

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: P622552

Luminaire Tested: **PRV-M-C275-D-U-T4-BZ-7030**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622552
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-C275-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: 78235 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

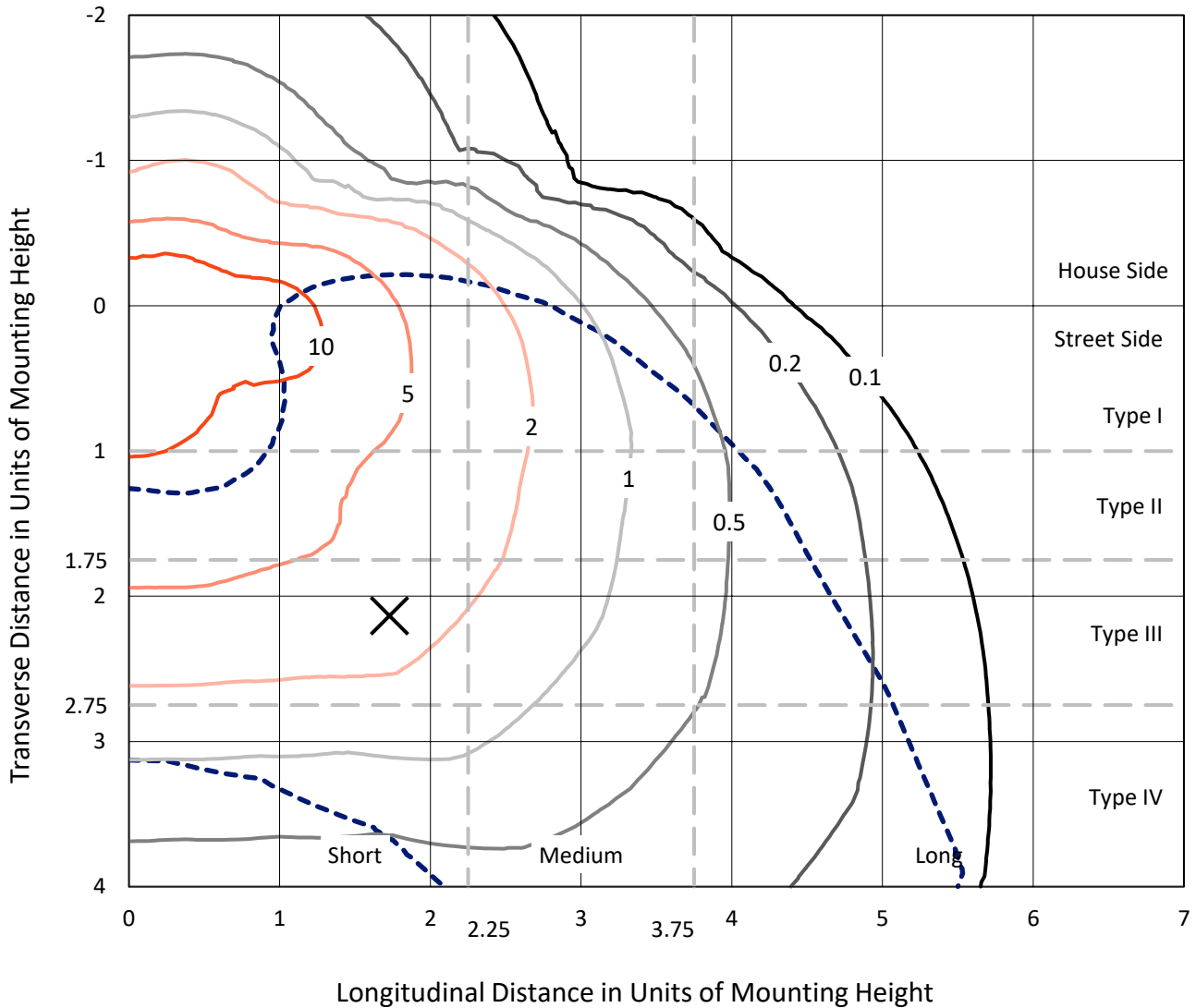
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

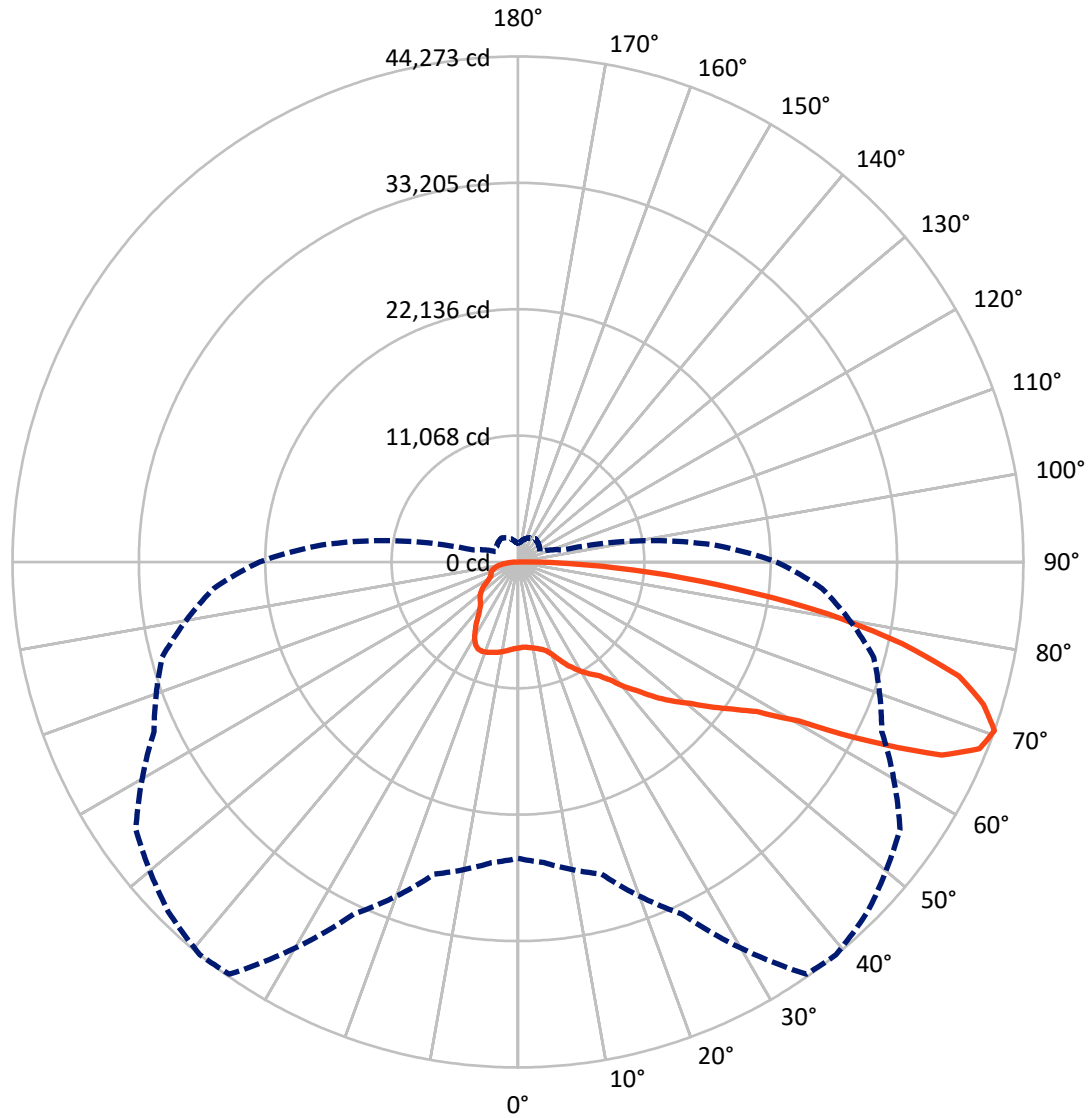
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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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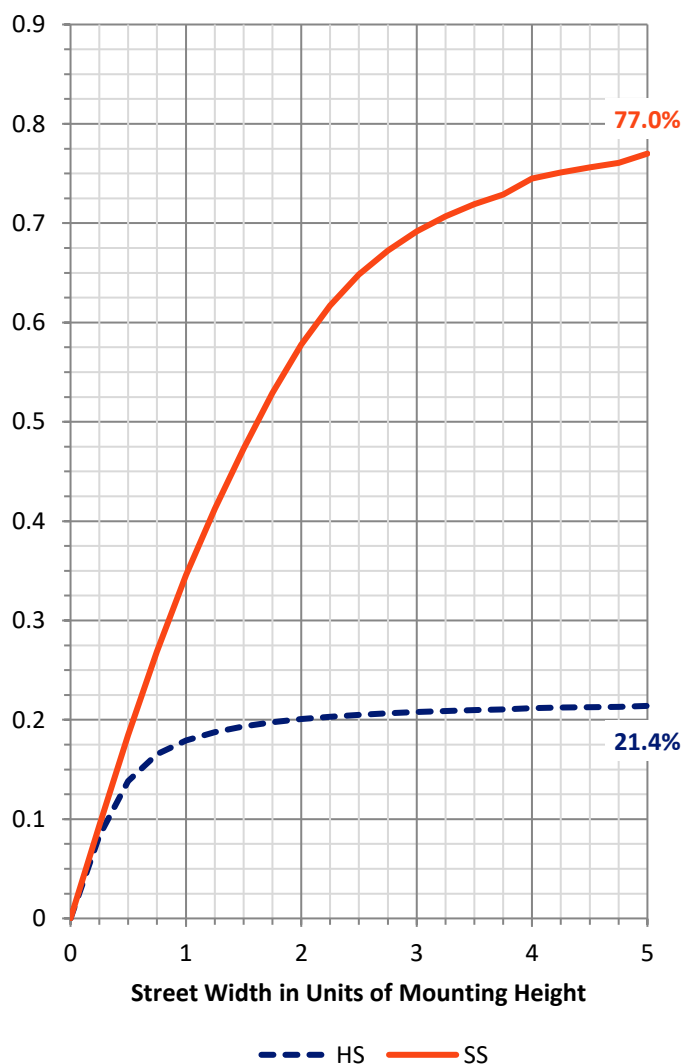
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16989.9	0.0	16989.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	61245.1	0.0	61245.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	78235.0	0.0	78235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.7	0.9
10°-20°	2317.0	3.0
20°-30°	4326.9	5.5
30°-40°	6763.0	8.6
40°-50°	10359.2	13.2
50°-60°	14873.5	19.0
60°-70°	19633.9	25.1
70°-80°	15637.1	20.0
80°-90°	3591.7	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°	78235.0	100.0
0°-180°	78235.0	100.0

Coefficient of Utilization

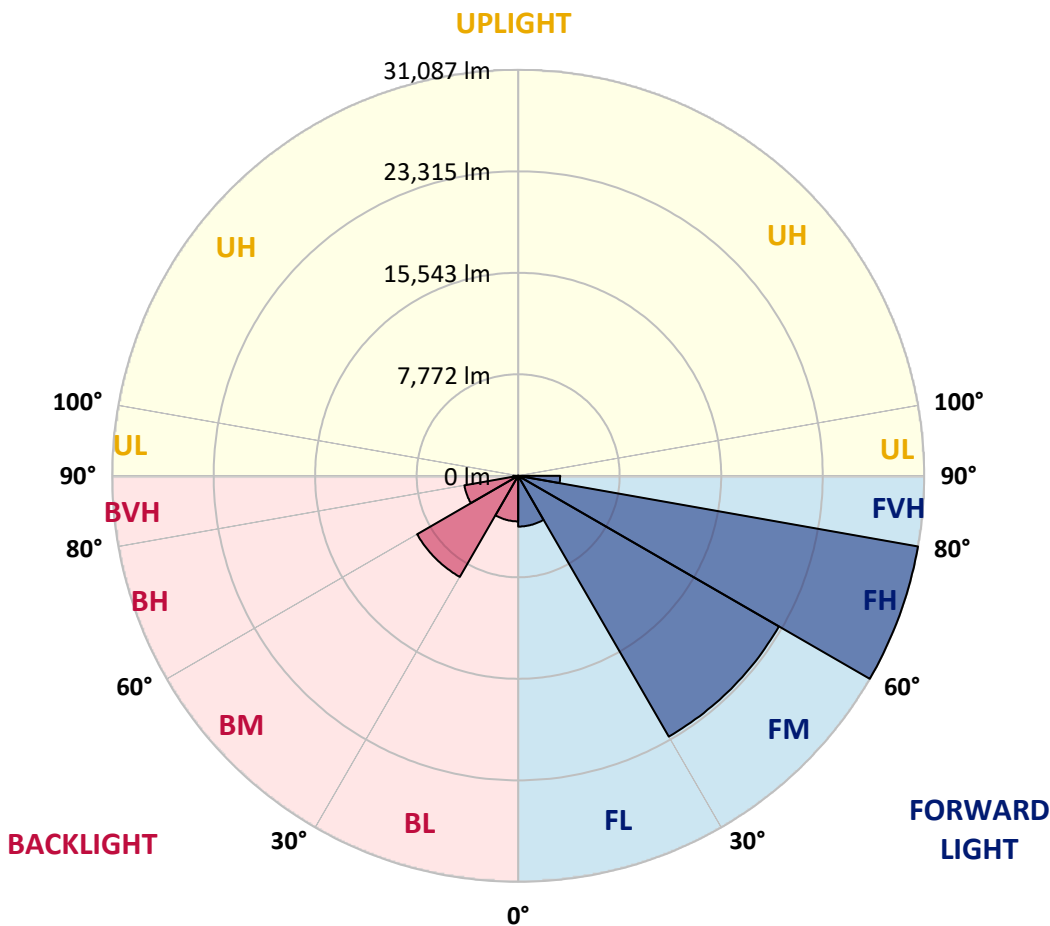


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3886.4	5.0			
FM (30°-60°)	23056.1	29.5			
FH (60°-80°)	31086.5	39.7			G5
FVH (80°-90°)	3216.1	4.1			G5
BL (0°-30°)	3490.2	4.5	B4/5000		
BM (30°-60°)	8939.6	11.4	B5		
BH (60°-80°)	4184.5	5.3	B4/5000		G4/5000
BVH (80°-90°)	375.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8
2.5°	7510.3	7507.2	7542.8	7508.7	7504.1	7479.4	7487.1	7514.9	7553.6	7545.9	7570.6
5°	7533.5	7530.4	7566.0	7518.0	7519.6	7505.7	7490.2	7524.2	7561.3	7562.9	7595.4
7.5°	7578.4	7590.7	7621.7	7579.9	7596.9	7573.7	7553.6	7595.4	7620.1	7609.3	7660.3
10°	7615.5	7623.2	7663.4	7643.3	7677.4	7669.6	7668.1	7717.6	7751.6	7719.1	7770.2
12.5°	7661.9	7678.9	7726.9	7723.8	7790.3	7787.2	7804.2	7884.6	7924.9	7895.5	7937.2
15°	7773.3	7790.3	7839.8	7852.2	7940.3	7957.4	7994.5	8098.1	8167.7	8138.3	8194.0
17.5°	8079.6	8070.3	8116.7	8113.6	8192.5	8208.0	8265.2	8401.3	8495.7	8508.1	8573.0
20°	8675.1	8693.7	8720.0	8686.0	8681.3	8667.4	8687.5	8780.3	8910.3	8981.4	9091.2
22.5°	9535.2	9485.7	9502.7	9383.6	9314.0	9306.3	9270.7	9314.0	9443.9	9541.4	9700.7
25°	10279.3	10285.5	10268.5	10118.4	10013.2	9994.6	9966.8	10000.8	10089.0	10215.9	10413.9
27.5°	10896.5	10876.4	10877.9	10707.8	10599.5	10565.5	10553.1	10743.4	10918.2	11004.8	11298.7
30°	11447.2	11397.7	11376.0	11230.6	11181.1	11157.9	11151.7	11462.7	11789.1	12027.3	12409.4
32.5°	12420.2	12372.3	12151.1	11795.3	11711.7	11705.5	11721.0	12135.6	12703.3	13141.1	13755.2
35°	13430.4	13405.6	13286.5	12844.1	12346.0	12248.5	12318.1	12861.1	13629.9	14528.7	15299.0
37.5°	14652.4	14607.6	14456.0	13909.9	13353.0	13096.2	12986.4	13561.8	14613.8	16279.8	17225.0
40°	16157.6	16012.2	15764.7	15040.7	14573.5	14336.9	13913.0	14403.4	15828.1	18360.4	19242.1
42.5°	17361.1	17320.9	16992.9	16337.0	15747.6	15461.5	15147.4	15388.8	17300.8	20490.5	21243.8
45°	18318.6	18357.3	18171.7	17596.2	17051.7	16883.1	16692.8	17061.0	19037.9	22784.6	23010.4
47.5°	19246.8	19276.2	19048.8	18641.9	18312.4	18199.5	18270.7	19072.0	21055.1	24721.3	24492.4
50°	20640.6	20526.1	19769.6	19560.8	19378.3	19432.4	19881.0	20863.3	23378.6	26594.6	25872.2
52.5°	22977.9	22544.8	21182.0	20750.4	20852.5	21048.9	21488.3	22694.9	25918.6	28065.8	27007.7
55°	26271.3	25592.2	23997.4	22547.9	22433.4	22727.3	23237.8	24594.5	28115.3	29419.3	27938.9
57.5°	28619.6	28593.3	27700.7	26373.4	24671.8	24712.0	25174.6	26407.5	29900.4	30769.8	28667.5
60°	30867.2	31018.8	31453.5	30650.7	28953.7	28245.2	27719.3	28237.5	31489.1	31844.9	29184.2
62.5°	32675.6	32790.1	34446.8	34695.9	35387.3	34620.1	32262.6	30596.5	32937.0	32516.3	29345.1
65°	32616.8	32596.7	34903.2	36669.7	40202.9	40784.5	39274.7	33760.0	34709.8	32861.2	29145.5
67.5°	29991.7	29922.1	32171.3	36447.0	43245.7	43620.0	42742.9	38722.5	35294.5	32811.7	28443.2
70°	25958.9	26433.8	28297.8	34018.3	44074.8	44272.8	43316.8	40852.6	35161.5	32265.7	26755.5
72.5°	21689.4	21834.8	24011.3	29838.5	42586.7	42647.0	41988.0	40374.6	34276.6	30984.8	23411.1
75°	17065.6	17006.8	19045.7	24093.3	38841.6	39896.6	39615.1	38796.7	32335.3	27341.8	17899.4
77.5°	11984.0	11905.1	13982.6	18598.6	32059.9	34423.6	35992.2	35285.2	27595.5	20523.0	9877.1
80°	6026.8	6517.2	8639.5	13280.3	24988.9	27519.7	29187.3	27983.8	19950.6	11403.9	2965.4
82.5°	2178.1	2270.9	4150.4	8198.7	17520.4	19141.6	20669.9	18710.0	9861.6	2857.2	612.6
85°	1045.7	1089.0	1700.1	4229.3	10704.7	11546.2	12149.5	8005.3	1839.3	547.6	346.5
87.5°	493.5	518.2	773.5	1686.1	4433.5	4603.6	4322.1	2328.1	321.8	207.3	143.9
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°	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8	7542.8
2.5°	7561.3	7573.7	7593.8	7567.5	7553.6	7566.0	7595.4	7592.3	7610.8	7618.6	7603.1
5°	7592.3	7609.3	7640.2	7634.0	7632.5	7665.0	7703.7	7720.7	7743.9	7747.0	7725.3
7.5°	7657.3	7680.5	7717.6	7733.1	7756.3	7787.2	7841.3	7846.0	7876.9	7870.7	7856.8
10°	7779.5	7810.4	7869.2	7897.0	7903.2	7928.0	7968.2	7960.4	7969.7	7965.1	7943.4
12.5°	7948.1	7985.2	8068.7	8121.3	8104.3	8087.3	8067.2	8028.5	8010.0	7996.0	7975.9
15°	8209.5	8271.4	8370.4	8373.5	8307.0	8218.8	8153.8	8037.8	7965.1	7921.8	7887.7
17.5°	8628.7	8681.3	8822.1	8727.7	8569.9	8392.0	8197.1	7954.3	7759.3	7635.6	7584.5
20°	9136.1	9239.8	9372.8	9173.2	8907.2	8585.4	8234.3	7819.7	7408.2	7139.0	7083.3
22.5°	9795.1	9917.3	9914.2	9592.4	9215.0	8732.4	8242.0	7627.9	6976.6	6463.0	6385.7
25°	10571.6	10624.2	10444.8	9940.5	9389.8	8767.9	8127.5	7307.6	6359.4	5756.1	5712.8
27.5°	11342.0	11343.6	10916.6	10198.8	9402.2	8641.1	7841.3	6750.8	5717.4	5253.3	5202.3
30°	12375.4	12132.5	11352.8	10314.9	9266.0	8325.5	7279.8	6043.8	5177.5	4767.6	4718.1
32.5°	13506.2	13056.0	11728.7	10280.8	8972.1	7813.5	6545.0	5435.9	4744.4	4336.0	4295.8
35°	14896.8	14151.2	12115.5	10126.1	8430.7	7146.8	5848.9	4982.6	4397.9	3947.7	3871.9
37.5°	16613.9	15627.0	12612.0	9861.6	7835.1	6311.4	5267.3	4588.2	4066.9	3557.9	3449.6
40°	18510.4	17173.9	13254.0	9584.7	7160.7	5717.4	4849.6	4356.1	3856.5	3299.6	3195.9
42.5°	20287.9	18822.9	14078.5	9287.7	6545.0	5237.9	4671.7	4326.7	3797.7	3226.9	3104.7
45°	21977.1	20255.4	14920.0	8904.1	5901.5	4869.7	4597.4	4283.4	3746.6	3177.4	3049.0
47.5°	23318.3	21516.1	15685.8	8501.9	5333.8	4605.2	4486.1	4130.3	3626.0	3089.2	2973.2
50°	24551.2	22496.9	16278.2	8139.9	4818.7	4397.9	4277.2	3881.2	3397.0	2965.4	2864.9
52.5°	25508.7	23273.4	16610.8	8098.1	4319.0	4128.7	3984.9	3595.0	3186.7	2793.7	2696.3
55°	26177.0	23813.3	16654.1	7895.5	3887.4	3779.1	3615.2	3346.0	3075.3	2735.0	2651.4
57.5°	26607.0	24020.6	16366.4	6673.4	3441.9	3304.2	3234.6	3166.5	2970.1	2623.6	2560.2
60°	26829.8	23872.1	15679.6	4911.5	3004.1	2851.0	2967.0	2965.4	2807.7	2462.7	2410.1
62.5°	26746.2	23434.3	14305.9	3523.9	2605.0	2615.8	2744.2	2722.6	2496.7	2173.4	2113.1
65°	26139.8	22453.5	11970.1	2546.2	2419.4	2544.7	2645.2	2535.4	2247.7	1938.3	1899.6
67.5°	24834.2	20563.2	8362.6	2257.0	2371.4	2512.2	2611.2	2442.6	2145.6	1820.7	1785.1
70°	22646.9	17175.4	4045.2	2139.4	2283.3	2445.7	2540.0	2348.2	2054.3	1712.4	1658.3
72.5°	18556.8	11946.9	1676.9	2012.5	2175.0	2291.0	2431.8	2244.6	1910.4	1533.0	1489.7
75°	11637.5	5788.6	1392.2	1865.6	2007.9	2122.4	2263.1	2045.0	1659.8	1186.5	1149.4
77.5°	5067.7	1362.8	1311.8	1681.5	1862.5	1933.6	2052.8	1946.0	1520.6	1042.6	1014.8
80°	980.7	855.4	1243.7	1396.9	1602.6	1700.1	1761.9	1692.3	1280.8	795.1	663.6
82.5°	560.0	731.7	1082.8	1041.1	1266.9	1256.1	1373.7	1384.5	1022.5	386.7	346.5
85°	380.5	615.7	727.1	643.5	741.0	761.1	994.7	968.4	696.1	232.0	187.2
87.5°	179.4	187.2	241.3	219.7	292.4	423.9	575.5	515.1	304.7	131.5	111.4
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)