	27739.5	23042.2
72.5°	18567.7	18821.4	20611.4	25601.1	36772.4	36681.6	36209.1	34727.4	29517.5	26540.8	20180.2
75°	14428.4	14597.9	16242.4	20914.4	33650.2	34407.1	34057.3	33369.9	27877.0	23468.0	15025.1
77.5°	9775.1	10234.3	11821.4	16150.3	27963.7	29896.6	30977.8	30427.9	24000.6	17777.5	8693.9
80°	5546.3	5406.1	7448.5	11268.8	21452.4	23664.2	25188.6	24419.7	17103.4	9512.1	2291.9
82.5°	1767.3	1964.9	3504.0	6835.8	15145.2	16847.1	17968.4	15975.5	8644.5	2478.8	471.2
85°	803.6	865.0	1448.3	3339.8	8870.1	9763.1	9833.8	7048.0	1390.9	492.6	293.7
87.5°	336.4	336.4	686.1	1497.7	3825.7	3104.9	1962.2	2013.0	281.7	222.9	153.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622509

CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5	6029.5
2.5°	6048.2	6045.5	6030.8	5984.1	5945.4	5934.7	5934.7	5908.0	5913.4	5917.4	5892.0
5°	6074.9	6066.9	6020.2	5942.7	5866.7	5818.6	5801.3	5755.9	5742.5	5722.5	5705.1
7.5°	6125.6	6102.9	6024.2	5912.0	5794.6	5709.1	5645.1	5561.0	5516.9	5502.2	5464.9
10°	6228.4	6188.4	6074.9	5910.7	5734.5	5577.0	5451.5	5328.7	5254.0	5196.6	5171.2
12.5°	6369.9	6320.5	6176.3	5954.8	5695.8	5460.9	5256.6	5083.1	4968.3	4901.6	4884.2
15°	6583.5	6527.4	6340.5	6048.2	5689.1	5355.4	5064.4	4797.4	4634.6	4511.8	4487.8
17.5°	6922.5	6878.5	6624.9	6220.4	5755.9	5296.7	4864.2	4466.4	4176.7	4041.9	3987.2
20°	7389.7	7332.3	7034.7	6486.0	5894.7	5271.3	4670.6	4115.3	3692.2	3410.5	3338.5
22.5°	7942.3	7856.9	7468.5	6774.4	6022.8	5232.6	4486.4	3765.6	3164.9	2712.4	2661.7
25°	8588.4	8491.0	7864.9	7004.0	6074.9	5133.8	4240.8	3365.2	2516.2	2035.6	2008.9
27.5°	9305.2	9087.6	8258.7	7181.5	6034.9	4934.9	3880.4	2759.1	1815.4	1444.3	1381.6
30°	10146.2	9776.4	8631.1	7289.6	5916.0	4622.6	3365.2	1954.2	1204.0	931.7	923.7
32.5°	11051.2	10538.6	9003.6	7311.0	5693.1	4191.4	2538.9	1236.1	686.1	536.6	543.3
35°	12339.3	11550.4	9409.3	7257.6	5335.4	3556.0	1673.9	704.8	380.4	337.7	320.4
37.5°	13774.3	12797.2	9852.5	7060.0	4802.8	2679.0	999.8	343.1	280.3	268.3	264.3
40°	15456.2	14174.8	10367.8	6763.7	4116.7	1839.4	469.9	269.6	256.3	249.6	249.6
42.5°	17016.6	15588.4	11028.5	6368.6	3321.1	1071.9	312.4	259.0	230.9	228.3	229.6
45°	18427.6	16816.4	11629.2	5906.7	2497.5	540.6	301.7	230.9	205.6	205.6	205.6
47.5°	19681.0	17833.6	12063.0	5324.7	1711.3	357.7	301.7	210.9	186.9	185.5	186.9
50°	20730.2	18689.2	12342.0	4688.0	1007.8	335.0	276.3	200.2	169.5	173.5	173.5
52.5°	21540.5	19301.9	12378.1	3900.4	552.6	327.0	263.0	185.5	154.8	177.5	182.9
55°	22190.5	19703.7	12169.8	2995.4	404.5	307.0	257.6	172.2	153.5	201.6	210.9
57.5°	22600.3	19883.9	11670.6	2033.0	375.1	281.7	240.3	157.5	145.5	178.9	185.5
60°	22808.6	19821.2	10919.1	1273.4	367.1	275.0	221.6	150.8	129.5	129.5	130.8
62.5°	22763.2	19474.1	9888.6	763.5	343.1	264.3	208.2	145.5	108.1	88.1	88.1
65°	22247.9	18701.2	8224.0	547.3	325.7	263.0	198.9	137.5	92.1	68.1	64.1
67.5°	21197.4	17200.9	5745.2	477.9	333.7	263.0	198.9	132.2	86.8	54.7	49.4
70°	19209.8	14237.5	2684.4	437.8	345.7	273.6	202.9	130.8	77.4	42.7	38.7
72.5°	15521.6	9860.5	654.1	355.1	348.4	273.6	218.9	129.5	69.4	33.4	29.4
75°	9980.7	4651.9	465.9	272.3	307.0	263.0	221.6	154.8	73.4	21.4	18.7
77.5°	3989.9	894.3	412.5	190.9	288.3	292.3	240.3	164.2	90.8	10.7	5.3
80°	687.4	416.5	385.8	128.1	237.6	299.0	189.5	136.2	86.8	4.0	0.0
82.5°	388.4	353.7	327.0	78.8	181.5	201.6	116.1	97.4	85.4	4.0	0.0
85°	292.3	293.7	142.8	60.1	86.8	125.5	45.4	28.0	77.4	2.7	0.0
87.5°	169.5	92.1	46.7	36.0	36.0	49.4	17.4	12.0	10.7	2.7	1.3
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)