

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: P622554

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622554
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
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79678 lumens
Efficiency: N/A
Efficacy: 135.6 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

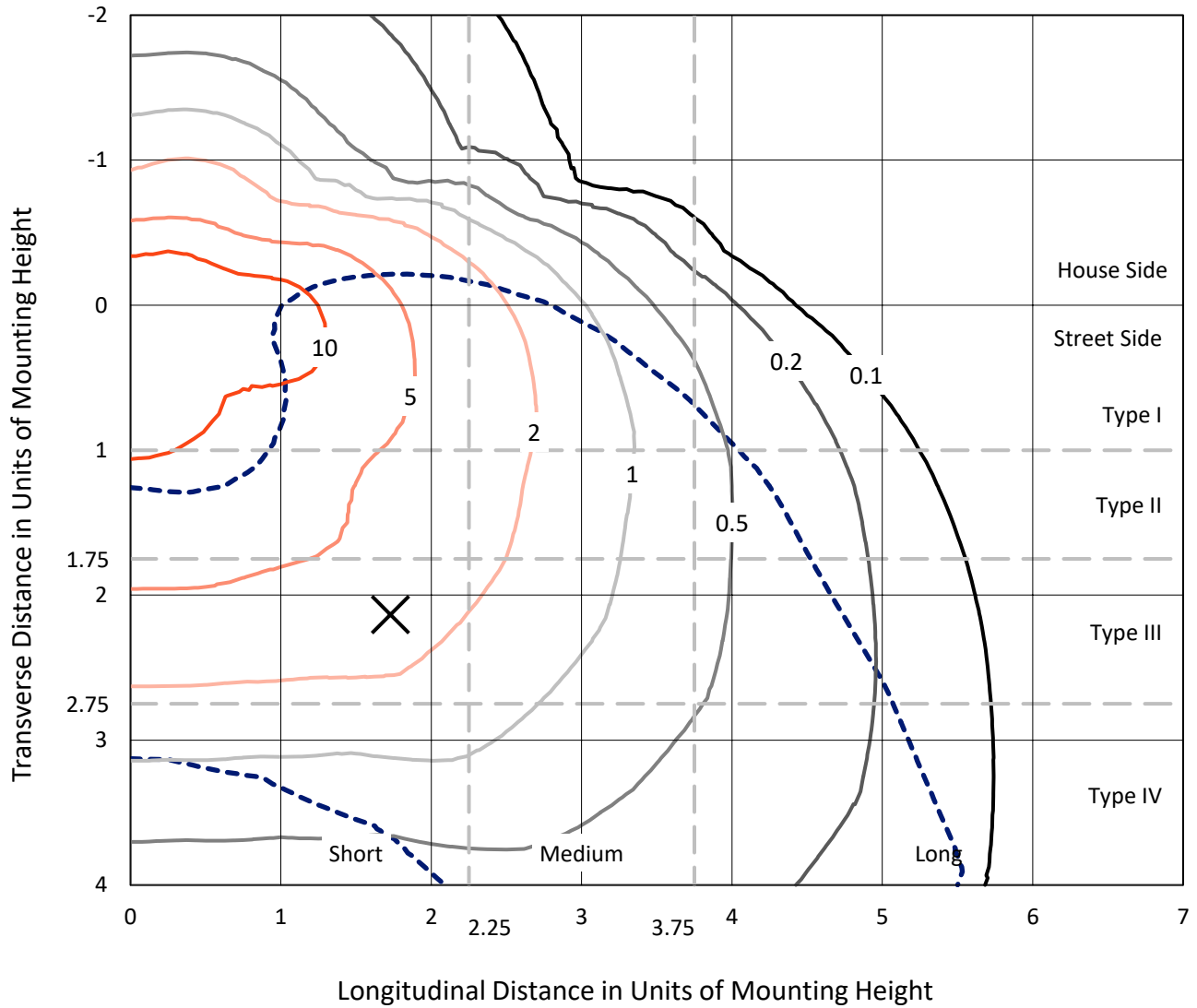
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

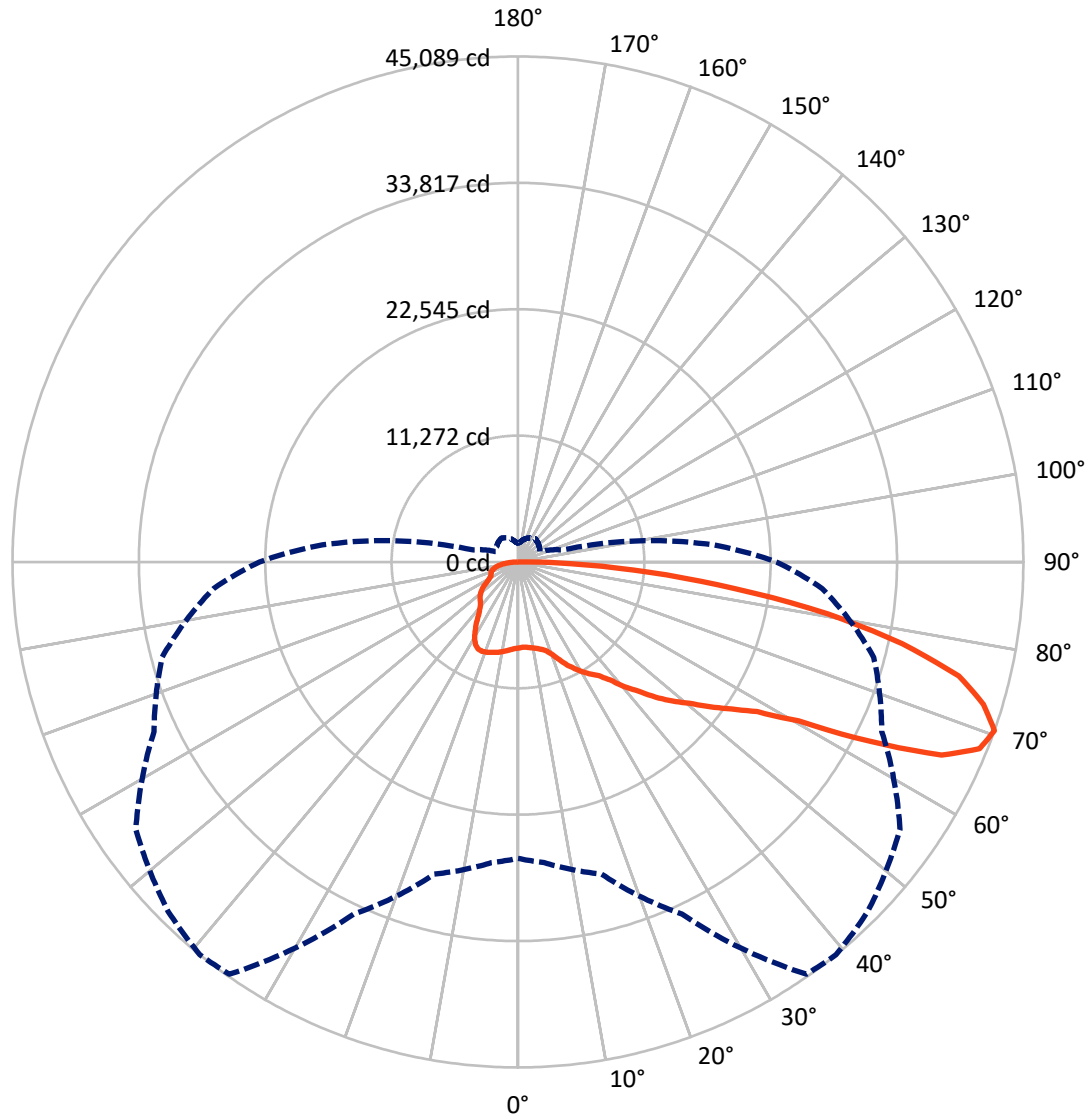
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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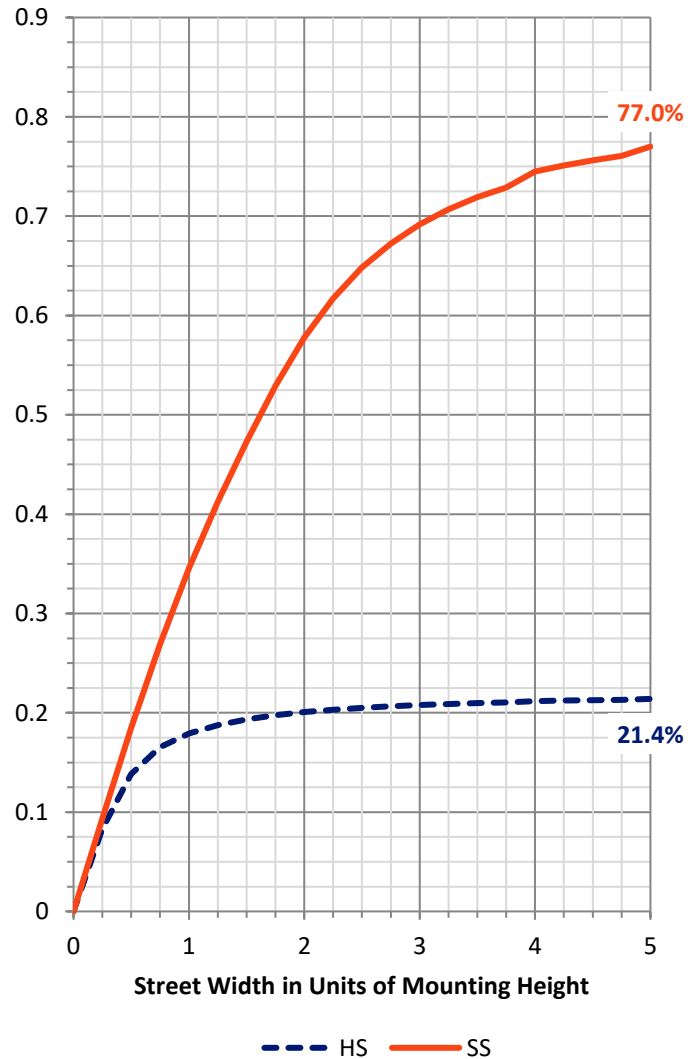
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17303.3	0.0	17303.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	62374.7	0.0	62374.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	79678.0	0.0	79678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.2	0.9
10°-20°	2359.8	3.0
20°-30°	4406.7	5.5
30°-40°	6887.7	8.6
40°-50°	10550.2	13.2
50°-60°	15147.8	19.0
60°-70°	19996.1	25.1
70°-80°	15925.5	20.0
80°-90°	3658.0	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°	79678.0	100.0
0°-180°	79678.0	100.0

Coefficient of Utilization



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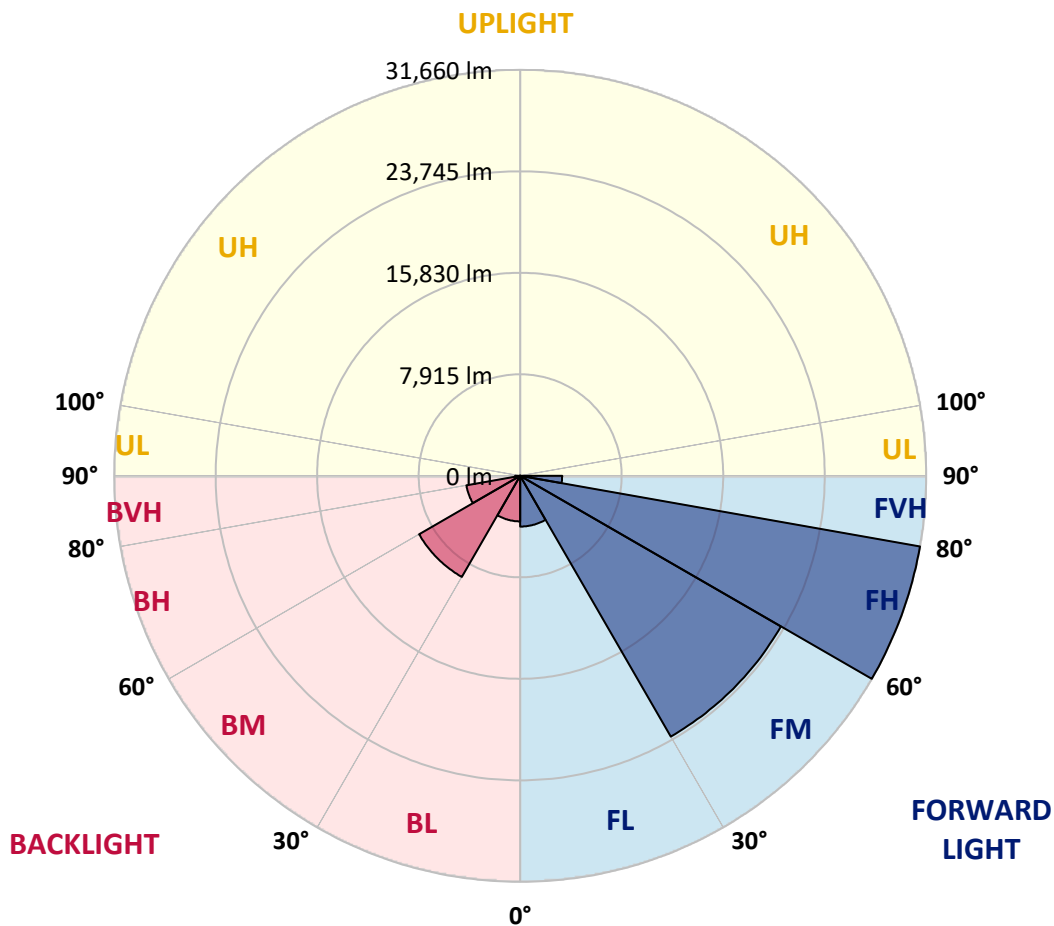
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3958.1	5.0			
FM (30°-60°)	23481.3	29.5			
FH (60°-80°)	31659.9	39.7			G5
FVH (80°-90°)	3275.4	4.1			G5
BL (0°-30°)	3554.6	4.5	B4/5000		
BM (30°-60°)	9104.5	11.4	B5		
BH (60°-80°)	4261.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	382.6	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°	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9
2.5°	7648.8	7645.7	7681.9	7647.2	7642.5	7617.3	7625.2	7653.5	7692.9	7685.1	7710.3
5°	7672.5	7669.3	7705.5	7656.7	7658.3	7644.1	7628.3	7663.0	7700.8	7702.4	7735.5
7.5°	7718.1	7730.7	7762.3	7719.7	7737.0	7713.4	7692.9	7735.5	7760.7	7749.6	7801.6
10°	7755.9	7763.8	7804.8	7784.3	7819.0	7811.1	7809.5	7859.9	7894.6	7861.5	7913.5
12.5°	7803.2	7820.5	7869.4	7866.2	7934.0	7930.8	7948.2	8030.1	8071.0	8041.1	8083.6
15°	7916.6	7934.0	7984.4	7997.0	8086.8	8104.1	8141.9	8247.5	8318.4	8288.5	8345.2
17.5°	8228.6	8219.1	8266.4	8263.2	8343.6	8359.3	8417.6	8556.3	8652.4	8665.0	8731.2
20°	8835.1	8854.0	8880.8	8846.2	8841.4	8827.3	8847.7	8942.3	9074.6	9147.1	9258.9
22.5°	9711.1	9660.7	9678.0	9556.7	9485.8	9477.9	9441.7	9485.8	9618.1	9717.4	9879.7
25°	10468.9	10475.2	10457.8	10305.0	10197.9	10179.0	10150.6	10185.3	10275.1	10404.3	10605.9
27.5°	11097.5	11077.0	11078.6	10905.3	10795.0	10760.3	10747.7	10941.5	11119.5	11207.8	11507.1
30°	11658.3	11607.9	11585.9	11437.8	11387.4	11363.7	11357.4	11674.1	12006.5	12249.1	12638.3
32.5°	12649.3	12600.5	12375.2	12012.8	11927.7	11921.4	11937.2	12359.4	12937.6	13383.5	14008.9
35°	13678.1	13652.9	13531.6	13081.0	12573.7	12474.4	12545.3	13098.3	13881.3	14796.6	15581.2
37.5°	14922.7	14877.0	14722.6	14166.5	13599.3	13337.8	13225.9	13812.0	14883.3	16580.1	17542.7
40°	16455.6	16307.5	16055.4	15318.1	14842.3	14601.3	14169.6	14669.0	16120.0	18699.0	19597.0
42.5°	17681.3	17640.3	17306.3	16638.3	16038.1	15746.6	15426.8	15672.6	17619.9	20868.4	21635.7
45°	18656.5	18695.9	18506.8	17920.8	17366.2	17194.5	17000.7	17375.7	19389.1	23204.8	23434.8
47.5°	19601.8	19631.7	19400.1	18985.8	18650.2	18535.2	18607.7	19423.7	21443.5	25177.3	24944.1
50°	21021.3	20904.7	20134.3	19921.6	19735.7	19790.8	20247.7	21248.1	23809.8	27085.2	26349.4
52.5°	23401.8	22960.6	21572.7	21133.1	21237.1	21437.2	21884.6	23113.5	26396.7	28583.4	27505.8
55°	26755.9	26064.3	24440.0	22963.8	22847.2	23146.5	23666.4	25048.1	28633.8	29961.9	28454.2
57.5°	29147.4	29120.7	28211.6	26859.9	25126.9	25167.8	25638.9	26894.5	30451.9	31337.3	29196.3
60°	31436.6	31591.0	32033.7	31216.0	29487.7	28766.2	28230.5	28758.3	32069.9	32432.3	29722.5
62.5°	33278.3	33394.9	35082.2	35335.8	36040.0	35258.6	32857.6	31160.9	33544.5	33116.0	29886.3
65°	33218.4	33197.9	35546.9	37346.1	40944.4	41536.8	39999.1	34382.7	35350.0	33467.3	29683.1
67.5°	30544.9	30474.0	32764.7	37119.2	44043.3	44424.6	43531.3	39436.7	35945.5	33416.9	28967.8
70°	26437.7	26921.3	28819.7	34645.8	44887.8	45089.4	44115.8	41606.1	35810.0	32860.8	27249.0
72.5°	22089.4	22237.5	24454.2	30388.9	43372.2	43433.6	42762.5	41119.3	34908.9	31556.3	23842.9
75°	17380.4	17320.5	19397.0	24537.7	39558.0	40632.5	40345.7	39512.3	32931.7	27846.1	18229.6
77.5°	12205.0	12124.7	14240.5	18941.7	32651.2	35058.5	36656.0	35936.1	28104.5	20901.5	10059.3
80°	6138.0	6637.4	8798.9	13525.3	25449.8	28027.3	29725.6	28499.9	20318.6	11614.2	3020.1
82.5°	2218.2	2312.8	4226.9	8349.9	17843.6	19494.6	21051.2	19055.1	10043.5	2909.9	623.9
85°	1065.0	1109.1	1731.4	4307.3	10902.1	11759.2	12373.6	8153.0	1873.2	557.7	352.9
87.5°	502.6	527.8	787.7	1717.2	4515.2	4688.5	4401.8	2371.1	327.7	211.1	146.5
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°	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9	7681.9
2.5°	7700.8	7713.4	7733.9	7707.1	7692.9	7705.5	7735.5	7732.3	7751.2	7759.1	7743.3
5°	7732.3	7749.6	7781.2	7774.9	7773.3	7806.4	7845.7	7863.1	7886.7	7889.9	7867.8
7.5°	7798.5	7822.1	7859.9	7875.7	7899.3	7930.8	7986.0	7990.7	8022.2	8015.9	8001.7
10°	7922.9	7954.5	8014.3	8042.7	8049.0	8074.2	8115.2	8107.3	8116.7	8112.0	8089.9
12.5°	8094.7	8132.5	8217.6	8271.1	8253.8	8236.5	8216.0	8176.6	8157.7	8143.5	8123.0
15°	8360.9	8423.9	8524.8	8527.9	8460.2	8370.4	8304.2	8186.0	8112.0	8067.9	8033.2
17.5°	8787.9	8841.4	8984.8	8888.7	8728.0	8546.8	8348.3	8101.0	7902.5	7776.4	7724.4
20°	9304.6	9410.2	9545.7	9342.4	9071.5	8743.8	8386.1	7963.9	7544.8	7270.7	7214.0
22.5°	9975.8	10100.2	10097.1	9769.4	9385.0	8893.4	8394.0	7768.6	7105.3	6582.2	6503.5
25°	10766.6	10820.2	10637.5	10123.9	9563.0	8929.7	8277.4	7442.4	6476.7	5862.3	5818.1
27.5°	11551.2	11552.8	11118.0	10387.0	9575.6	8800.5	7986.0	6875.3	5822.9	5350.2	5298.2
30°	12603.6	12356.3	11562.2	10505.1	9437.0	8479.1	7414.1	6155.3	5273.0	4855.5	4805.1
32.5°	13755.3	13296.8	11945.1	10470.5	9137.6	7957.6	6665.7	5536.1	4831.9	4416.0	4375.0
35°	15171.6	14412.2	12338.9	10312.9	8586.2	7278.6	5956.8	5074.5	4479.0	4020.6	3943.4
37.5°	16920.4	15915.2	12844.7	10043.5	7979.7	6427.8	5364.4	4672.8	4141.9	3623.5	3513.3
40°	18851.9	17490.7	13498.5	9761.5	7292.8	5822.9	4939.0	4436.5	3927.6	3360.4	3254.9
42.5°	20662.1	19170.1	14338.2	9459.0	6665.7	5334.5	4757.9	4406.5	3867.7	3286.4	3161.9
45°	22382.4	20629.0	15195.2	9068.3	6010.3	4959.5	4682.2	4362.4	3815.7	3236.0	3105.2
47.5°	23748.4	21913.0	15975.1	8658.7	5432.2	4690.1	4568.8	4206.5	3692.9	3146.2	3028.0
50°	25004.0	22911.8	16578.5	8290.0	4907.5	4479.0	4356.1	3952.8	3459.7	3020.1	2917.7
52.5°	25979.2	23702.7	16917.2	8247.5	4398.7	4204.9	4058.4	3661.3	3245.4	2845.3	2746.0
55°	26659.8	24252.5	16961.3	8041.1	3959.1	3848.8	3681.8	3407.7	3132.0	2785.4	2700.3
57.5°	27097.8	24463.6	16668.3	6796.5	3505.4	3365.2	3294.3	3224.9	3024.9	2672.0	2607.4
60°	27324.6	24312.4	15968.8	5002.1	3059.5	2903.6	3021.7	3020.1	2859.4	2508.1	2454.6
62.5°	27239.6	23866.5	14569.8	3588.9	2653.1	2664.1	2794.9	2772.8	2542.8	2213.5	2152.1
65°	26622.0	22867.7	12190.8	2593.2	2464.0	2591.6	2694.0	2582.2	2289.1	1974.0	1934.7
67.5°	25292.3	20942.5	8516.9	2298.6	2415.2	2558.5	2659.4	2487.6	2185.2	1854.3	1818.1
70°	23064.6	17492.2	4119.8	2178.8	2325.4	2490.8	2586.9	2391.5	2092.2	1744.0	1688.9
72.5°	18899.1	12167.2	1707.8	2049.7	2215.1	2333.2	2476.6	2286.0	1945.7	1561.3	1517.2
75°	11852.1	5895.3	1417.9	1900.0	2044.9	2161.5	2304.9	2082.7	1690.5	1208.4	1170.6
77.5°	5161.2	1388.0	1336.0	1712.5	1896.8	1969.3	2090.6	1981.9	1548.7	1061.9	1033.5
80°	998.8	871.2	1266.7	1422.6	1632.2	1731.4	1794.4	1723.5	1304.5	809.8	675.9
82.5°	570.3	745.2	1102.8	1060.3	1290.3	1279.3	1399.0	1410.0	1041.4	393.9	352.9
85°	387.6	627.0	740.5	655.4	754.6	775.1	1013.0	986.2	709.0	236.3	190.6
87.5°	182.8	190.6	245.8	223.7	297.8	431.7	586.1	524.6	310.4	133.9	113.4
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)