

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: P622511

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622511
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-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: 62845 lumens
Efficiency: N/A
Efficacy: 129.2 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

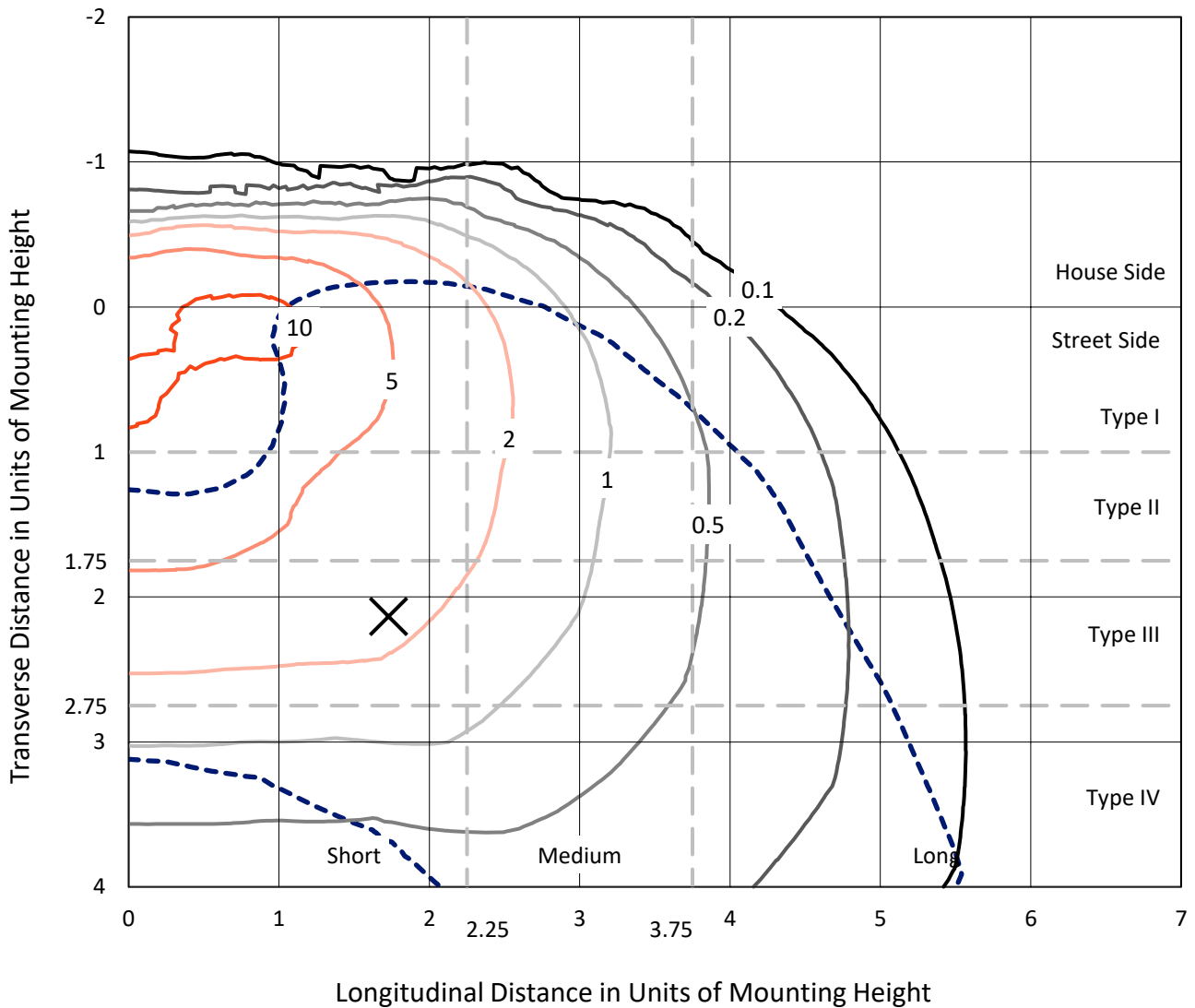
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622511
 CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-HSS

Iso-Footcandle Lines of Horizontal Illumination

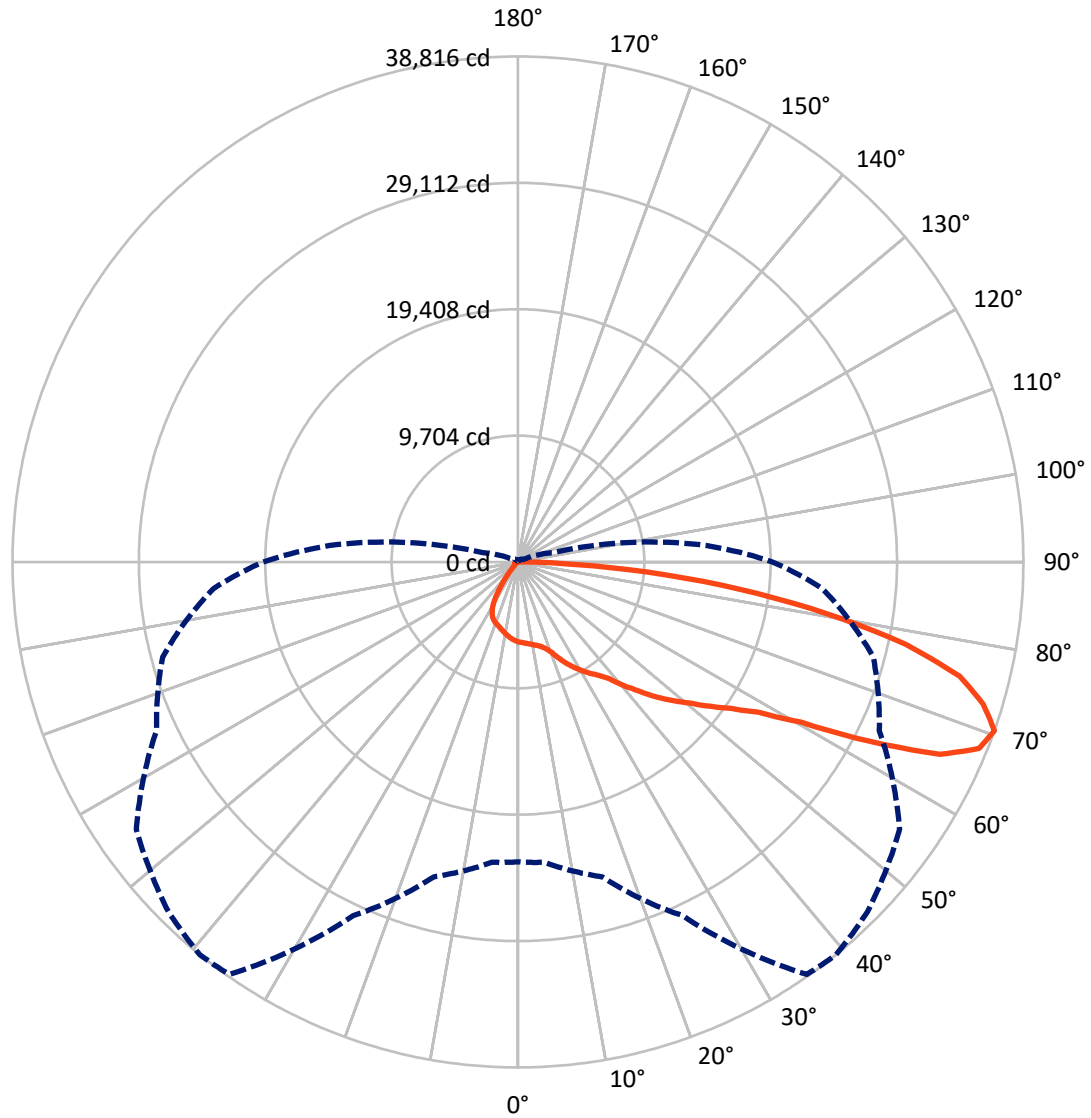
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P622511
CATALOG NUMBER: PRV-M-C250-D-U-T4-BZ-HSS

Luminous Intensity Polar Plot



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

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

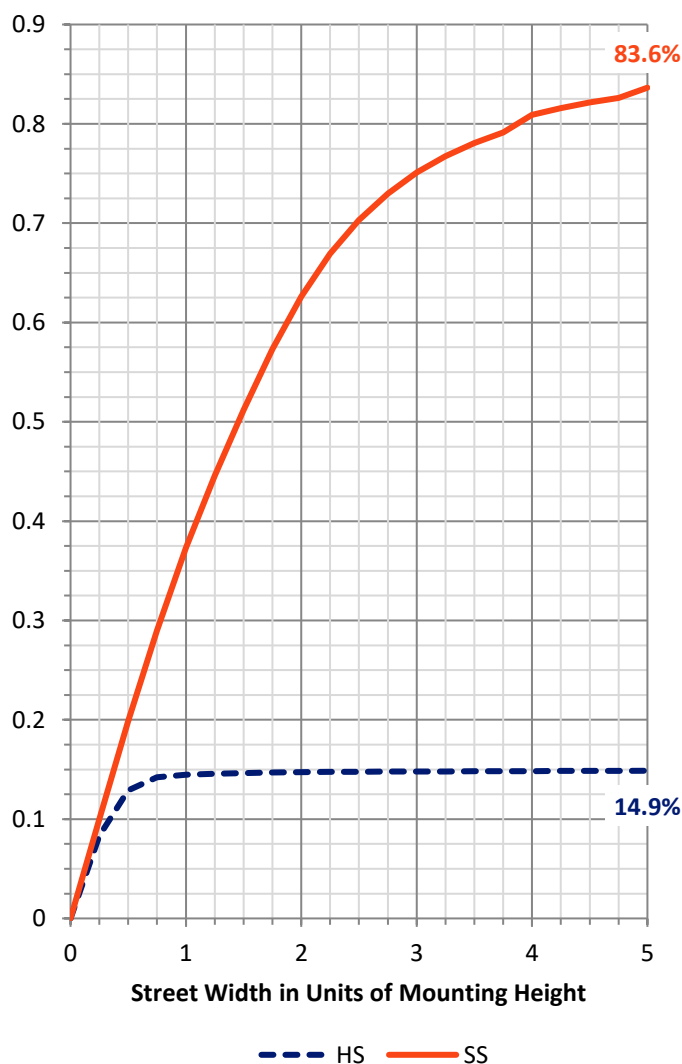
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9449.8	0.0	9449.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	53395.2	0.0	53395.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	62845.0	0.0	62845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.5	0.9
10°-20°	1761.1	2.8
20°-30°	3247.9	5.2
30°-40°	5137.1	8.2
40°-50°	8053.1	12.8
50°-60°	11889.4	18.9
60°-70°	16303.2	25.9
70°-80°	13044.6	20.8
80°-90°	2824.9	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°	62845.0	100.0
0°-180°	62845.0	100.0

Coefficient of Utilization

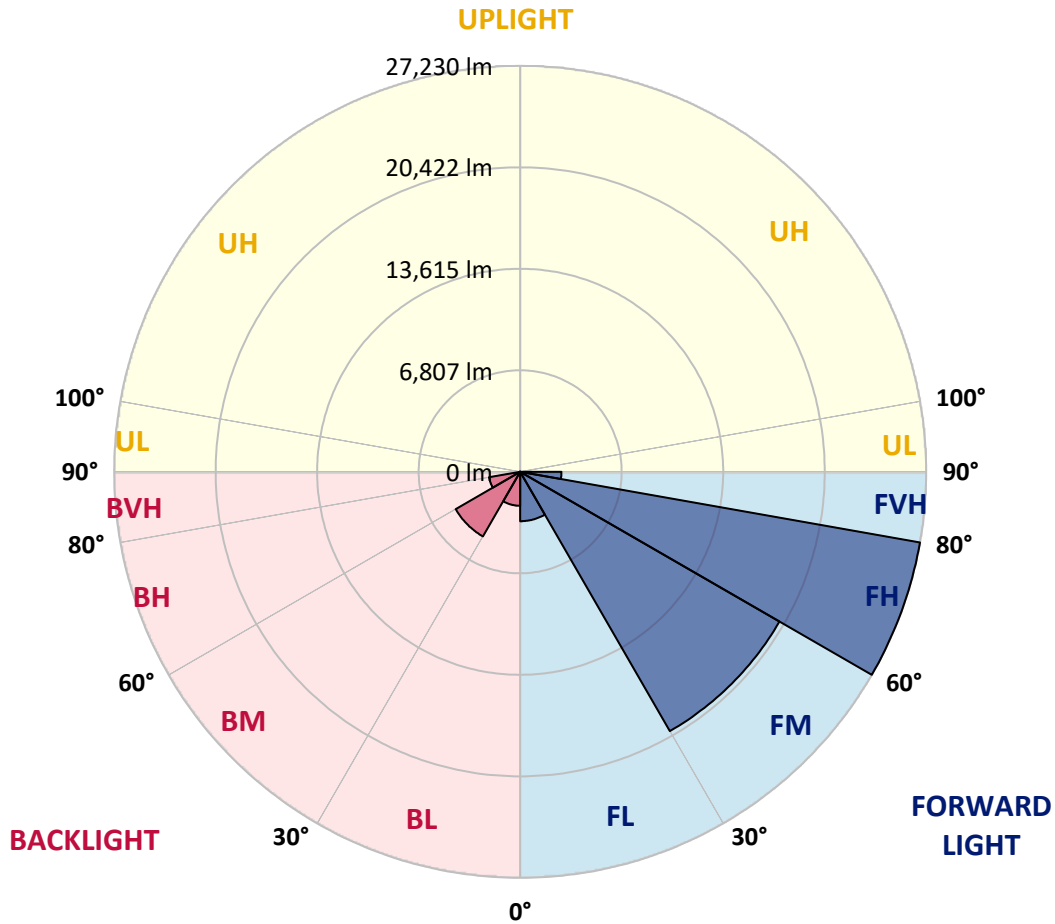


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3314.5	5.3			
FM (30°-60°)	20081.7	32.0			
FH (60°-80°)	27229.7	43.3			G5
FVH (80°-90°)	2769.4	4.4			G5
BL (0°-30°)	2278.1	3.6	B3/2500		
BM (30°-60°)	4998.0	8.0	B3/5000		
BH (60°-80°)	2118.2	3.4	B3/2500		G3/2500
BVH (80°-90°)	55.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7
2.5°	6241.3	6231.8	6261.7	6226.4	6216.8	6185.6	6188.3	6203.2	6215.5	6189.6	6186.9
5°	6316.1	6313.4	6333.8	6299.8	6293.0	6267.1	6257.6	6272.6	6276.7	6237.2	6219.6
7.5°	6388.1	6385.4	6414.0	6374.5	6382.7	6351.4	6339.2	6351.4	6356.9	6309.3	6290.2
10°	6435.7	6433.0	6464.3	6445.2	6479.2	6460.2	6456.1	6476.5	6492.8	6423.5	6393.6
12.5°	6502.3	6501.0	6540.4	6532.2	6583.9	6573.0	6592.0	6632.8	6658.7	6594.8	6543.1
15°	6609.7	6622.0	6658.7	6665.5	6737.5	6744.3	6774.2	6840.8	6881.6	6816.4	6768.8
17.5°	6912.9	6891.1	6942.8	6946.9	6978.1	6998.5	7021.6	7127.7	7187.5	7149.4	7115.4
20°	7497.5	7493.4	7492.0	7462.1	7445.8	7415.9	7424.0	7481.1	7572.2	7577.7	7585.8
22.5°	8231.6	8262.8	8249.2	8158.2	8050.8	8020.8	7982.8	7974.6	8033.1	8067.1	8114.7
25°	8949.4	8927.6	8957.5	8768.6	8651.6	8610.9	8591.8	8616.3	8643.5	8682.9	8759.0
27.5°	9480.9	9455.1	9430.6	9302.8	9202.2	9158.7	9173.7	9264.8	9366.7	9388.5	9510.8
30°	9939.1	9891.5	9861.6	9796.3	9727.0	9675.3	9690.3	9902.3	10167.4	10261.2	10484.2
32.5°	10741.1	10713.9	10559.0	10225.9	10200.1	10191.9	10206.9	10554.9	10966.8	11234.6	11593.5
35°	11665.6	11637.0	11488.8	11157.1	10733.0	10685.4	10750.7	11143.5	11819.2	12507.1	13078.1
37.5°	12672.9	12686.5	12556.0	12138.7	11616.6	11370.6	11297.2	11817.8	12686.5	14127.6	14691.7
40°	14036.5	13965.8	13677.6	13102.5	12679.7	12450.0	12085.7	12513.9	13756.4	15860.9	16550.1
42.5°	15095.5	15098.2	14781.5	14211.9	13645.0	13513.1	13271.1	13430.2	15043.8	17840.3	18241.3
45°	15941.1	16015.9	15824.2	15284.5	14901.1	14731.2	14539.5	14879.4	16585.5	19787.0	19826.4
47.5°	16724.1	16775.8	16588.2	16238.8	15969.6	15871.8	15956.0	16622.2	18218.2	21513.5	21165.5
50°	17988.5	17920.5	17254.3	17004.2	16929.4	17009.6	17350.9	18313.4	20443.6	23028.0	22461.1
52.5°	20167.7	19747.6	18554.0	18146.1	18191.0	18401.7	18782.4	19883.5	22612.0	24441.8	23461.7
55°	23163.9	22563.1	21066.3	19856.4	19603.5	19841.4	20273.7	21395.3	24566.9	25646.3	24273.3
57.5°	25201.8	25083.5	24429.6	22977.7	21479.6	21759.6	22064.1	23052.5	26092.2	26810.0	24965.2
60°	27137.7	27226.0	27726.3	26974.5	25447.8	24985.6	24205.3	24774.9	27537.3	27779.3	25424.7
62.5°	28665.7	28811.2	30195.1	30250.8	31131.8	30333.8	28196.7	26718.9	28832.9	28418.3	25581.1
65°	28580.0	28652.1	30696.7	32133.7	35323.0	35615.3	34183.8	29394.4	30153.0	28737.7	25423.4
67.5°	26161.6	26418.5	28282.3	31925.7	37797.2	38205.1	37469.6	33842.5	30907.5	28695.6	24798.0
70°	23034.8	23147.6	25029.1	29974.9	38663.2	38815.5	37969.9	35778.4	30617.9	28251.1	23467.1
72.5°	18910.2	19168.5	20991.5	26073.2	37450.6	37358.1	36876.9	35367.9	30061.9	27030.3	20552.4
75°	14694.5	14867.1	16542.0	21300.1	34270.8	35041.6	34685.4	33985.3	28391.1	23900.8	15302.1
77.5°	9955.4	10423.0	12039.4	16448.2	28479.4	30448.0	31549.1	30989.0	24443.2	18105.4	8854.2
80°	5648.6	5505.8	7585.8	11476.6	21848.0	24100.6	25653.1	24870.1	17418.8	9687.6	2334.2
82.5°	1799.9	2001.1	3568.6	6961.8	15424.5	17157.8	18299.8	16270.1	8803.9	2524.5	479.9
85°	818.4	880.9	1475.0	3401.4	9033.6	9943.1	10015.2	7178.0	1416.6	501.6	299.1
87.5°	342.6	342.6	698.8	1525.3	3896.2	3162.1	1998.4	2050.1	286.8	227.0	156.3
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°	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7	6140.7
2.5°	6159.7	6157.0	6142.1	6094.5	6055.1	6044.2	6044.2	6017.0	6022.4	6026.5	6000.7
5°	6186.9	6178.8	6131.2	6052.3	5974.9	5925.9	5908.2	5862.0	5848.4	5828.0	5810.4
7.5°	6238.6	6215.5	6135.3	6021.1	5901.4	5814.4	5749.2	5663.5	5618.7	5603.7	5565.7
10°	6343.3	6302.5	6186.9	6019.7	5840.3	5679.8	5552.1	5427.0	5350.9	5292.4	5266.6
12.5°	6487.4	6437.1	6290.2	6064.6	5800.8	5561.6	5353.6	5176.8	5059.9	4992.0	4974.3
15°	6704.9	6647.8	6457.5	6159.7	5794.0	5454.2	5157.8	4885.9	4720.1	4595.0	4570.5
17.5°	7050.2	7005.3	6747.0	6335.1	5862.0	5394.4	4953.9	4548.8	4253.8	4116.5	4060.7
20°	7526.0	7467.5	7164.4	6605.6	6003.4	5368.5	4756.8	4191.2	3760.3	3473.4	3400.0
22.5°	8088.8	8001.8	7606.2	6899.3	6133.9	5329.1	4569.2	3835.1	3223.3	2762.4	2710.8
25°	8746.8	8647.6	8010.0	7133.1	6186.9	5228.5	4319.0	3427.2	2562.6	2073.2	2046.0
27.5°	9476.8	9255.2	8411.0	7313.9	6146.1	5025.9	3952.0	2810.0	1848.9	1470.9	1407.0
30°	10333.3	9956.7	8790.3	7424.0	6025.2	4707.8	3427.2	1990.3	1226.2	948.9	940.8
32.5°	11255.0	10733.0	9169.6	7445.8	5798.1	4268.7	2585.7	1258.9	698.8	546.5	553.3
35°	12566.9	11763.5	9582.9	7391.4	5433.8	3621.6	1704.8	717.8	387.4	343.9	326.3
37.5°	14028.3	13033.2	10034.2	7190.2	4891.4	2728.4	1018.2	349.4	285.5	273.3	269.2
40°	15741.3	14436.2	10559.0	6888.4	4192.6	1873.3	478.5	274.6	261.0	254.2	254.2
42.5°	17330.5	15875.8	11231.9	6486.0	3382.4	1091.7	318.1	263.7	235.2	232.5	233.8
45°	18767.4	17126.5	11843.7	6015.6	2543.6	550.6	307.2	235.2	209.4	209.4	209.4
47.5°	20044.0	18162.5	12285.5	5422.9	1742.8	364.3	307.2	214.8	190.3	189.0	190.3
50°	21112.5	19033.9	12569.6	4774.4	1026.4	341.2	281.4	203.9	172.7	176.7	176.7
52.5°	21937.7	19657.9	12606.3	3972.4	562.8	333.1	267.8	189.0	157.7	180.8	186.2
55°	22599.8	20067.1	12394.2	3050.6	411.9	312.7	262.4	175.4	156.3	205.3	214.8
57.5°	23017.1	20250.6	11885.8	2070.5	382.0	286.8	244.7	160.4	148.2	182.2	189.0
60°	23229.2	20186.7	11120.4	1296.9	373.9	280.0	225.7	153.6	131.9	131.9	133.2
62.5°	23183.0	19833.2	10070.9	777.6	349.4	269.2	212.1	148.2	110.1	89.7	89.7
65°	22658.2	19046.1	8375.7	557.4	331.7	267.8	202.6	140.0	93.8	69.3	65.3
67.5°	21588.3	17518.1	5851.1	486.7	339.9	267.8	202.6	134.6	88.4	55.7	50.3
70°	19564.1	14500.1	2733.9	445.9	352.1	278.7	206.6	133.2	78.8	43.5	39.4
72.5°	15807.9	10042.4	666.1	361.6	354.8	278.7	223.0	131.9	70.7	34.0	29.9
75°	10164.7	4737.7	474.5	277.3	312.7	267.8	225.7	157.7	74.8	21.8	19.0
77.5°	4063.4	910.8	420.1	194.4	293.6	297.7	244.7	167.2	92.4	10.9	5.4
80°	700.1	424.2	392.9	130.5	242.0	304.5	193.0	138.7	88.4	4.1	0.0
82.5°	395.6	360.3	333.1	80.2	184.9	205.3	118.3	99.2	87.0	4.1	0.0
85°	297.7	299.1	145.5	61.2	88.4	127.8	46.2	28.5	78.8	2.7	0.0
87.5°	172.7	93.8	47.6	36.7	36.7	50.3	17.7	12.2	10.9	2.7	1.4
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)