

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: P622470

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-5)
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
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59711 lumens
Efficiency: N/A
Efficacy: 142.8 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

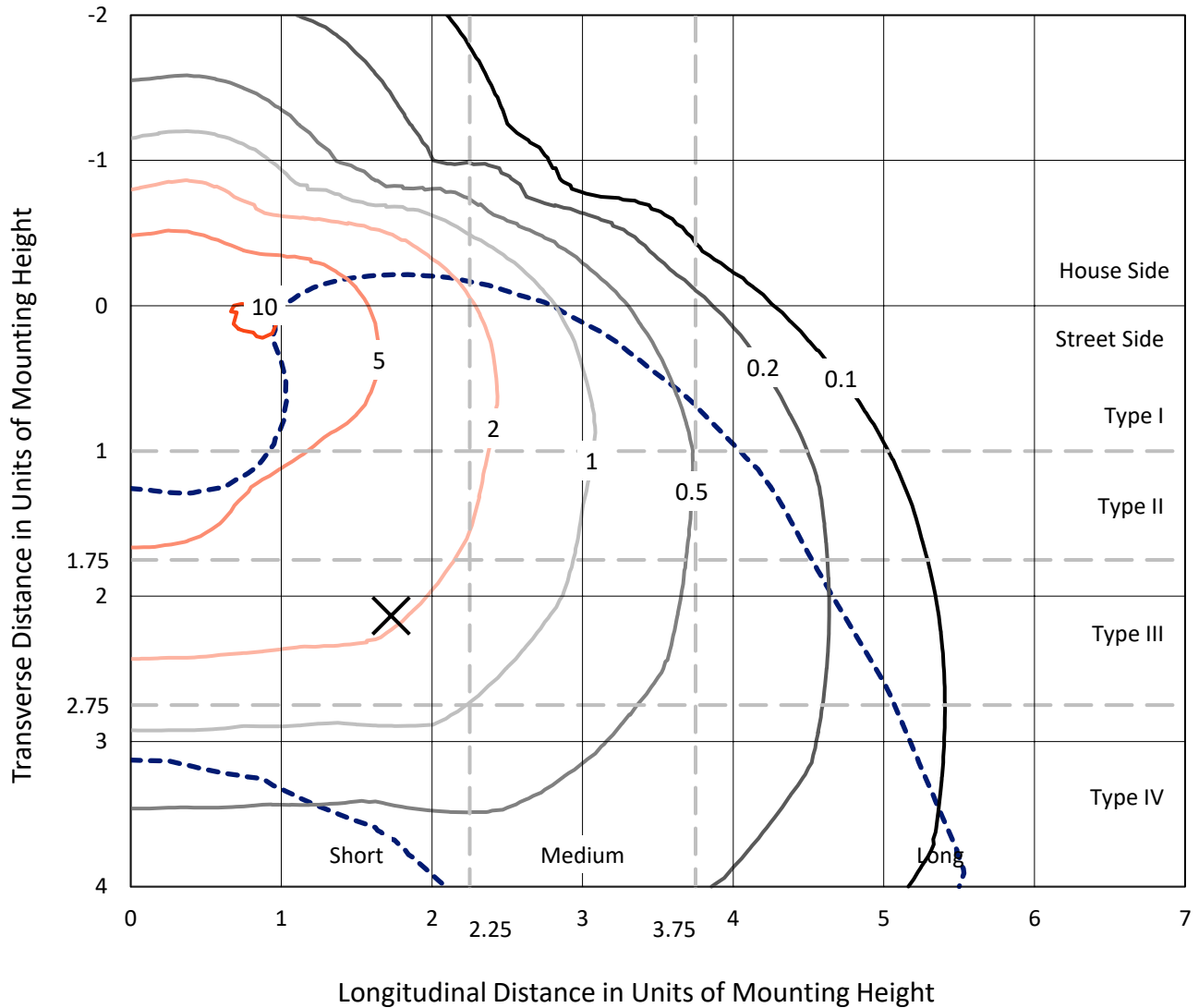
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622470
 CATALOG NUMBER: PRV-M-C225-D-U-T4-BZ

Iso-Footcandle Lines of Horizontal Illumination

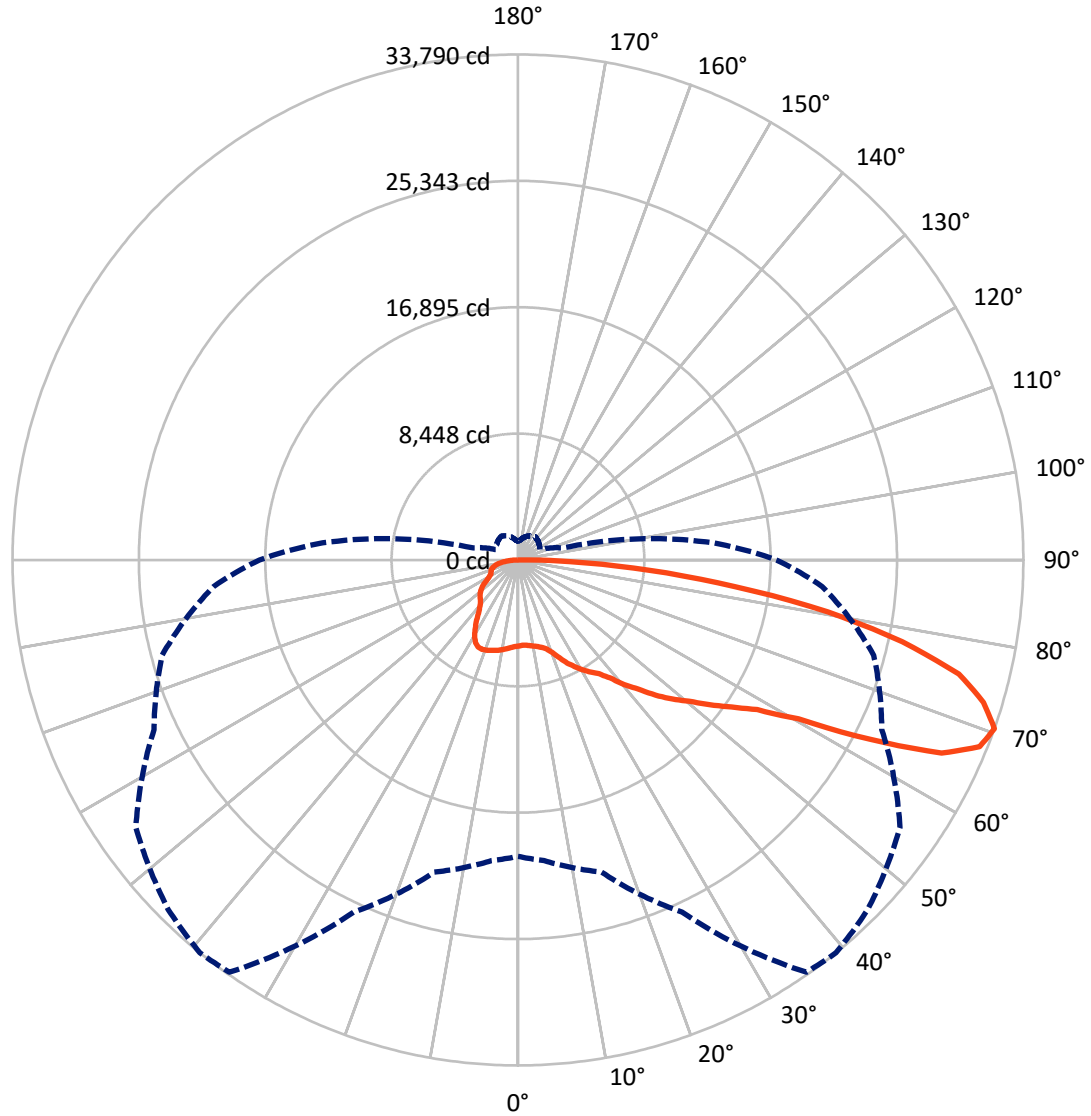
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P622470
CATALOG NUMBER: PRV-M-C225-D-U-T4-BZ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P622470

CATALOG NUMBER: PRV-M-C225-D-U-T4-BZ

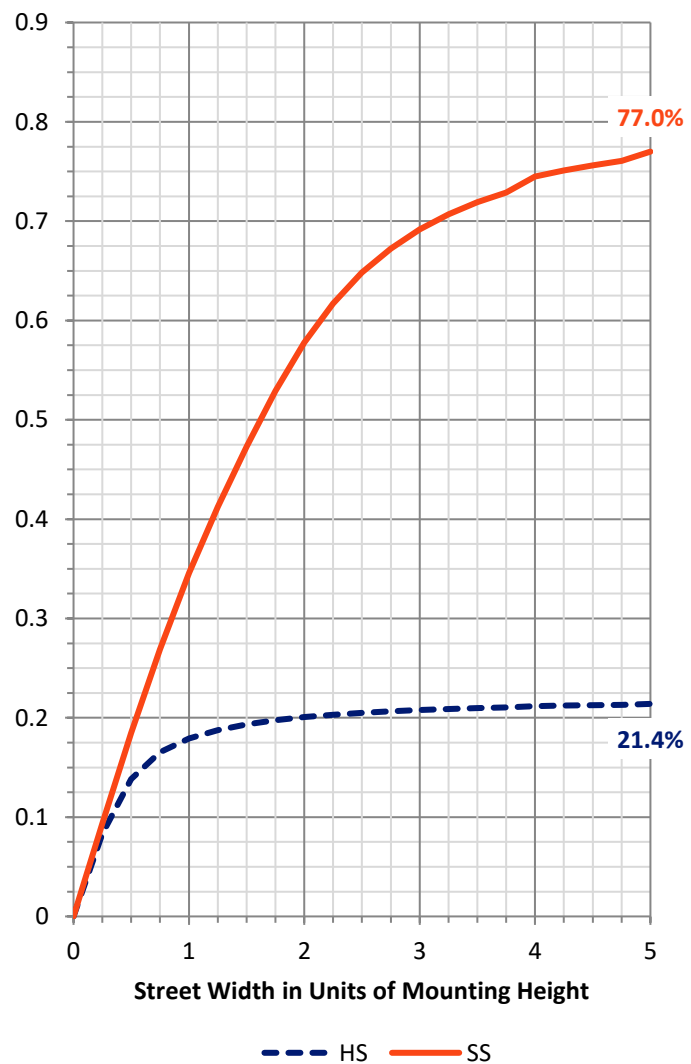
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12967.2	0.0	12967.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	46743.8	0.0	46743.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	59711.0	0.0	59711.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.2	0.9
10°-20°	1768.4	3.0
20°-30°	3302.4	5.5
30°-40°	5161.7	8.6
40°-50°	7906.4	13.2
50°-60°	11351.8	19.0
60°-70°	14985.1	25.1
70°-80°	11934.6	20.0
80°-90°	2741.3	4.6
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°	59711.0	100.0
0°-180°	59711.0	100.0



REPORT NUMBER: P622470

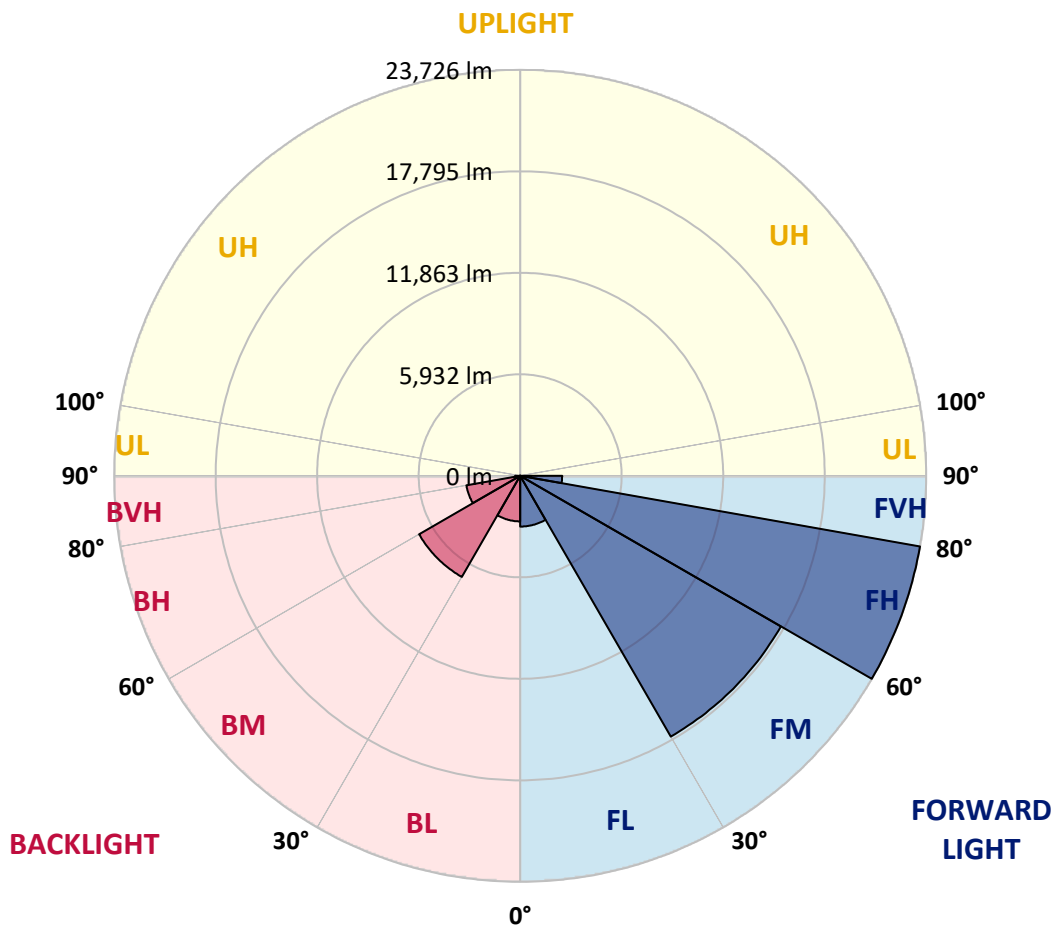
CATALOG NUMBER: PRV-M-C225-D-U-T4-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2966.2	5.0			
FM (30°-60°)	17597.0	29.5			
FH (60°-80°)	23726.0	39.7			G5
FVH (80°-90°)	2454.6	4.1			G5
BL (0°-30°)	2663.8	4.5	B4/5000		
BM (30°-60°)	6822.9	11.4	B4/8500		
BH (60°-80°)	3193.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	286.7	0.5			G3/500
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





REPORT NUMBER: P622470

CATALOG NUMBER: PRV-M-C225-D-U-T4-BZ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8
2.5°	5732.1	5729.7	5756.8	5730.9	5727.3	5708.4	5714.3	5735.6	5765.1	5759.2	5778.1
5°	5749.8	5747.4	5774.6	5738.0	5739.1	5728.5	5716.7	5742.7	5771.0	5772.2	5797.0
7.5°	5784.0	5793.4	5817.1	5785.2	5798.2	5780.5	5765.1	5797.0	5815.9	5807.6	5846.6
10°	5812.3	5818.2	5848.9	5833.6	5859.6	5853.7	5852.5	5890.3	5916.2	5891.4	5930.4
12.5°	5847.8	5860.7	5897.3	5895.0	5945.8	5943.4	5956.4	6017.8	6048.5	6026.0	6057.9
15°	5932.8	5945.8	5983.5	5993.0	6060.3	6073.3	6101.6	6180.7	6233.8	6211.4	6253.9
17.5°	6166.5	6159.4	6194.9	6192.5	6252.7	6264.5	6308.2	6412.1	6484.1	6493.6	6543.2
20°	6621.1	6635.3	6655.3	6629.3	6625.8	6615.2	6630.5	6701.4	6800.5	6854.9	6938.7
22.5°	7277.5	7239.7	7252.7	7161.8	7108.7	7102.8	7075.6	7108.7	7207.9	7282.2	7403.9
25°	7845.4	7850.1	7837.2	7722.6	7642.3	7628.2	7606.9	7632.9	7700.2	7797.0	7948.1
27.5°	8316.5	8301.1	8302.3	8172.5	8089.8	8063.8	8054.4	8199.6	8333.0	8399.1	8623.5
30°	8736.8	8699.0	8682.5	8571.5	8533.7	8516.0	8511.3	8748.6	8997.7	9179.6	9471.2
32.5°	9479.4	9442.8	9274.0	9002.5	8938.7	8934.0	8945.8	9262.2	9695.5	10029.6	10498.3
35°	10250.4	10231.5	10140.6	9802.9	9422.8	9348.4	9401.5	9815.9	10402.7	11088.7	11676.6
37.5°	11183.1	11148.9	11033.2	10616.4	10191.4	9995.4	9911.6	10350.8	11153.6	12425.2	13146.5
40°	12331.9	12220.9	12032.0	11479.5	11122.9	10942.3	10618.8	10993.0	12080.4	14013.1	14686.1
42.5°	13250.4	13219.7	12969.4	12468.8	12019.0	11800.6	11560.9	11745.1	13204.4	15638.9	16213.9
45°	13981.3	14010.8	13869.1	13429.9	13014.3	12885.6	12740.4	13021.4	14530.3	17389.8	17562.2
47.5°	14689.6	14712.1	14538.5	14228.0	13976.5	13890.3	13944.7	14556.2	16069.8	18868.0	18693.2
50°	15753.4	15666.0	15088.7	14929.3	14790.0	14831.3	15173.7	15923.4	17843.2	20297.7	19746.4
52.5°	17537.4	17206.8	16166.6	15837.2	15915.2	16065.1	16400.4	17321.3	19781.8	21420.5	20613.0
55°	20051.0	19532.7	18315.4	17209.1	17121.8	17346.1	17735.7	18771.1	21458.3	22453.6	21323.7
57.5°	21843.2	21823.1	21141.9	20128.9	18830.2	18860.9	19213.9	20154.9	22820.8	23484.3	21879.8
60°	23558.7	23674.4	24006.1	23393.4	22098.2	21557.5	21156.1	21551.6	24033.3	24304.9	22274.1
62.5°	24938.9	25026.2	26290.7	26480.8	27008.5	26422.9	24623.6	23352.1	25138.4	24817.3	22396.9
65°	24894.0	24878.6	26639.0	27987.3	30683.9	31127.8	29975.5	25766.5	26491.4	25080.5	22244.6
67.5°	22890.4	22837.3	24554.0	27817.3	33006.2	33292.0	32622.5	29554.0	26937.7	25042.8	21708.6
70°	19812.5	20174.9	21597.6	25963.7	33639.1	33790.2	33060.6	31179.8	26836.2	24626.0	20420.5
72.5°	16553.9	16664.9	18326.0	22773.6	32503.3	32549.3	32046.4	30815.0	26160.8	23648.4	17868.0
75°	13024.9	12980.1	14536.2	18388.6	29644.9	30450.1	30235.3	29610.7	24679.1	20868.0	13661.3
77.5°	9146.5	9086.3	10671.9	14195.0	24469.0	26273.0	27470.2	26930.6	21061.6	15663.7	7538.4
80°	4599.8	4974.1	6593.9	10135.9	19072.2	21003.8	22276.5	21358.0	15226.8	8703.7	2263.3
82.5°	1662.4	1733.2	3167.7	6257.4	13372.0	14609.4	15775.8	14280.0	7526.6	2180.7	467.5
85°	798.1	831.2	1297.5	3227.9	8170.1	8812.4	9272.8	6109.9	1403.8	417.9	264.5
87.5°	376.6	395.5	590.3	1286.9	3383.7	3513.6	3298.7	1776.9	245.6	158.2	109.8
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: P622470
 CATALOG NUMBER: PRV-M-C225-D-U-T4-BZ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8	5756.8
2.5°	5771.0	5780.5	5795.8	5775.7	5765.1	5774.6	5797.0	5794.6	5808.8	5814.7	5802.9
5°	5794.6	5807.6	5831.2	5826.5	5825.3	5850.1	5879.6	5892.6	5910.3	5912.7	5896.2
7.5°	5844.2	5861.9	5890.3	5902.1	5919.8	5943.4	5984.7	5988.3	6011.9	6007.1	5996.5
10°	5937.5	5961.1	6006.0	6027.2	6031.9	6050.8	6081.5	6075.6	6082.7	6079.2	6062.6
12.5°	6066.2	6094.5	6158.3	6198.4	6185.4	6172.4	6157.1	6127.6	6113.4	6102.8	6087.4
15°	6265.7	6312.9	6388.5	6390.9	6340.1	6272.8	6223.2	6134.7	6079.2	6046.1	6020.1
17.5°	6585.7	6625.8	6733.2	6661.2	6540.8	6405.0	6256.3	6070.9	5922.1	5827.7	5788.7
20°	6972.9	7052.0	7153.6	7001.3	6798.2	6552.6	6284.6	5968.2	5654.1	5448.7	5406.2
22.5°	7475.9	7569.1	7566.8	7321.2	7033.1	6664.8	6290.5	5821.8	5324.7	4932.8	4873.7
25°	8068.6	8108.7	7971.7	7586.9	7166.5	6691.9	6203.1	5577.4	4853.7	4393.2	4360.1
27.5°	8656.5	8657.7	8331.8	7784.0	7176.0	6595.1	5984.7	5152.4	4363.7	4009.5	3970.5
30°	9445.2	9259.8	8664.8	7872.6	7072.1	6354.3	5556.1	4612.8	3951.6	3638.8	3601.0
32.5°	10308.3	9964.7	8951.7	7846.6	6847.8	5963.5	4995.3	4148.8	3621.1	3309.4	3278.7
35°	11369.7	10800.6	9246.8	7728.5	6434.5	5454.6	4464.0	3802.9	3356.6	3013.0	2955.2
37.5°	12680.2	11926.9	9625.8	7526.6	5980.0	4817.1	4020.1	3501.8	3103.9	2715.5	2632.8
40°	14127.7	13107.6	10115.8	7315.3	5465.2	4363.7	3701.3	3324.7	2943.4	2518.3	2439.2
42.5°	15484.2	14366.1	10745.1	7088.6	4995.3	3997.7	3565.6	3302.3	2898.5	2462.8	2369.6
45°	16773.5	15459.4	11387.4	6795.8	4504.2	3716.7	3508.9	3269.2	2859.5	2425.1	2327.1
47.5°	17797.1	16421.7	11971.8	6488.9	4070.9	3514.8	3423.9	3152.3	2767.4	2357.8	2269.2
50°	18738.1	17170.2	12424.0	6212.6	3677.7	3356.6	3264.5	2962.2	2592.7	2263.3	2186.6
52.5°	19468.9	17762.9	12677.8	6180.7	3296.4	3151.2	3041.4	2743.8	2432.1	2132.3	2057.9
55°	19979.0	18174.9	12710.9	6026.0	2967.0	2884.3	2759.2	2553.7	2347.1	2087.4	2023.6
57.5°	20307.2	18333.1	12491.3	5093.3	2626.9	2521.9	2468.7	2416.8	2266.8	2002.4	1954.0
60°	20477.2	18219.8	11967.1	3748.6	2292.8	2175.9	2264.5	2263.3	2142.9	1879.6	1839.5
62.5°	20413.4	17885.7	10918.6	2689.5	1988.2	1996.5	2094.5	2077.9	1905.6	1658.8	1612.8
65°	19950.6	17137.1	9135.9	1943.3	1846.5	1942.2	2018.9	1935.1	1715.5	1479.4	1449.8
67.5°	18954.1	15694.4	6382.6	1722.6	1809.9	1917.4	1992.9	1864.2	1637.6	1389.6	1362.5
70°	17284.7	13108.8	3087.4	1632.8	1742.6	1866.6	1938.6	1792.2	1567.9	1307.0	1265.7
72.5°	14163.1	9118.2	1279.8	1536.0	1660.0	1748.5	1856.0	1713.1	1458.1	1170.0	1137.0
75°	8882.0	4418.0	1062.6	1423.9	1532.5	1619.9	1727.3	1560.8	1266.8	905.6	877.2
77.5°	3867.8	1040.2	1001.2	1283.4	1421.5	1475.8	1566.7	1485.3	1160.6	795.8	774.5
80°	748.5	652.9	949.2	1066.1	1223.2	1297.5	1344.8	1291.6	977.6	606.9	506.5
82.5°	427.4	558.4	826.5	794.6	967.0	958.7	1048.4	1056.7	780.4	295.2	264.5
85°	290.4	469.9	554.9	491.2	565.5	580.9	759.2	739.1	531.3	177.1	142.9
87.5°	137.0	142.9	184.2	167.7	223.1	323.5	439.2	393.2	232.6	100.4	85.0
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)