

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: P622460

Luminaire Tested: **PRV-M-C225-D-U-T3-BZ-7050**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-3)
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-7050
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60309 lumens
Efficiency: N/A
Efficacy: 144.2 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

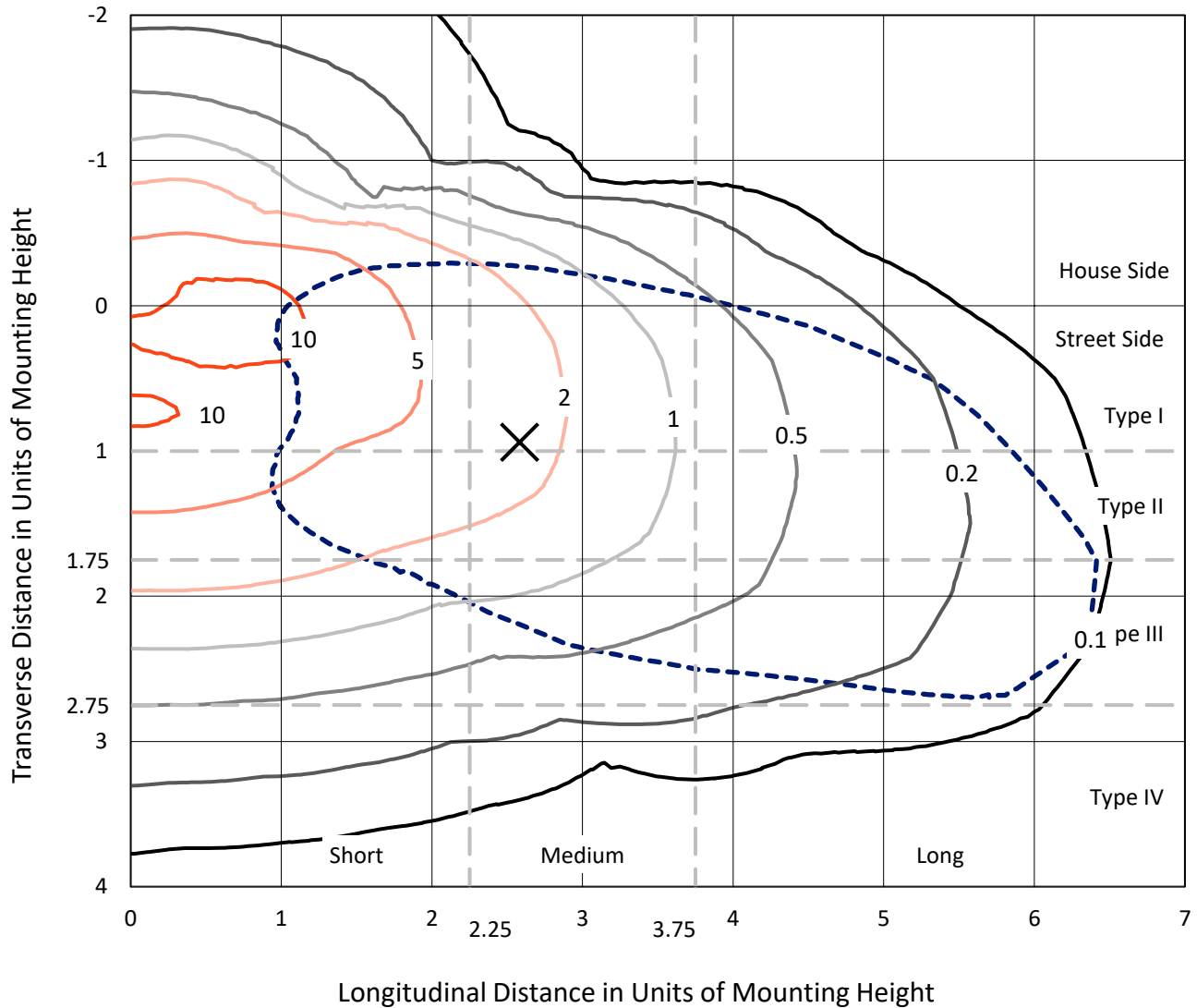
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

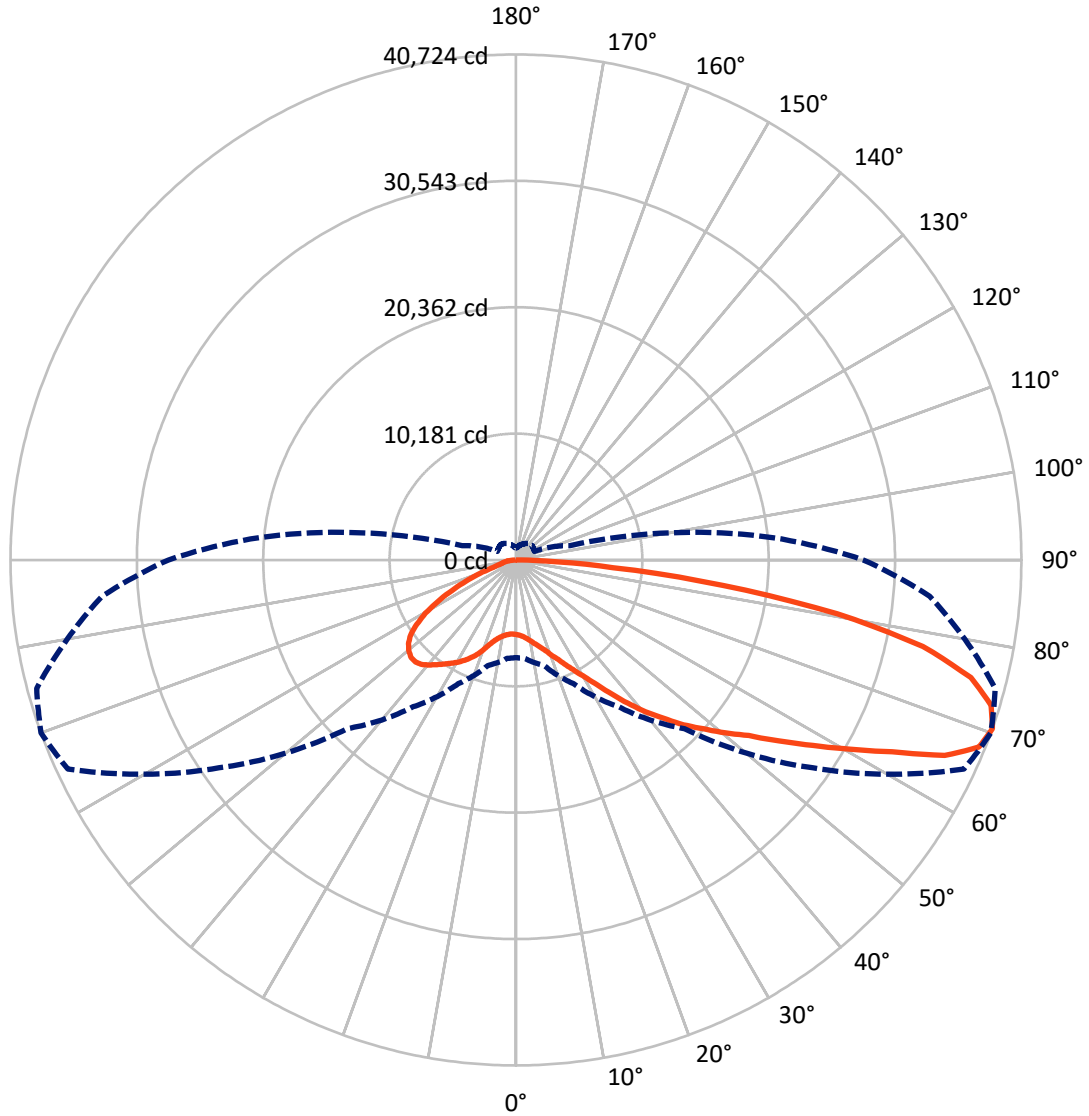
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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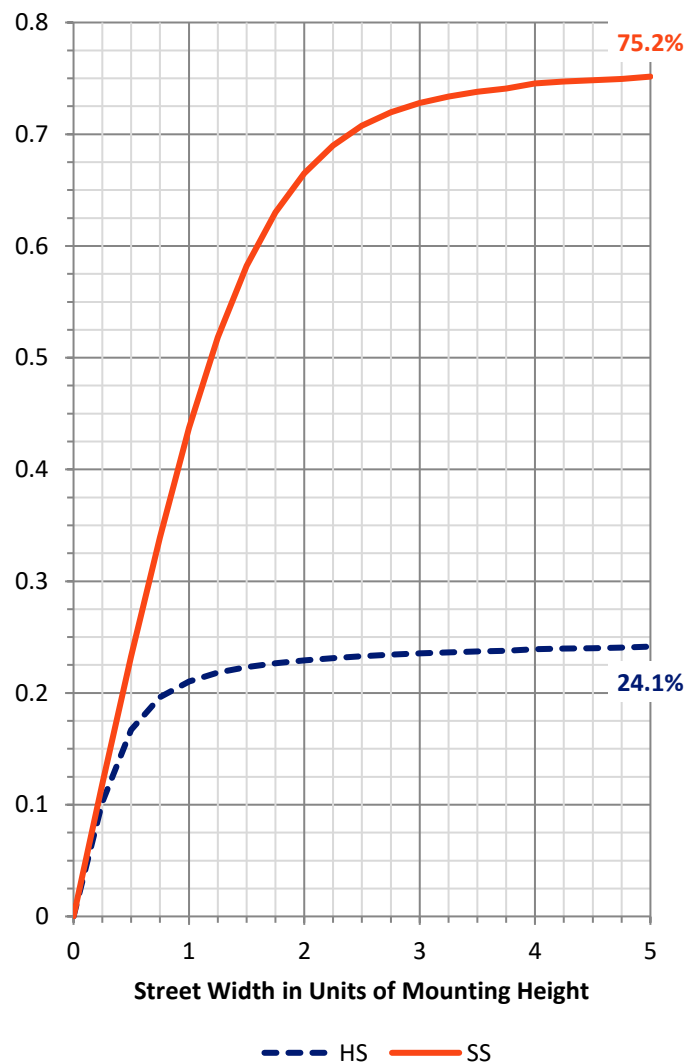
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14845.5	0.0	14845.5
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	45463.6	0.0	45463.6
	% Fixture	75.4	0.0	75.4
Total	Lumens	60309.0	0.0	60309.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.4	1.0
10°-20°	1903.6	3.2
20°-30°	3595.2	6.0
30°-40°	6006.1	10.0
40°-50°	9172.6	15.2
50°-60°	12222.0	20.3
60°-70°	14103.7	23.4
70°-80°	10529.0	17.5
80°-90°	2188.3	3.6
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°	60309.0	100.0
0°-180°	60309.0	100.0



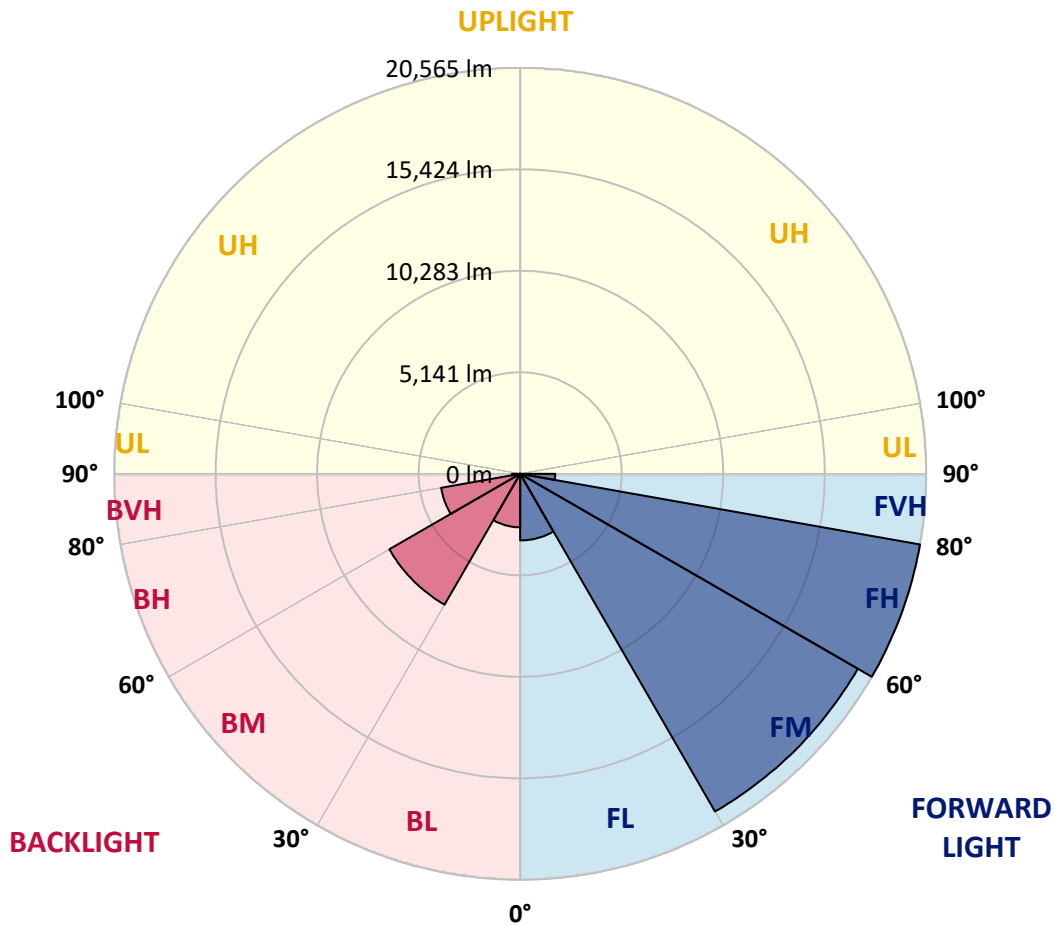
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3376.0	5.6			
FM (30°-60°)	19747.9	32.7			
FH (60°-80°)	20565.5	34.1			G5
FVH (80°-90°)	1774.1	2.9			G5
BL (0°-30°)	2711.1	4.5	B4/5000		
BM (30°-60°)	7652.9	12.7	B4/8500		
BH (60°-80°)	4067.3	6.7	B4/5000		G4/5000
BVH (80°-90°)	414.2	0.7			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8
2.5°	6179.7	6191.7	6219.4	6176.1	6178.5	6128.0	6122.0	6107.6	6070.3	6060.7	6052.3
5°	6403.3	6431.0	6433.4	6403.3	6388.9	6307.2	6295.1	6263.9	6205.0	6178.5	6148.5
7.5°	6583.7	6608.9	6636.6	6613.7	6605.3	6535.6	6518.8	6459.8	6392.5	6354.0	6298.7
10°	6717.1	6758.0	6780.9	6788.1	6819.3	6765.2	6758.0	6714.7	6649.8	6584.9	6528.4
12.5°	6820.5	6861.4	6901.1	6938.4	7010.5	7012.9	7027.3	7006.9	6949.2	6878.2	6790.5
15°	6905.9	6940.8	7016.5	7095.9	7207.7	7254.6	7338.7	7331.5	7284.6	7207.7	7113.9
17.5°	7056.2	7105.5	7171.6	7270.2	7408.4	7503.4	7677.8	7731.9	7666.9	7641.7	7527.5
20°	7313.5	7337.5	7400.0	7483.0	7638.1	7824.4	8068.5	8211.6	8177.9	8153.9	8027.6
22.5°	7617.6	7641.7	7658.5	7737.9	7919.4	8195.9	8532.6	8739.4	8699.7	8709.3	8628.8
25°	7951.9	7985.5	7971.1	8040.8	8257.3	8553.0	9003.9	9329.7	9380.2	9410.2	9474.0
27.5°	8423.2	8467.7	8434.0	8455.6	8638.4	9008.7	9534.1	9987.3	10104.0	10155.7	10574.0
30°	9279.2	9323.7	9252.7	9037.5	9125.3	9518.4	10132.8	10740.0	10934.7	11193.2	11795.6
32.5°	10542.8	10539.2	10384.1	10005.4	9801.0	10091.9	10776.0	11590.0	11957.9	12501.3	13204.6
35°	11804.0	11735.4	11609.2	11247.3	10843.4	10758.0	11455.3	12491.7	13247.9	14096.7	14813.3
37.5°	12955.8	12964.2	12875.2	12587.9	12119.0	11758.3	12212.8	13513.6	14643.8	15808.8	16348.6
40°	14002.9	14021.0	13975.3	13761.3	13437.9	13009.9	13030.3	14583.6	16081.7	17453.5	17898.3
42.5°	14761.6	14871.0	15018.9	14804.9	14701.5	14305.9	14025.8	15557.5	17413.8	18926.3	19231.7
45°	15440.9	15454.1	15580.3	15682.5	15822.0	15677.7	15243.7	16654.0	18941.9	20400.3	20589.0
47.5°	15937.4	15897.7	16044.4	16403.9	16887.2	16924.5	16619.1	17940.4	20314.9	21760.0	21800.9
50°	16198.3	16209.1	16548.2	17082.0	17910.4	18167.6	18120.7	19533.4	21898.3	23166.7	23003.2
52.5°	16394.3	16480.8	16960.6	17686.7	18830.1	19374.7	19538.2	21464.3	23484.1	24657.5	24370.2
55°	16495.3	16632.3	17162.5	18109.9	19535.8	20514.5	20887.2	23675.3	25724.0	26530.7	25659.0
57.5°	15975.9	16115.3	16937.7	18202.5	20038.4	21362.1	22442.9	26240.9	28185.0	28548.1	27337.4
60°	14789.2	14929.9	16139.4	17966.9	20128.6	22143.6	24176.6	29293.5	30962.3	30892.6	28700.8
62.5°	13617.0	13659.1	14879.4	17131.3	19767.9	22485.0	26094.3	32647.9	34025.7	33663.8	30222.9
65°	12033.6	12127.4	13362.1	15547.9	18756.8	22277.0	27635.6	36016.7	37968.0	36913.6	31778.6
67.5°	10162.9	10313.1	11406.0	13617.0	16908.9	21314.0	28686.4	38816.8	40236.7	39374.6	33011.0
70°	7866.5	7954.3	8810.3	10993.6	14437.0	19213.6	29207.0	39835.1	40723.6	39972.2	33457.0
72.5°	5597.8	5529.3	6083.5	7592.4	10897.5	16100.9	28596.2	39615.1	40041.9	39129.4	32377.4
75°	3826.9	3669.4	4120.2	4917.3	6408.1	11454.1	25536.4	37677.0	37852.6	36658.7	29736.0
77.5°	2012.6	2036.7	2290.3	3063.4	4150.3	5442.7	18308.3	33162.5	33530.4	32791.0	25142.1
80°	435.2	473.7	1567.8	1920.0	2462.3	3223.3	8158.7	24971.3	26279.4	25796.1	18279.5
82.5°	288.5	305.4	996.7	1270.8	1431.9	1631.5	2943.2	14286.7	16777.8	16132.2	9786.6
85°	171.9	182.7	377.5	497.7	739.4	716.6	1084.5	5844.3	7853.3	7594.8	3527.5
87.5°	72.1	76.9	134.7	215.2	297.0	363.1	373.9	1554.5	2413.0	2451.4	765.9
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°	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8	6007.8
2.5°	6027.0	6015.0	6000.6	5953.7	5914.0	5896.0	5876.7	5846.7	5850.3	5862.3	5838.3
5°	6102.8	6076.3	6029.4	5956.1	5880.3	5828.6	5791.4	5742.1	5721.6	5719.2	5700.0
7.5°	6243.4	6209.8	6125.6	6010.2	5904.4	5823.8	5756.5	5683.2	5637.5	5625.5	5602.6
10°	6456.2	6398.5	6277.1	6123.2	5986.1	5870.7	5763.7	5647.1	5570.2	5534.1	5507.6
12.5°	6702.7	6640.2	6475.5	6297.5	6124.4	5957.3	5799.8	5627.9	5510.0	5447.5	5409.1
15°	7040.5	6945.6	6776.0	6574.1	6357.7	6128.0	5904.4	5648.3	5443.9	5323.7	5281.6
17.5°	7456.5	7348.3	7186.0	6956.4	6684.7	6361.3	6009.0	5625.5	5294.8	5115.7	5078.4
20°	7954.3	7915.8	7743.9	7446.9	7029.7	6575.3	6073.9	5560.5	5104.9	4841.6	4781.5
22.5°	8623.9	8627.6	8413.5	7896.6	7350.7	6706.3	6083.5	5417.5	4821.1	4517.0	4471.3
25°	9506.4	9504.0	8991.8	8268.1	7528.7	6749.6	5998.2	5153.0	4490.5	4150.3	4091.4
27.5°	10529.6	10352.8	9570.1	8551.8	7565.9	6665.4	5755.3	4758.6	4107.0	3780.0	3727.1
30°	11664.5	11330.3	10146.0	8759.8	7514.2	6428.6	5312.9	4327.0	3802.8	3487.8	3427.7
32.5°	12990.6	12419.5	10738.8	8875.2	7372.4	6096.8	4781.5	4099.8	3620.1	3267.8	3192.1
35°	14392.5	13716.8	11396.4	8928.1	7069.4	5535.3	4375.1	3938.7	3474.6	3080.2	3011.7
37.5°	15838.8	15022.5	12162.3	8947.4	6683.5	4832.0	4131.0	3759.5	3290.6	2940.8	2892.7
40°	17256.3	16238.0	12976.2	8941.3	6114.8	4315.0	3918.2	3525.1	3134.3	2821.7	2766.4
42.5°	18544.0	17365.7	13798.6	8860.8	5443.9	4049.3	3715.0	3370.0	2998.5	2646.2	2576.5
45°	19745.0	18393.7	14461.0	8605.9	4686.5	3799.2	3486.6	3183.6	2826.6	2465.9	2390.1
47.5°	20804.2	19385.5	14908.3	8158.7	4085.3	3547.9	3211.3	2960.0	2651.0	2307.2	2247.1
50°	21898.3	20314.9	15258.1	7414.5	3628.5	3251.0	2934.8	2709.9	2463.5	2185.7	2131.6
52.5°	23014.0	21416.2	15721.0	6253.1	3190.8	2949.2	2628.2	2384.1	2220.6	2037.9	1986.2
55°	24250.0	22548.7	16091.3	4775.5	2786.9	2667.9	2322.8	2064.3	1924.8	1819.0	1804.6
57.5°	25304.4	23498.5	15736.6	3303.9	2500.7	2385.3	2040.3	1774.6	1629.1	1606.2	1642.3
60°	26482.6	24263.2	14427.3	2492.3	2290.3	2046.3	1757.7	1543.7	1465.6	1399.5	1400.7
62.5°	27849.6	24684.0	12149.0	2112.4	2061.9	1801.0	1579.8	1429.5	1355.0	1246.8	1216.7
65°	28626.3	24521.7	9508.8	1894.8	1853.9	1718.1	1550.9	1393.4	1279.2	1131.3	1106.1
67.5°	28888.4	23247.3	7036.9	1738.5	1742.1	1725.3	1578.6	1381.4	1244.4	1074.8	1054.4
70°	27996.3	20756.1	4496.5	1650.7	1695.2	1743.3	1639.9	1425.9	1244.4	1001.5	982.3
72.5°	25674.7	17645.8	2340.8	1522.1	1665.2	1734.9	1714.4	1517.3	1199.9	907.7	888.5
75°	21938.0	13840.6	1321.3	1391.0	1606.2	1716.9	1751.7	1511.3	1103.7	771.9	745.4
77.5°	17472.7	8654.0	1059.2	1246.8	1496.8	1590.6	1702.4	1546.1	1126.5	751.4	721.4
80°	9997.0	3350.8	860.8	1049.6	1260.0	1460.8	1630.3	1487.2	1046.0	691.3	662.5
82.5°	3941.1	1027.9	682.9	834.4	1026.7	1181.8	1441.5	1357.4	952.2	508.6	474.9
85°	1032.8	425.6	467.7	573.5	719.0	860.8	1181.8	1100.1	773.1	394.3	371.5
87.5°	147.9	117.8	145.5	222.4	408.8	610.8	785.1	669.7	514.6	300.6	268.1
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)