

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: P622455

Luminaire Tested: **PRV-M-C225-D-U-T3-BZ-7030-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-4)  
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-T3-BZ-7030-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53069 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

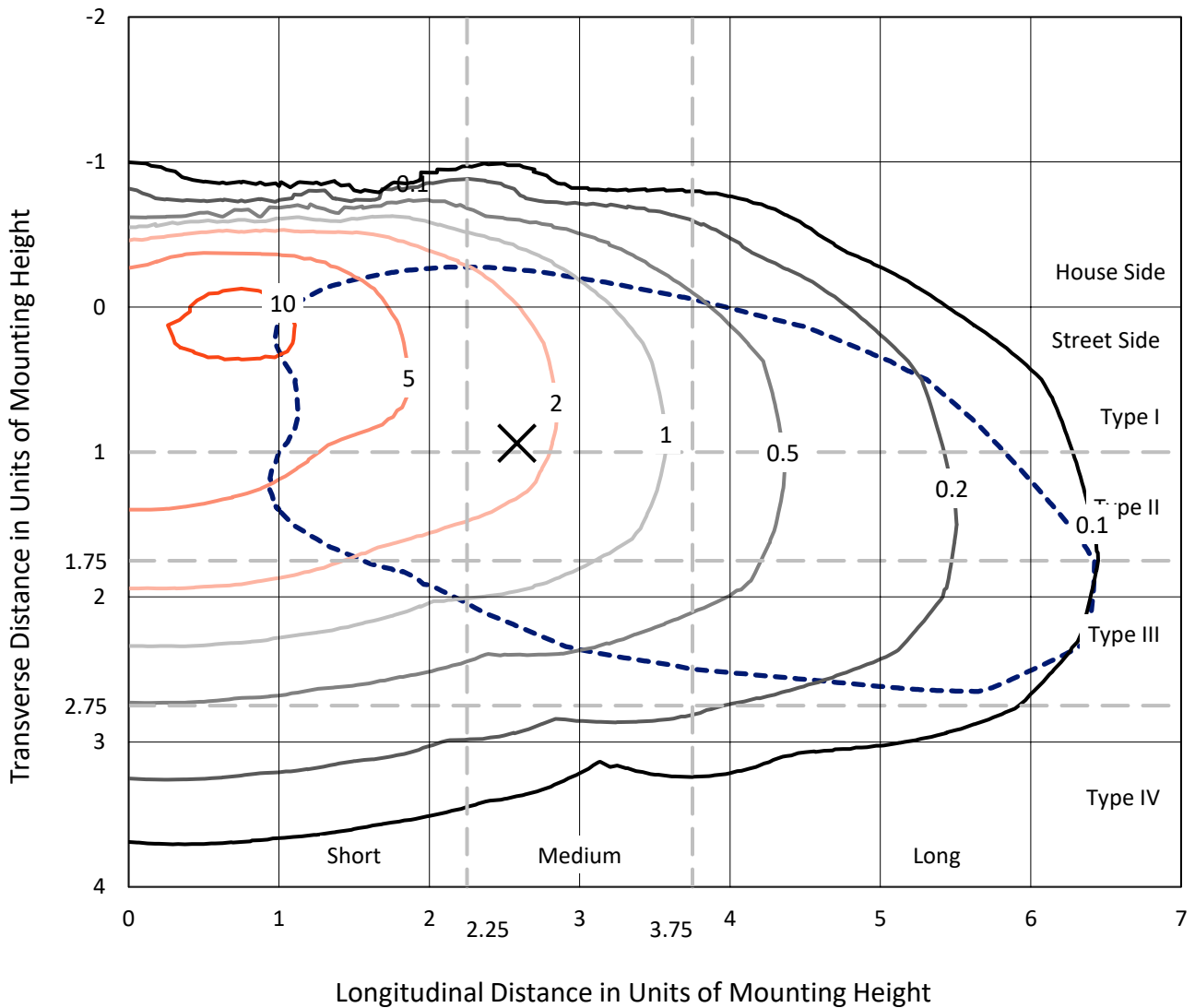
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P622455  
 CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

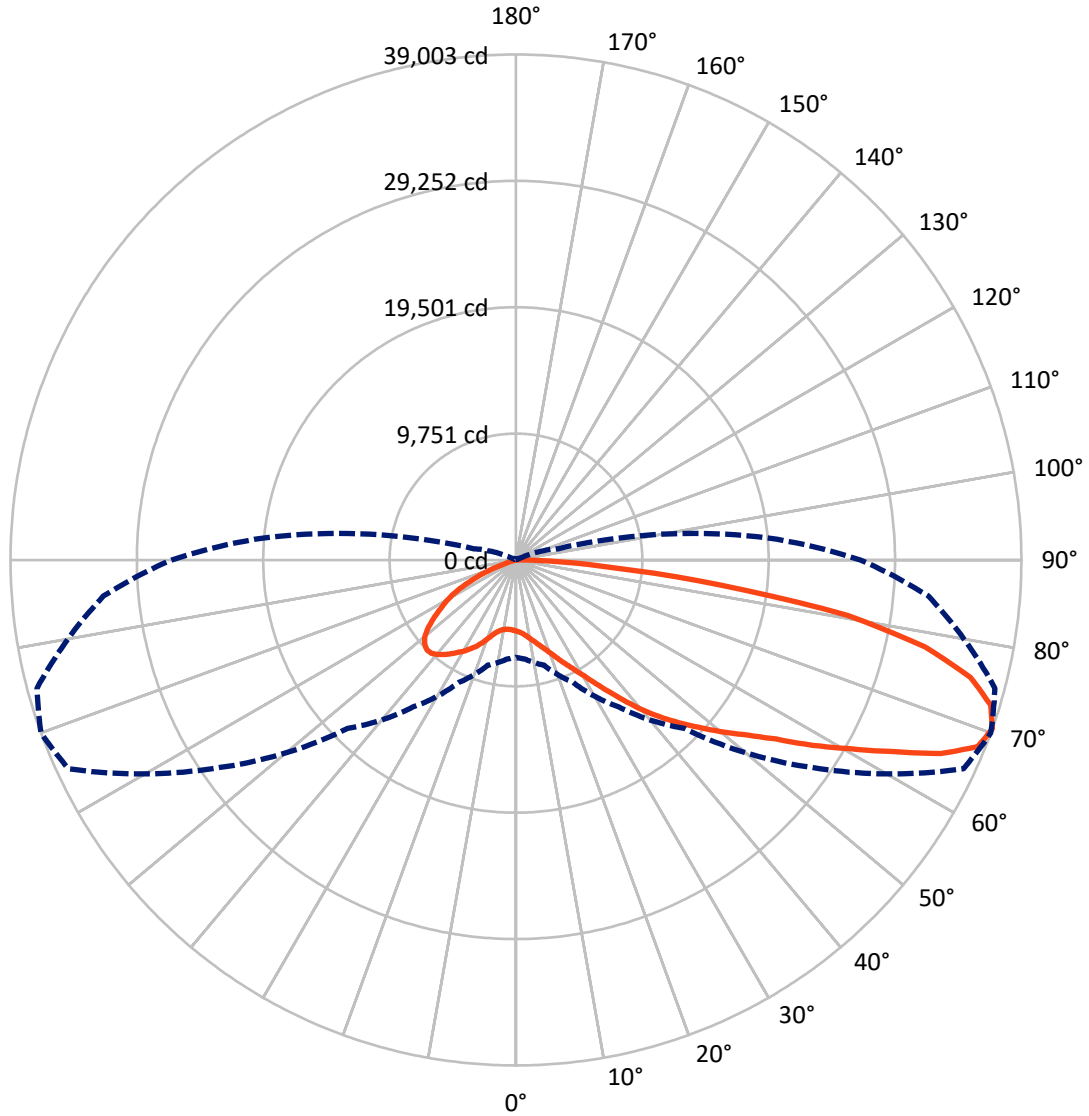
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P622455  
CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-7030-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P622455  
 CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-7030-HSS

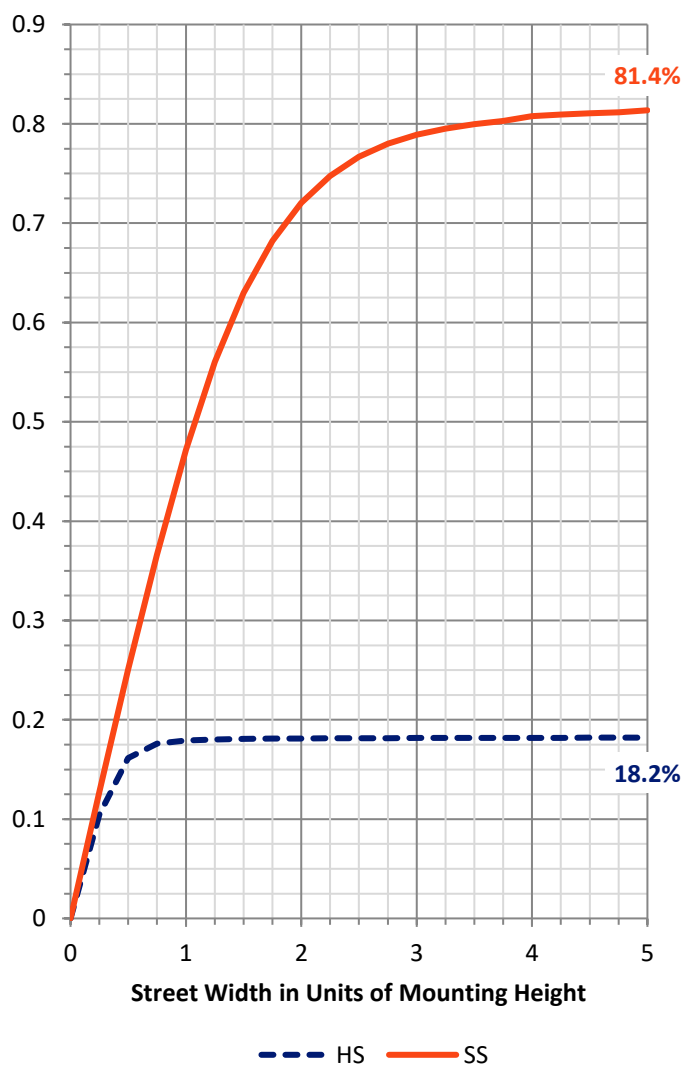
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9769.0	0.0	9769.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	43300.0	0.0	43300.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	53069.0	0.0	53069.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.7	1.0
10°-20°	1644.9	3.1
20°-30°	3030.5	5.7
30°-40°	5061.3	9.5
40°-50°	7896.5	14.9
50°-60°	10830.4	20.4
60°-70°	12854.0	24.2
70°-80°	9475.0	17.9
80°-90°	1748.7	3.3
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°	53069.0	100.0
0°-180°	53069.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P622455

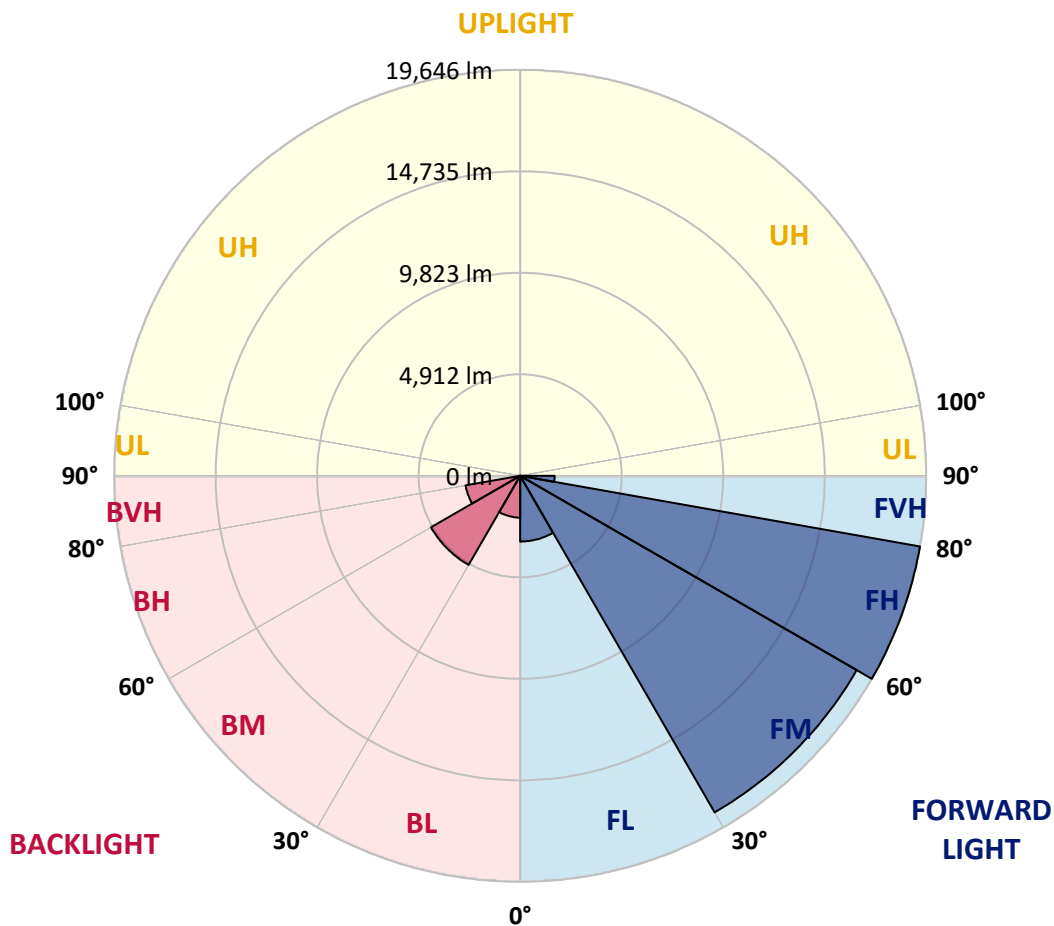
CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-7030-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3180.5	6.0			
FM (30°-60°)	18805.5	35.4			
FH (60°-80°)	19646.2	37.0			G5
FVH (80°-90°)	1667.9	3.1			G5
BL (0°-30°)	2022.6	3.8	B3/2500		
BM (30°-60°)	4982.7	9.4	B3/5000		
BH (60°-80°)	2682.9	5.1	B4/5000		G4/5000
BVH (80°-90°)	80.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





REPORT NUMBER: P622455

CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-7030-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2
2.5°	5728.0	5737.3	5759.3	5716.4	5716.4	5645.7	5641.1	5617.9	5577.3	5562.2	5541.4
5°	5983.0	6000.4	6002.7	5970.3	5945.9	5874.1	5828.9	5782.5	5724.5	5694.4	5629.5
7.5°	6180.1	6192.9	6219.5	6198.7	6184.8	6090.9	6066.5	6006.2	5926.2	5876.4	5772.1
10°	6315.8	6357.5	6379.5	6374.9	6403.9	6335.5	6327.3	6261.3	6181.3	6111.7	5985.4
12.5°	6420.1	6456.0	6502.4	6534.9	6589.3	6588.2	6585.9	6546.5	6475.7	6384.2	6238.1
15°	6497.8	6541.8	6618.3	6694.8	6788.7	6816.6	6896.6	6886.1	6815.4	6735.4	6551.1
17.5°	6675.1	6714.5	6776.0	6867.6	6995.1	7076.2	7209.6	7251.3	7217.7	7135.4	6930.2
20°	6936.0	6945.2	7005.5	7089.0	7230.4	7396.2	7632.7	7738.2	7668.6	7633.9	7439.1
22.5°	7244.3	7272.2	7280.3	7356.8	7495.9	7740.5	8065.1	8240.2	8251.8	8170.6	8028.0
25°	7596.8	7606.0	7589.8	7652.4	7850.6	8135.8	8520.7	8800.1	8872.0	8851.1	8809.4
27.5°	7968.9	8025.7	8026.9	8046.6	8229.7	8540.4	9031.9	9477.1	9571.0	9616.2	9801.7
30°	8889.4	8912.5	8817.5	8647.1	8701.6	9041.2	9616.2	10200.5	10365.1	10561.0	11101.3
32.5°	10060.2	10017.3	9878.2	9569.9	9343.8	9611.6	10233.0	10991.1	11393.4	11835.1	12395.0
35°	11197.5	11167.3	11057.2	10748.8	10359.3	10233.0	10889.1	11911.6	12572.4	13443.0	13911.4
37.5°	12262.9	12293.0	12210.7	11907.0	11461.8	11154.6	11617.1	12877.3	13910.2	15040.5	15435.8
40°	13305.0	13330.6	13302.7	13033.8	12776.4	12339.4	12458.8	13909.0	15310.6	16567.3	16896.5
42.5°	14127.0	14222.0	14325.2	14029.6	13907.9	13644.7	13342.1	14859.6	16676.2	18023.3	18264.4
45°	14819.1	14805.2	14922.2	14932.7	14982.5	14862.0	14474.8	15919.2	18003.6	19413.3	19470.1
47.5°	15319.9	15267.7	15381.3	15705.9	16017.8	15986.5	15787.1	17003.2	19371.6	20737.2	20664.2
50°	15583.0	15586.5	15852.0	16384.1	17005.5	17173.6	17116.8	18558.9	20903.0	22161.9	21889.5
52.5°	15789.4	15877.5	16311.1	17000.8	18008.2	18381.5	18473.1	20486.8	22440.2	23564.7	23047.6
55°	15882.1	16034.0	16524.4	17397.3	18729.3	19497.9	19858.5	22508.6	24385.4	25311.7	24286.9
57.5°	15394.1	15573.8	16318.0	17499.3	19224.3	20350.0	21291.3	24904.8	26977.6	27232.6	25741.8
60°	14247.5	14365.8	15555.2	17288.3	19337.9	21132.5	22939.8	27823.9	29560.5	29499.0	27244.2
62.5°	13123.0	13194.9	14283.5	16489.6	19020.3	21515.1	24619.6	31072.2	32539.8	31901.1	28716.5
65°	11585.8	11699.4	12923.6	15038.2	18019.8	21338.9	26403.7	34497.8	36015.3	35394.0	30319.8
67.5°	9750.7	9868.9	10901.9	12930.6	16391.1	20419.5	27397.3	37096.9	38423.2	37644.1	31432.7
70°	7522.6	7665.2	8404.8	10426.6	13853.4	18389.6	27915.4	38110.2	39002.8	38262.0	31946.3
72.5°	5229.5	5366.3	5819.6	7106.4	10562.2	15443.9	27443.6	37916.6	38303.8	37619.8	30916.8
75°	3360.8	3556.7	3921.8	4749.6	6226.5	11165.0	24584.8	36013.0	36234.4	35216.6	28259.8
77.5°	511.2	583.1	2138.9	2783.4	3926.5	5355.9	17428.6	31870.9	32262.7	31094.2	24538.5
80°	360.5	373.3	922.8	1792.2	2370.7	2993.3	8082.5	23165.9	25962.1	24489.8	17295.3
82.5°	257.4	278.2	438.2	1172.0	1322.7	1147.7	2631.6	13133.5	15758.1	15678.1	9220.9
85°	162.3	179.7	266.6	403.4	714.1	674.7	844.0	5404.6	7357.9	7384.6	3592.6
87.5°	85.8	93.9	155.3	237.7	336.2	375.6	412.7	1541.8	2594.5	2470.4	798.7
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: P622455

CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-7030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2
2.5°	5505.4	5488.0	5452.1	5390.6	5330.4	5288.6	5279.4	5219.1	5212.1	5217.9	5215.6
5°	5575.0	5533.2	5440.5	5317.6	5197.0	5098.5	5029.0	4928.1	4882.9	4866.7	4886.4
7.5°	5700.2	5628.3	5477.6	5288.6	5095.0	4925.8	4790.1	4658.0	4593.1	4544.4	4507.3
10°	5881.0	5782.5	5561.1	5297.9	5031.3	4799.4	4583.8	4396.0	4266.1	4193.1	4171.1
12.5°	6123.3	5988.8	5696.7	5362.8	5015.0	4695.1	4400.6	4136.3	3961.3	3861.6	3843.0
15°	6399.2	6267.1	5919.3	5511.2	5085.8	4675.4	4297.4	3960.1	3676.1	3533.5	3492.9
17.5°	6765.6	6618.3	6242.7	5769.7	5251.5	4726.4	4217.5	3739.8	3342.2	3149.8	3124.3
20°	7279.1	7122.6	6704.1	6112.9	5469.5	4777.4	4102.7	3484.8	2966.6	2708.1	2650.1
22.5°	7888.9	7749.8	7262.9	6472.3	5642.2	4763.5	3921.8	3111.5	2468.1	2172.5	2121.5
25°	8724.7	8590.3	7839.0	6770.2	5729.2	4662.6	3615.8	2603.7	1864.1	1558.1	1538.4
27.5°	9741.4	9445.8	8349.1	7011.3	5696.7	4400.6	3115.0	1893.1	1253.2	1012.1	983.1
30°	10824.2	10355.8	8919.5	7206.1	5605.1	3984.4	2375.4	1247.4	786.0	661.9	636.4
32.5°	12091.3	11460.6	9460.9	7338.2	5395.3	3402.5	1617.2	766.3	497.3	423.1	418.5
35°	13426.8	12623.4	10129.8	7409.0	5016.2	2628.1	925.1	447.5	310.7	302.6	302.6
37.5°	14850.4	13883.5	10855.5	7419.4	4441.2	1727.3	535.6	267.8	238.8	274.7	288.7
40°	16153.4	15024.3	11590.5	7322.0	3709.7	987.7	295.6	204.0	214.5	253.9	266.6
42.5°	17400.8	16127.9	12311.5	7091.3	2660.5	542.5	208.7	178.5	190.1	211.0	215.6
45°	18518.3	17120.2	12857.6	6667.0	1649.7	304.9	189.0	156.5	157.7	172.7	175.1
47.5°	19599.9	18045.3	13203.0	6015.5	853.2	251.6	172.7	141.4	138.0	153.0	157.7
50°	20627.1	18907.8	13407.1	5125.2	439.4	233.0	163.5	129.8	131.0	160.0	162.3
52.5°	21621.7	19730.9	13458.1	3855.8	303.7	209.8	149.5	121.7	126.4	165.8	171.6
55°	22691.7	20593.4	13344.5	2312.8	286.3	192.4	135.6	110.1	119.4	134.5	136.8
57.5°	23671.3	21449.0	12922.5	980.8	271.3	176.2	122.9	100.9	96.2	109.0	113.6
60°	24754.1	22262.8	11916.2	462.6	252.7	157.7	110.1	89.3	82.3	90.4	95.1
62.5°	26267.0	22873.7	10200.5	347.8	237.7	146.1	98.5	81.1	74.2	78.8	83.5
65°	27086.6	22932.9	7966.6	303.7	226.1	136.8	90.4	76.5	66.1	68.4	73.0
67.5°	27401.9	21767.8	5776.7	264.3	209.8	127.5	83.5	71.9	61.4	59.1	61.4
70°	26581.1	19523.4	3357.3	243.4	190.1	118.2	78.8	69.6	56.8	49.8	49.8
72.5°	24188.4	16444.4	1391.1	216.8	169.3	105.5	74.2	71.9	54.5	39.4	39.4
75°	20833.4	12813.5	415.0	179.7	144.9	96.2	74.2	74.2	53.3	30.1	30.1
77.5°	16542.9	7988.6	246.9	140.3	114.8	85.8	73.0	70.7	40.6	23.2	22.0
80°	9402.9	2834.4	179.7	104.3	88.1	70.7	64.9	58.0	30.1	19.7	19.7
82.5°	3757.2	642.2	127.5	74.2	71.9	54.5	42.9	33.6	24.3	17.4	17.4
85°	985.4	202.9	76.5	48.7	44.1	40.6	15.1	13.9	19.7	16.2	16.2
87.5°	162.3	81.1	40.6	37.1	27.8	19.7	7.0	7.0	11.6	13.9	15.1
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)