

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: P622468

Luminaire Tested: **PRV-M-C225-D-U-T4-BZ-7030**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622468  
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-7030  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58630 lumens  
Efficiency: N/A  
Efficacy: 140.2 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

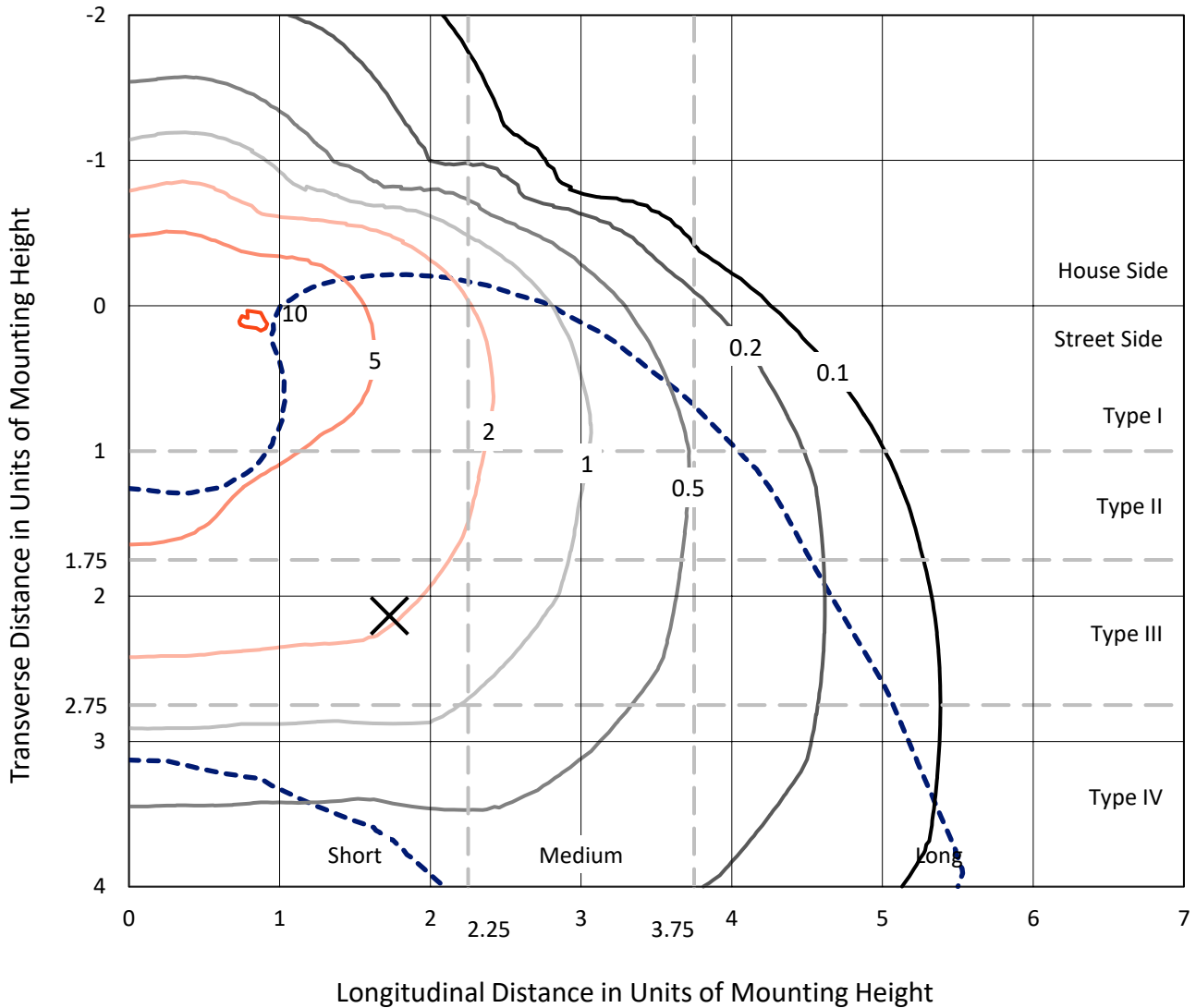
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

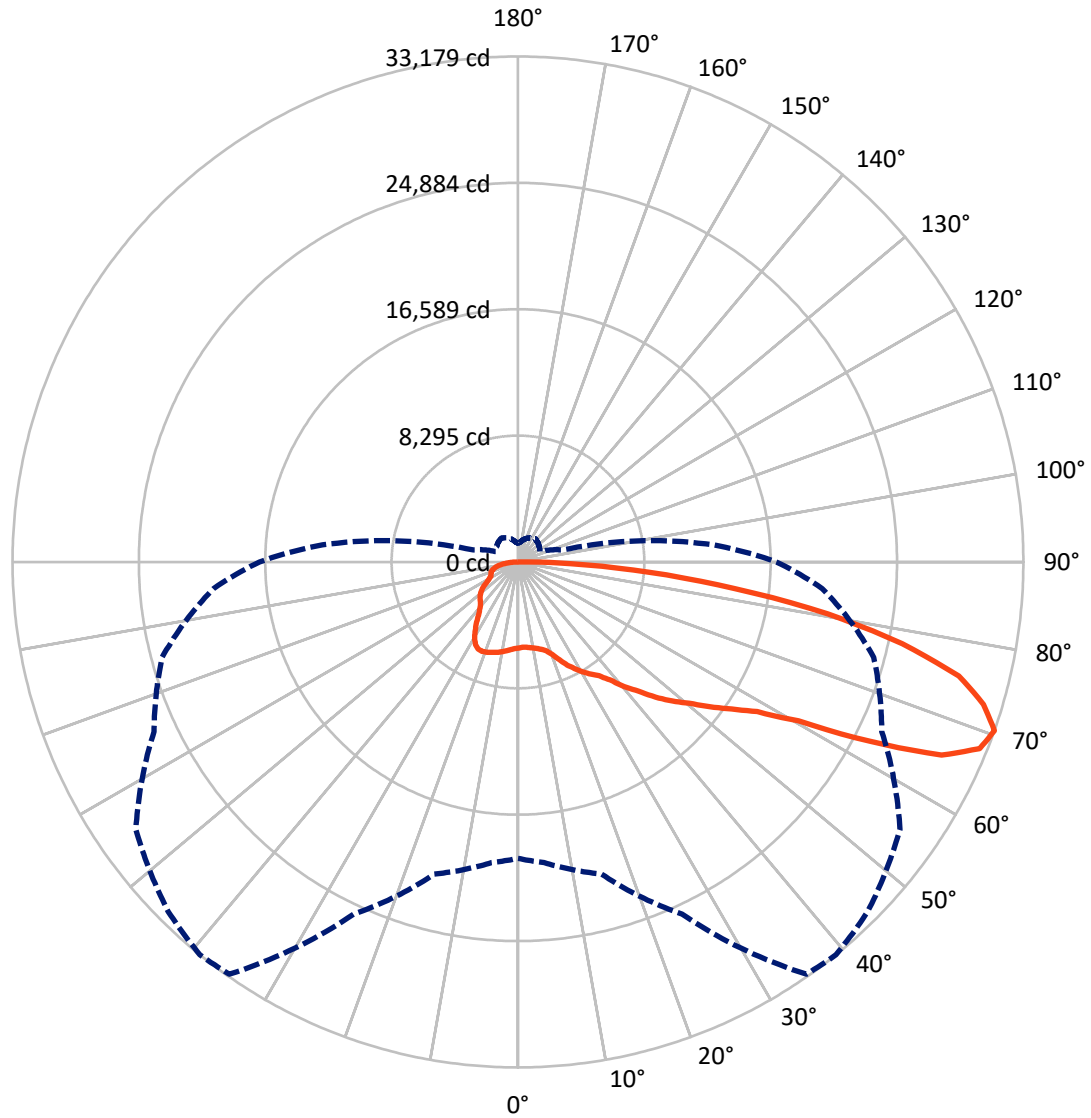
✕ Max cd  
 - - - 1/2 Max cd



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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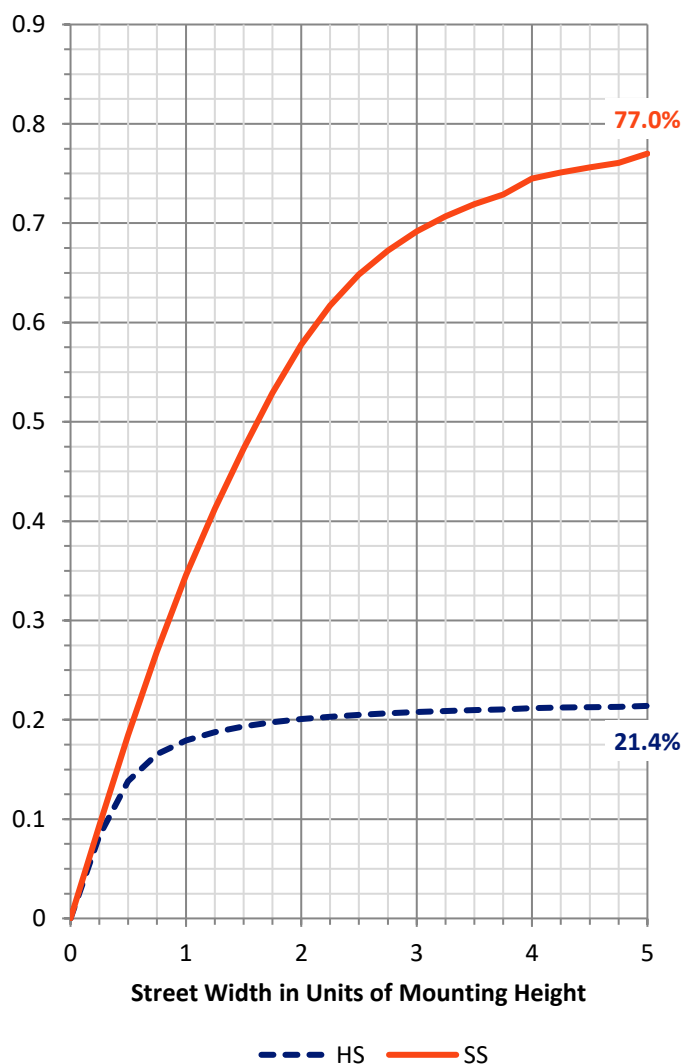
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12732.4	0.0	12732.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	45897.6	0.0	45897.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	58630.0	0.0	58630.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.1	0.9
10°-20°	1736.4	3.0
20°-30°	3242.6	5.5
30°-40°	5068.2	8.6
40°-50°	7763.2	13.2
50°-60°	11146.3	19.0
60°-70°	14713.9	25.1
70°-80°	11718.6	20.0
80°-90°	2691.7	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°	58630.0	100.0
0°-180°	58630.0	100.0

**Coefficient of Utilization**

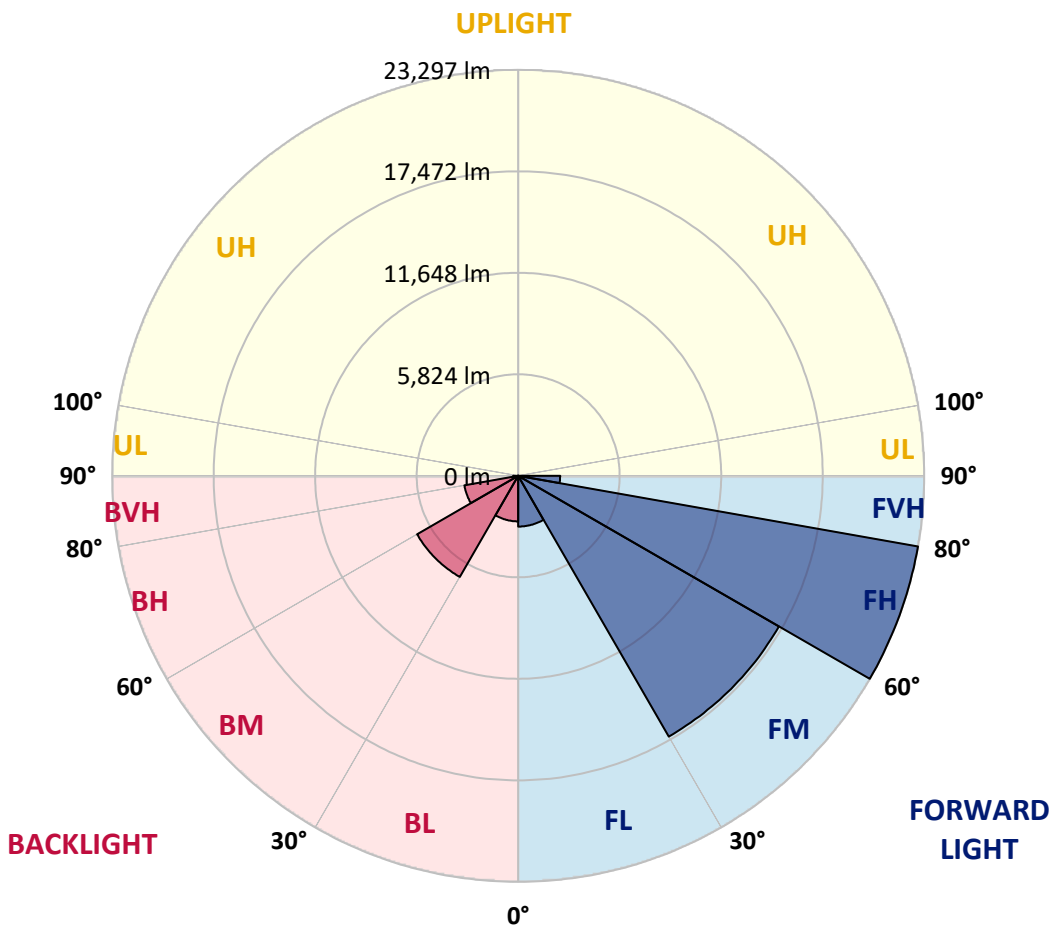


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.5	5.0			
FM (30°-60°)	17278.4	29.5			
FH (60°-80°)	23296.5	39.7			G5
FVH (80°-90°)	2410.1	4.1			G5
BL (0°-30°)	2615.6	4.5	B4/5000		
BM (30°-60°)	6699.4	11.4	B4/8500		
BH (60°-80°)	3135.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	281.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6
2.5°	5628.3	5626.0	5652.6	5627.1	5623.6	5605.1	5610.9	5631.8	5660.7	5654.9	5673.5
5°	5645.7	5643.4	5670.0	5634.1	5635.2	5624.8	5613.2	5638.7	5666.5	5667.7	5692.0
7.5°	5679.3	5688.6	5711.7	5680.4	5693.2	5675.8	5660.7	5692.0	5710.6	5702.5	5740.7
10°	5707.1	5712.9	5743.0	5728.0	5753.5	5747.7	5746.5	5783.6	5809.1	5784.8	5823.0
12.5°	5741.9	5754.6	5790.6	5788.3	5838.1	5835.8	5848.5	5908.8	5939.0	5916.9	5948.2
15°	5825.4	5838.1	5875.2	5884.5	5950.6	5963.3	5991.1	6068.8	6121.0	6098.9	6140.7
17.5°	6054.9	6047.9	6082.7	6080.4	6139.5	6151.1	6194.0	6296.0	6366.7	6376.0	6424.7
20°	6501.2	6515.1	6534.8	6509.3	6505.9	6495.4	6510.5	6580.0	6677.4	6730.8	6813.1
22.5°	7145.8	7108.7	7121.4	7032.2	6980.0	6974.2	6947.5	6980.0	7077.4	7150.4	7269.8
25°	7703.4	7708.0	7695.3	7582.8	7504.0	7490.1	7469.2	7494.7	7560.8	7655.9	7804.2
27.5°	8165.9	8150.9	8152.0	8024.5	7943.4	7917.9	7908.6	8051.2	8182.2	8247.1	8467.3
30°	8578.6	8541.5	8525.3	8416.3	8379.2	8361.9	8357.2	8590.2	8834.8	9013.4	9299.7
32.5°	9307.8	9271.9	9106.1	8839.5	8776.9	8772.2	8783.8	9094.5	9520.0	9848.0	10308.3
35°	10064.8	10046.3	9957.0	9625.5	9252.2	9179.1	9231.3	9638.2	10214.4	10887.9	11465.2
37.5°	10980.7	10947.0	10833.4	10424.2	10006.9	9814.4	9732.1	10163.4	10951.7	12200.2	12908.5
40°	12108.6	11999.7	11814.2	11271.6	10921.5	10744.2	10426.5	10794.0	11861.7	13759.4	14420.2
42.5°	13010.5	12980.4	12734.6	12243.1	11801.4	11587.0	11351.6	11532.5	12965.3	15355.8	15920.3
45°	13728.1	13757.1	13618.0	13186.8	12778.7	12652.3	12509.7	12785.6	14267.2	17075.0	17244.2
47.5°	14423.7	14445.7	14275.3	13970.4	13723.5	13638.9	13692.2	14292.7	15778.9	18526.4	18354.8
50°	15468.2	15382.4	14815.5	14659.0	14522.2	14562.8	14899.0	15635.1	17520.1	19930.3	19388.9
52.5°	17219.9	16895.3	15874.0	15550.5	15627.0	15774.3	16103.5	17007.7	19423.7	21032.7	20239.8
55°	19688.0	19179.1	17983.8	16897.6	16811.8	17032.1	17414.6	18431.3	21069.8	22047.1	20937.7
57.5°	21447.8	21428.0	20759.1	19764.5	18489.3	18519.4	18866.0	19790.0	22407.6	23059.1	21483.7
60°	23132.2	23245.8	23571.5	22969.9	21698.2	21167.2	20773.1	21161.4	23598.2	23864.8	21870.9
62.5°	24487.4	24573.2	25814.7	26001.4	26519.6	25944.6	24177.8	22929.3	24683.3	24368.0	21991.5
65°	24443.3	24428.2	26156.7	27480.6	30128.4	30564.3	29432.8	25300.0	26011.8	24626.5	21841.9
67.5°	22476.0	22423.9	24109.4	27313.7	32408.7	32689.2	32031.9	29019.0	26450.0	24589.4	21315.6
70°	19453.8	19809.7	21206.6	25493.6	33030.1	33178.5	32462.0	30615.3	26350.3	24180.2	20050.8
72.5°	16254.2	16363.2	17994.3	22361.3	31914.8	31960.1	31466.2	30257.1	25687.2	23220.3	17544.5
75°	12789.1	12745.1	14273.0	18055.7	29108.2	29898.9	29687.9	29074.6	24232.3	20490.2	13414.0
77.5°	8980.9	8921.8	10478.7	13938.0	24026.0	25797.4	26972.9	26443.1	20680.3	15380.1	7402.0
80°	4516.5	4884.0	6474.6	9952.4	18726.9	20623.5	21873.2	20971.3	14951.2	8546.2	2222.3
82.5°	1632.3	1701.8	3110.3	6144.2	13130.0	14344.9	15490.2	14021.4	7390.4	2141.2	459.1
85°	783.7	816.1	1274.0	3169.5	8022.2	8652.8	9104.9	5999.2	1378.4	410.4	259.7
87.5°	369.8	388.4	579.6	1263.6	3322.5	3450.0	3239.0	1744.7	241.1	155.3	107.8
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°	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6	5652.6
2.5°	5666.5	5675.8	5690.9	5671.2	5660.7	5670.0	5692.0	5689.7	5703.6	5709.4	5697.8
5°	5689.7	5702.5	5725.7	5721.0	5719.9	5744.2	5773.2	5785.9	5803.3	5805.7	5789.4
7.5°	5738.4	5755.8	5783.6	5795.2	5812.6	5835.8	5876.4	5879.8	5903.0	5898.4	5888.0
10°	5830.0	5853.2	5897.2	5918.1	5922.7	5941.3	5971.4	5965.6	5972.6	5969.1	5952.9
12.5°	5956.4	5984.2	6046.8	6086.2	6073.4	6060.7	6045.6	6016.6	6002.7	5992.3	5977.2
15°	6152.3	6198.6	6272.8	6275.2	6225.3	6159.2	6110.5	6023.6	5969.1	5936.6	5911.1
17.5°	6466.4	6505.9	6611.3	6540.6	6422.4	6289.1	6143.0	5961.0	5814.9	5722.2	5683.9
20°	6846.7	6924.4	7024.0	6874.5	6675.1	6434.0	6170.8	5860.1	5551.8	5350.1	5308.3
22.5°	7340.5	7432.1	7429.8	7188.7	6905.8	6544.1	6176.6	5716.4	5228.3	4843.5	4785.5
25°	7922.5	7961.9	7827.4	7449.5	7036.8	6570.8	6090.8	5476.4	4765.8	4313.7	4281.2
27.5°	8499.8	8501.0	8181.0	7643.1	7046.1	6475.7	5876.4	5059.1	4284.7	3936.9	3898.6
30°	9274.2	9092.2	8507.9	7730.0	6944.1	6239.2	5455.5	4529.3	3880.1	3572.9	3535.8
32.5°	10121.6	9784.3	8789.6	7704.5	6723.8	5855.5	4904.9	4073.7	3555.5	3249.4	3219.3
35°	11163.8	10605.1	9079.4	7588.6	6318.1	5355.9	4383.2	3734.0	3295.8	2958.5	2901.7
37.5°	12450.6	11711.0	9451.6	7390.4	5871.7	4729.8	3947.3	3438.4	3047.7	2666.3	2585.2
40°	13871.9	12870.3	9932.7	7182.9	5366.3	4284.7	3634.3	3264.5	2890.1	2472.7	2395.1
42.5°	15203.9	14106.1	10550.6	6960.3	4904.9	3925.3	3501.0	3242.5	2846.0	2418.2	2326.7
45°	16469.8	15179.6	11181.2	6672.8	4422.6	3649.4	3445.4	3210.0	2807.8	2381.2	2284.9
47.5°	17474.9	16124.4	11755.1	6371.4	3997.2	3451.2	3361.9	3095.3	2717.3	2315.1	2228.1
50°	18398.9	16859.3	12199.1	6100.1	3611.1	3295.8	3205.4	2908.6	2545.8	2222.3	2147.0
52.5°	19116.5	17441.3	12448.3	6068.8	3236.7	3094.1	2986.3	2694.2	2388.1	2093.7	2020.6
55°	19617.3	17845.9	12480.8	5916.9	2913.3	2832.1	2709.2	2507.5	2304.6	2049.6	1987.0
57.5°	19939.5	18001.2	12265.1	5001.1	2579.4	2476.2	2424.0	2373.0	2225.8	1966.1	1918.6
60°	20106.5	17889.9	11750.4	3680.7	2251.3	2136.5	2223.5	2222.3	2104.1	1845.6	1806.2
62.5°	20043.9	17561.9	10721.0	2640.8	1952.2	1960.3	2056.6	2040.3	1871.1	1628.8	1583.6
65°	19589.4	16826.9	8970.5	1908.2	1813.1	1907.0	1982.4	1900.1	1684.4	1452.6	1423.6
67.5°	18611.0	15410.2	6267.0	1691.4	1777.2	1882.7	1956.9	1830.5	1607.9	1364.5	1337.8
70°	16971.8	12871.4	3031.5	1603.3	1711.1	1832.8	1903.5	1759.8	1539.5	1283.3	1242.7
72.5°	13906.7	8953.1	1256.7	1508.2	1629.9	1716.9	1822.4	1682.1	1431.7	1148.8	1116.4
75°	8721.2	4338.0	1043.3	1398.1	1504.7	1590.5	1696.0	1532.6	1243.9	889.2	861.3
77.5°	3797.8	1021.3	983.1	1260.1	1395.8	1449.1	1538.4	1458.4	1139.6	781.4	760.5
80°	735.0	641.1	932.1	1046.8	1201.0	1274.0	1320.4	1268.2	959.9	595.9	497.3
82.5°	419.7	548.3	811.5	780.2	949.4	941.3	1029.4	1037.6	766.3	289.8	259.7
85°	285.2	461.4	544.9	482.3	555.3	570.4	745.4	725.7	521.7	173.9	140.3
87.5°	134.5	140.3	180.8	164.6	219.1	317.6	431.3	386.0	228.4	98.5	83.5
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)