

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: P622502

Luminaire Tested: **PRV-M-C250-D-U-T3-BZ-7050**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622502
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-C250-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: 69444 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

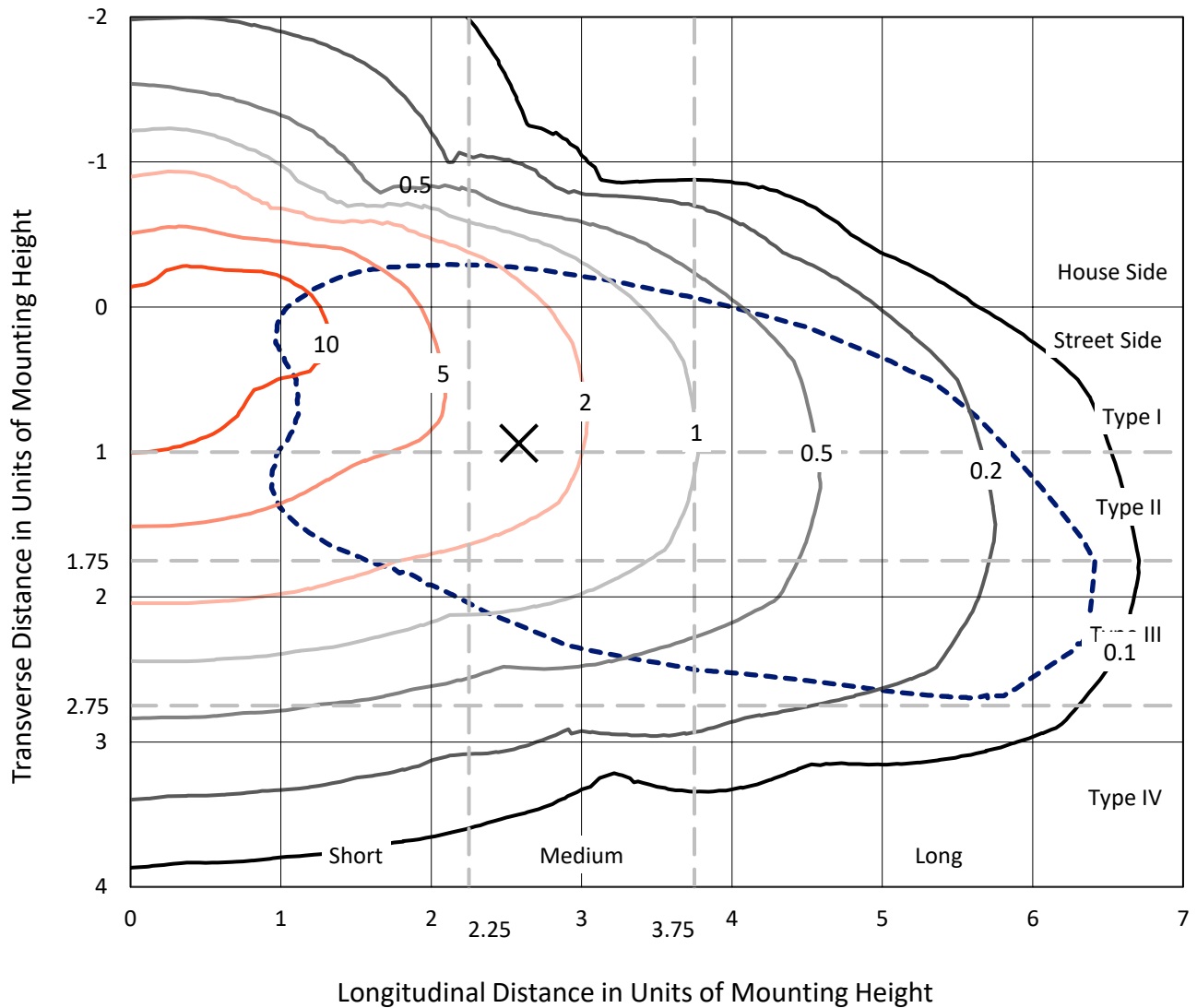
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

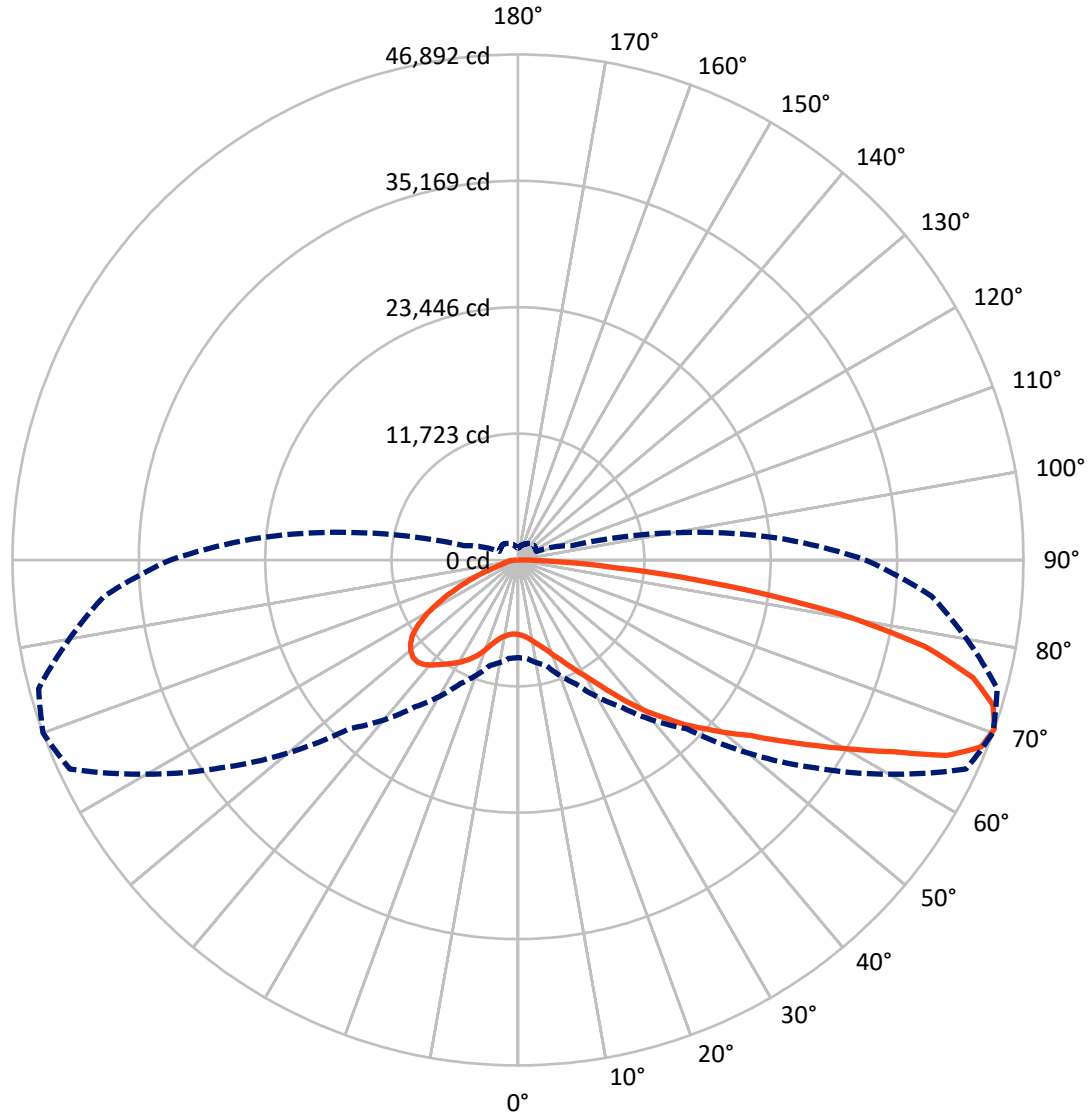
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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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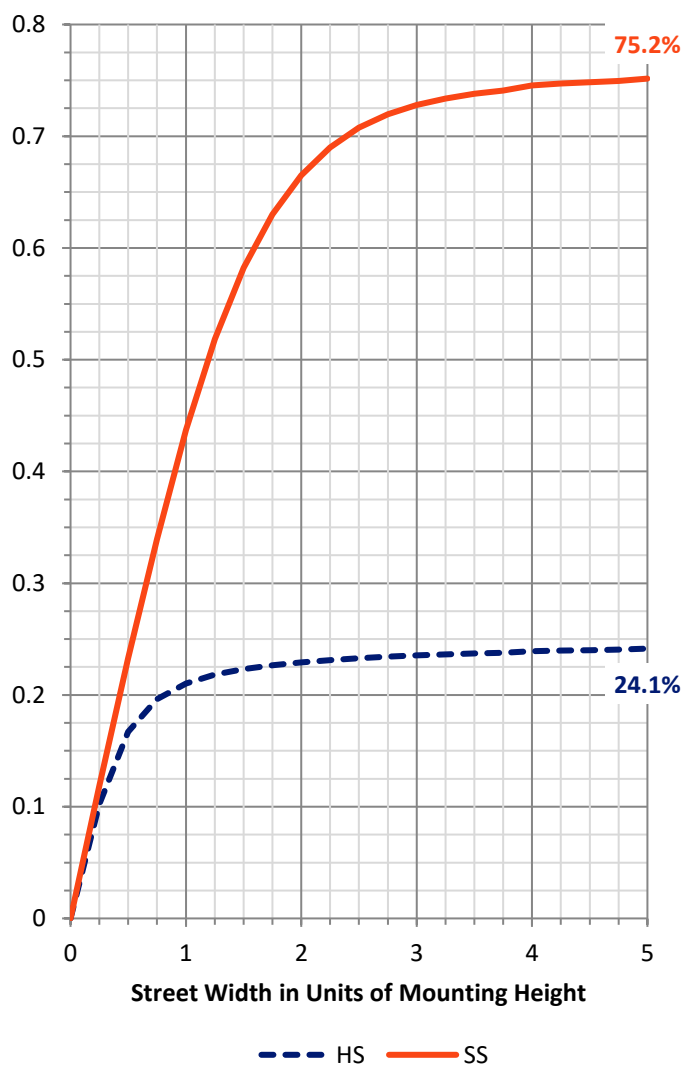
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17094.1	0.0	17094.1
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	52349.9	0.0	52349.9
	% Fixture	75.4	0.0	75.4
Total	Lumens	69444.0	0.0	69444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.5	1.0
10°-20°	2191.9	3.2
20°-30°	4139.7	6.0
30°-40°	6915.9	10.0
40°-50°	10562.0	15.2
50°-60°	14073.3	20.3
60°-70°	16240.0	23.4
70°-80°	12123.9	17.5
80°-90°	2519.8	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°	69444.0	100.0
0°-180°	69444.0	100.0

Coefficient of Utilization

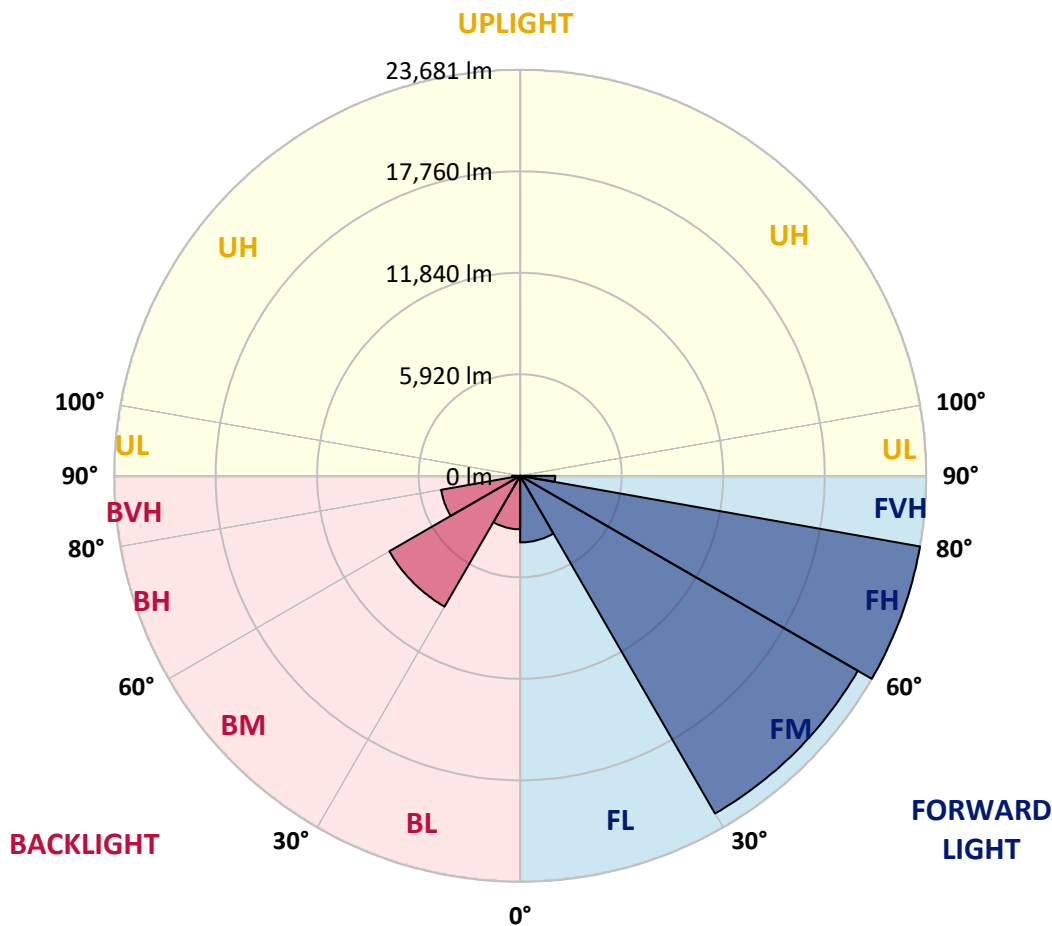


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3887.4	5.6			
FM (30°-60°)	22739.1	32.7			
FH (60°-80°)	23680.5	34.1			G5
FVH (80°-90°)	2042.9	2.9			G5
BL (0°-30°)	3121.8	4.5	B4/5000		
BM (30°-60°)	8812.0	12.7	B5		
BH (60°-80°)	4683.4	6.7	B4/5000		G4/5000
BVH (80°-90°)	476.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8
2.5°	7115.8	7129.6	7161.4	7111.6	7114.4	7056.2	7049.3	7032.7	6989.8	6978.7	6969.0
5°	7373.3	7405.1	7407.9	7373.3	7356.6	7262.5	7248.7	7212.7	7144.8	7114.4	7079.8
7.5°	7580.9	7610.0	7641.8	7615.5	7605.8	7525.5	7506.2	7438.3	7360.8	7316.5	7252.8
10°	7734.6	7781.6	7807.9	7816.3	7852.2	7790.0	7781.6	7731.8	7657.1	7582.3	7517.2
12.5°	7853.6	7900.7	7946.4	7989.3	8072.4	8075.1	8091.7	8068.2	8001.8	7920.1	7819.0
15°	7951.9	7992.1	8079.3	8170.7	8299.4	8353.4	8450.3	8442.0	8388.0	8299.4	8191.4
17.5°	8125.0	8181.7	8257.9	8371.4	8530.6	8640.0	8840.7	8903.0	8828.2	8799.2	8667.7
20°	8421.2	8448.9	8520.9	8616.4	8795.0	9009.6	9290.6	9455.4	9416.6	9388.9	9243.6
22.5°	8771.5	8799.2	8818.6	8909.9	9119.0	9437.4	9825.0	10063.1	10017.4	10028.5	9935.8
25°	9156.3	9195.1	9178.5	9258.8	9508.0	9848.5	10367.7	10742.9	10801.0	10835.6	10909.0
27.5°	9699.0	9750.2	9711.5	9736.4	9946.8	10373.2	10978.2	11500.1	11634.4	11693.9	12175.7
30°	10684.7	10735.9	10654.3	10406.4	10507.5	10960.2	11667.6	12366.7	12591.0	12888.7	13582.2
32.5°	12139.7	12135.5	11957.0	11520.9	11285.5	11620.6	12408.3	13345.5	13769.1	14394.9	15204.7
35°	13591.9	13513.0	13367.7	12951.0	12485.8	12387.5	13190.5	14383.8	15254.6	16232.0	17057.0
37.5°	14918.2	14927.9	14825.4	14494.5	13954.6	13539.3	14062.6	15560.5	16861.8	18203.3	18824.9
40°	16124.0	16144.7	16092.1	15845.7	15473.3	14980.5	15004.0	16792.6	18517.6	20097.2	20609.4
42.5°	16997.5	17123.5	17293.8	17047.4	16928.3	16472.8	16150.3	17914.0	20051.5	21793.0	22144.7
45°	17779.7	17794.9	17940.3	18058.0	18218.5	18052.4	17552.7	19176.5	21811.0	23490.3	23707.6
47.5°	18351.4	18305.8	18474.7	18888.6	19445.1	19488.0	19136.4	20657.8	23392.0	25056.0	25103.1
50°	18651.9	18664.3	19054.7	19669.4	20623.2	20919.5	20865.5	22492.2	25215.2	26675.8	26487.5
52.5°	18877.5	18977.2	19529.6	20365.7	21682.3	22309.4	22497.7	24715.5	27041.3	28392.4	28061.5
55°	18993.8	19151.6	19762.1	20853.0	22494.9	23621.8	24051.0	27261.4	29620.4	30549.3	29545.6
57.5°	18395.7	18556.3	19503.3	20959.6	23073.6	24597.8	25842.4	30215.7	32454.2	32872.3	31478.2
60°	17029.4	17191.3	18584.0	20688.3	23177.4	25497.7	27838.7	33730.6	35652.1	35571.9	33048.1
62.5°	15679.6	15728.0	17133.2	19726.1	22762.1	25890.8	30046.8	37593.1	39179.6	38762.9	34800.7
65°	13856.3	13964.3	15386.1	17902.9	21597.8	25651.3	31821.5	41472.1	43719.0	42504.9	36592.1
67.5°	11702.2	11875.3	13133.7	15679.6	19470.0	24542.4	33031.5	44696.4	46331.3	45338.7	38011.1
70°	9058.1	9159.1	10144.8	12658.8	16623.7	22123.9	33630.9	45868.9	46892.0	46026.8	38524.8
72.5°	6445.7	6366.8	7005.0	8742.4	12548.1	18539.7	32927.7	45615.6	46107.0	45056.3	37281.6
75°	4406.5	4225.2	4744.3	5662.1	7378.8	13189.1	29404.4	43384.0	43586.1	42211.4	34240.1
77.5°	2317.5	2345.2	2637.3	3527.4	4778.9	6267.1	21081.5	38185.6	38609.2	37757.8	28950.3
80°	501.1	545.4	1805.2	2210.9	2835.2	3711.5	9394.5	28753.7	30260.0	29703.4	21048.2
82.5°	332.3	351.6	1147.7	1463.3	1648.8	1878.6	3389.0	16450.7	19319.1	18575.7	11268.9
85°	198.0	210.4	434.7	573.1	851.4	825.1	1248.7	6729.5	9042.8	8745.2	4061.8
87.5°	83.1	88.6	155.1	247.8	341.9	418.1	430.5	1790.0	2778.5	2822.8	881.9
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°	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8	6917.8
2.5°	6939.9	6926.1	6909.5	6855.5	6809.8	6789.0	6766.9	6732.3	6736.4	6750.3	6722.6
5°	7027.2	6996.7	6942.7	6858.3	6771.0	6711.5	6668.6	6611.8	6588.3	6585.5	6563.4
7.5°	7189.1	7150.4	7053.5	6920.6	6798.7	6706.0	6628.5	6544.0	6491.4	6477.6	6451.2
10°	7434.2	7367.7	7227.9	7050.7	6892.9	6760.0	6636.8	6502.5	6413.9	6372.3	6341.9
12.5°	7718.0	7646.0	7456.3	7251.4	7052.1	6859.6	6678.3	6480.3	6344.7	6272.7	6228.4
15°	8107.0	7997.6	7802.4	7569.8	7320.6	7056.2	6798.7	6503.9	6268.5	6130.1	6081.6
17.5°	8586.0	8461.4	8274.5	8010.1	7697.2	7324.8	6919.2	6477.6	6096.8	5890.6	5847.7
20°	9159.1	9114.8	8916.8	8574.9	8094.5	7571.2	6993.9	6402.8	5878.1	5574.9	5505.7
22.5°	9930.2	9934.4	9687.9	9092.7	8464.1	7722.1	7005.0	6238.1	5551.4	5201.1	5148.5
25°	10946.4	10943.6	10353.8	9520.4	8669.0	7772.0	6906.7	5933.5	5170.7	4778.9	4711.1
27.5°	12124.5	11921.0	11019.7	9847.2	8712.0	7675.0	6627.1	5479.4	4729.1	4352.5	4291.6
30°	13431.3	13046.5	11682.9	10086.7	8652.4	7402.3	6117.6	4982.4	4378.8	4016.1	3946.9
32.5°	14958.3	14300.7	12365.4	10219.6	8489.1	7020.2	5505.7	4720.8	4168.4	3762.8	3675.6
35°	16572.5	15794.5	13122.6	10280.5	8140.2	6373.7	5037.8	4535.3	4000.9	3546.8	3467.9
37.5°	18237.9	17297.9	14004.5	10302.6	7695.8	5563.9	4756.8	4329.0	3789.1	3386.2	3330.8
40°	19870.1	18697.5	14941.7	10295.7	7041.0	4968.6	4511.7	4059.0	3609.1	3249.2	3185.5
42.5°	21352.8	19996.1	15888.6	10202.9	6268.5	4662.6	4277.8	3880.4	3452.7	3047.0	2966.7
45°	22735.8	21179.8	16651.4	9909.5	5396.3	4374.7	4014.7	3665.9	3254.7	2839.4	2752.2
47.5°	23955.5	22321.9	17166.4	9394.5	4704.2	4085.3	3697.7	3408.4	3052.6	2656.6	2587.4
50°	25215.2	23392.0	17569.3	8537.5	4178.1	3743.4	3379.3	3120.4	2836.6	2516.8	2454.5
52.5°	26500.0	24660.1	18102.3	7200.2	3674.2	3395.9	3026.3	2745.2	2557.0	2346.5	2287.0
55°	27923.1	25964.2	18528.7	5498.8	3209.0	3072.0	2674.6	2377.0	2216.4	2094.6	2078.0
57.5°	29137.2	27057.9	18120.3	3804.3	2879.5	2746.6	2349.3	2043.4	1875.8	1849.5	1891.1
60°	30493.9	27938.3	16612.7	2869.8	2637.3	2356.2	2024.0	1777.6	1687.6	1611.4	1612.8
62.5°	32068.0	28422.9	13989.2	2432.4	2374.2	2073.8	1819.1	1646.0	1560.2	1435.6	1401.0
65°	32962.3	28236.0	10949.1	2181.8	2134.7	1978.3	1785.9	1604.5	1473.0	1302.7	1273.6
67.5°	33264.1	26768.5	8102.8	2001.8	2006.0	1986.6	1817.7	1590.7	1432.8	1237.6	1214.1
70°	32236.9	23900.1	5177.6	1900.8	1952.0	2007.4	1888.3	1641.9	1432.8	1153.2	1131.0
72.5°	29563.6	20318.7	2695.4	1752.6	1917.4	1997.7	1974.1	1747.1	1381.6	1045.2	1023.1
75°	25260.9	15937.1	1521.4	1601.7	1849.5	1976.9	2017.1	1740.2	1270.9	888.8	858.3
77.5°	20119.3	9964.8	1219.6	1435.6	1723.6	1831.5	1960.3	1780.3	1297.2	865.2	830.6
80°	11511.2	3858.3	991.2	1208.6	1450.8	1682.0	1877.2	1712.5	1204.4	796.0	762.8
82.5°	4538.0	1183.7	786.3	960.8	1182.3	1360.9	1659.9	1563.0	1096.4	585.6	546.8
85°	1189.2	490.1	538.5	660.4	827.9	991.2	1360.9	1266.7	890.2	454.1	427.8
87.5°	170.3	135.7	167.5	256.1	470.7	703.3	904.0	771.1	592.5	346.1	308.7
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)