

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: P622447

Luminaire Tested: **PRV-M-C225-D-U-T2-BZ-7050-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)
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-T2-BZ-7050-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56232 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

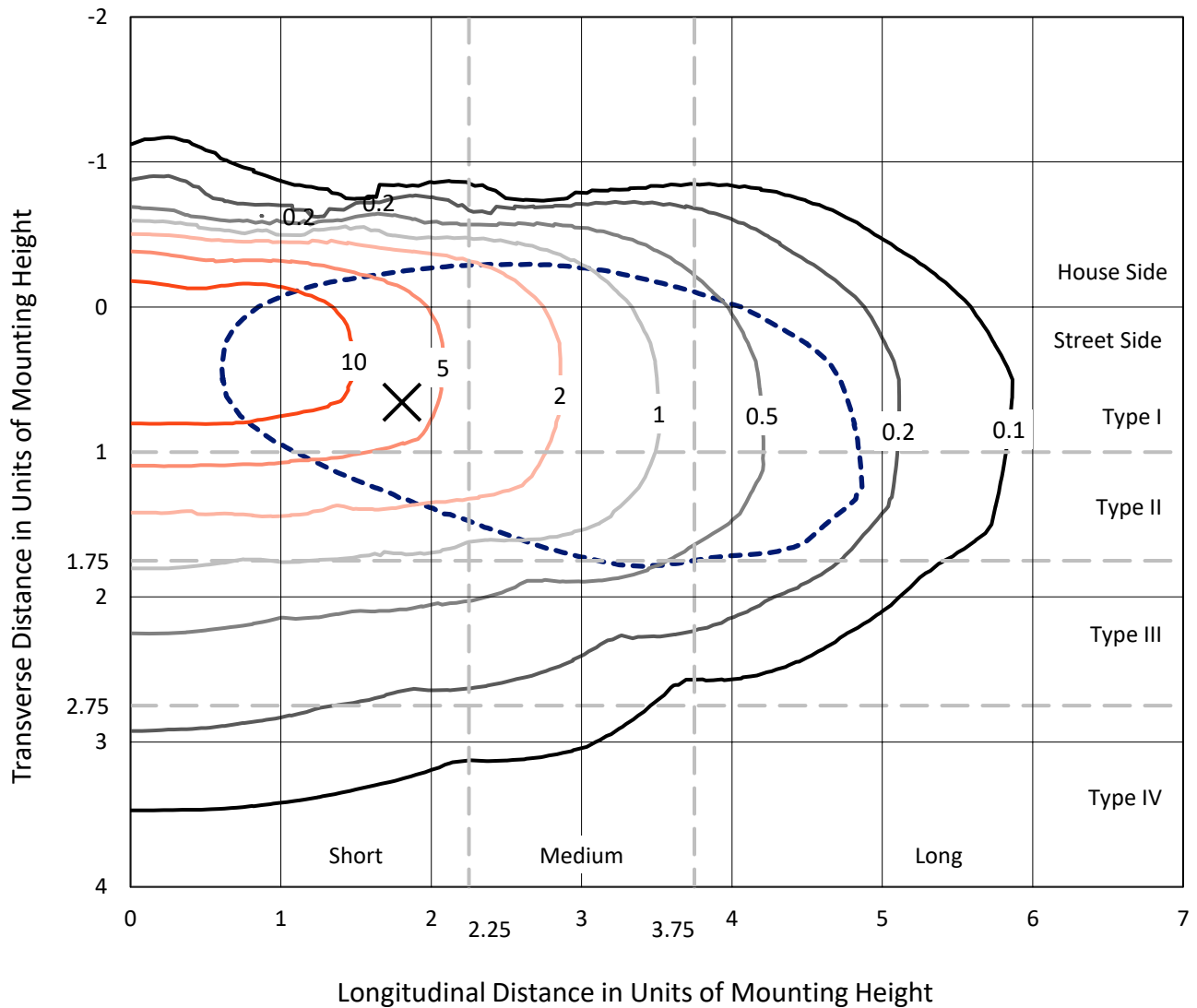
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

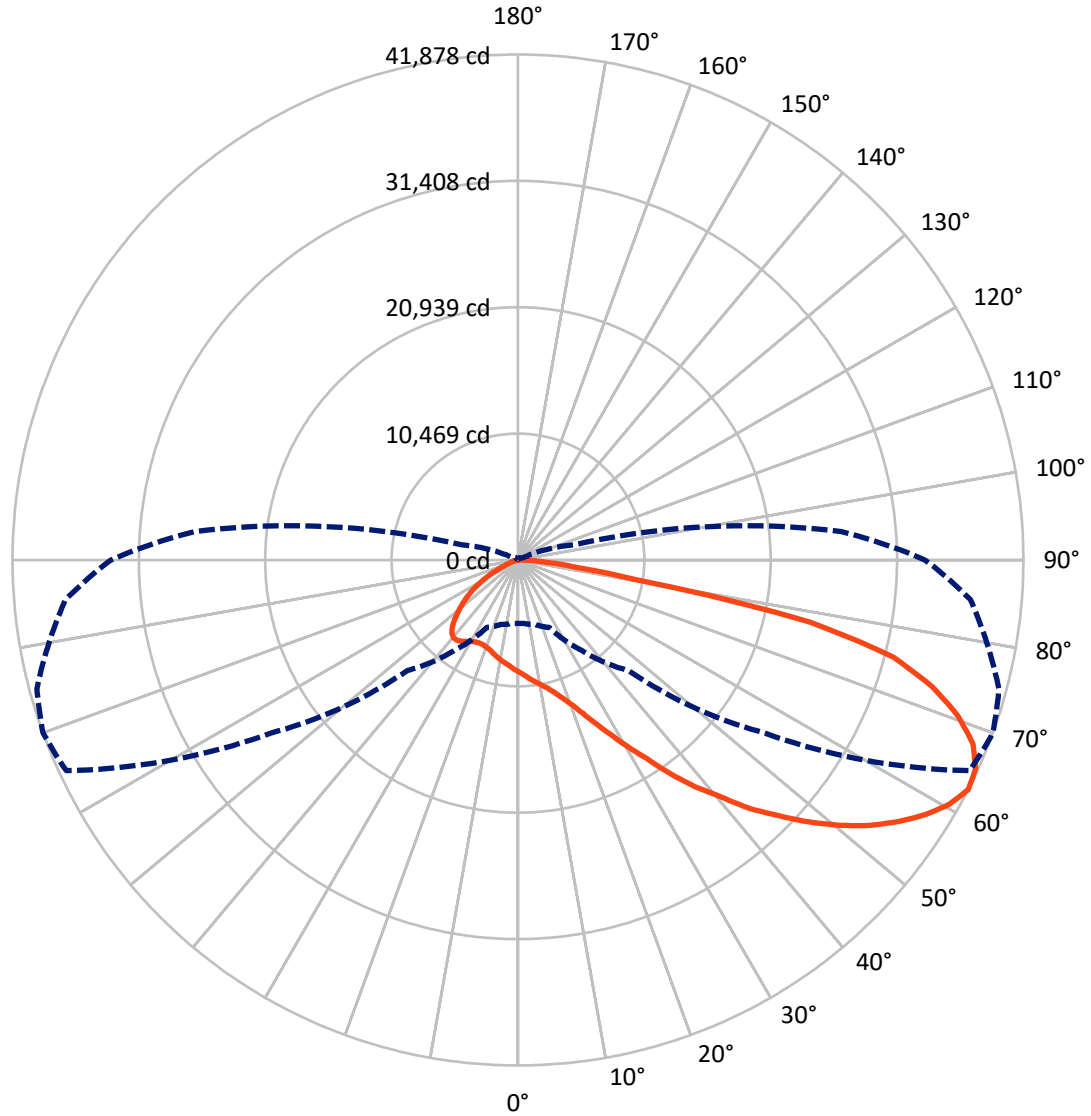
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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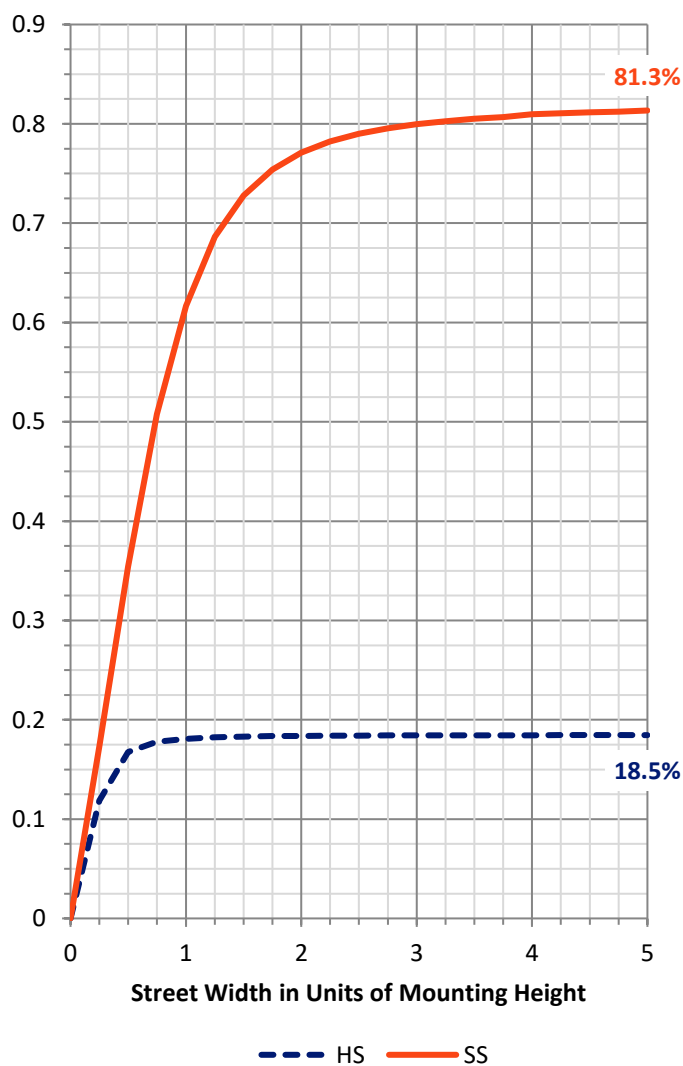
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10501.9	0.0	10501.9
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	45730.1	0.0	45730.1
	% Fixture	81.3	0.0	81.3
Total	Lumens	56232.0	0.0	56232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.0	1.6
10°-20°	2697.5	4.8
20°-30°	4663.3	8.3
30°-40°	7056.3	12.5
40°-50°	9609.0	17.1
50°-60°	11345.7	20.2
60°-70°	11473.6	20.4
70°-80°	7539.9	13.4
80°-90°	956.8	1.7
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°	56232.0	100.0
0°-180°	56232.0	100.0

Coefficient of Utilization



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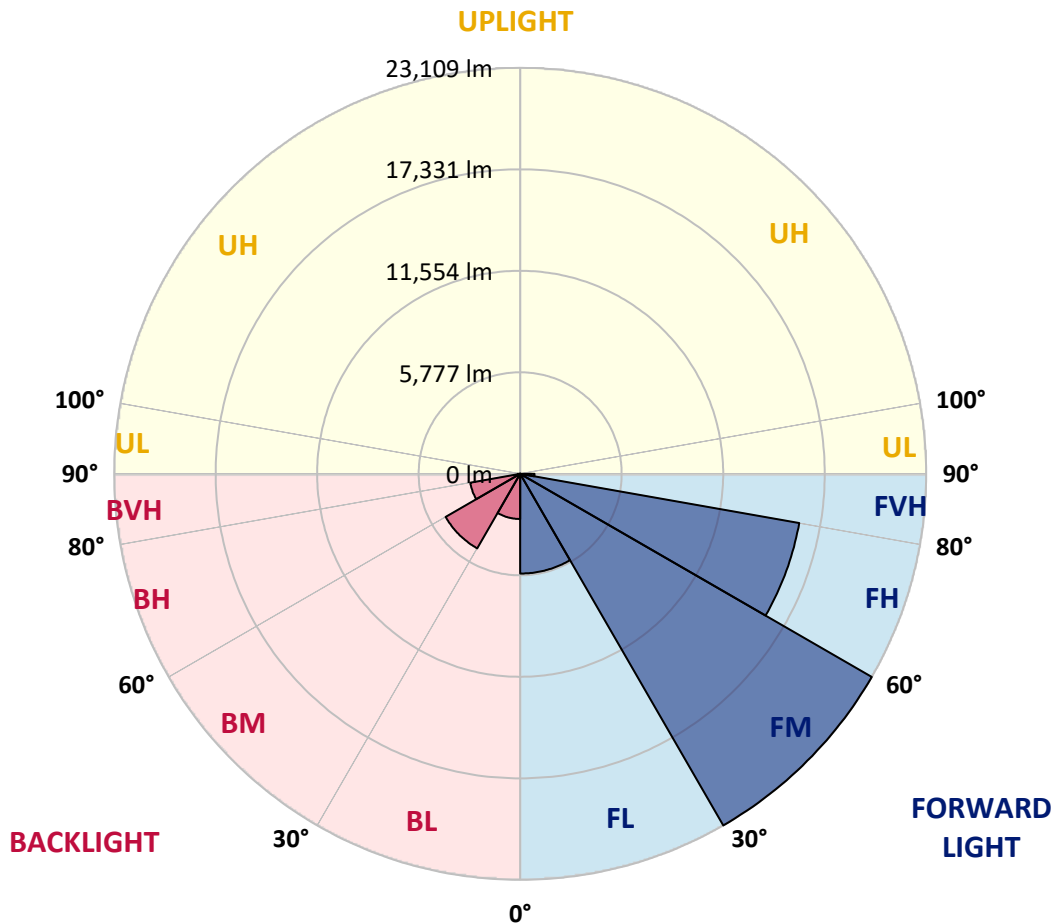
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5676.2	10.1			
FM (30°-60°)	23108.6	41.1			
FH (60°-80°)	16128.4	28.7			G5
FVH (80°-90°)	816.8	1.5			G5
BL (0°-30°)	2574.5	4.6	B4/5000		
BM (30°-60°)	4902.3	8.7	B3/5000		
BH (60°-80°)	2885.1	5.1	B4/5000		G4/5000
BVH (80°-90°)	140.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8
2.5°	9948.9	9945.3	9970.5	9950.1	9870.7	9750.5	9707.2	9608.6	9532.9	9477.6	9380.2
5°	10678.6	10679.9	10684.7	10595.7	10470.7	10314.4	10160.5	9981.3	9855.1	9720.4	9490.8
7.5°	11326.7	11338.7	11344.7	11264.2	11092.2	10862.6	10620.9	10370.9	10179.7	10011.4	9638.7
10°	11877.3	11907.4	11895.4	11843.7	11650.1	11438.5	11127.1	10762.8	10510.3	10284.3	9781.7
12.5°	12436.4	12449.6	12418.3	12304.1	12171.9	11947.1	11624.8	11214.9	10898.7	10630.6	9972.9
15°	13005.1	13006.3	12954.6	12837.9	12649.2	12470.0	12191.1	11752.3	11403.6	11073.0	10253.0
17.5°	13465.5	13508.8	13436.7	13352.5	13214.3	13003.9	12819.9	12403.9	12040.8	11662.1	10658.2
20°	13885.1	13921.2	13926.0	13845.5	13793.8	13635.1	13490.8	13172.2	12793.5	12376.3	11199.2
22.5°	14225.4	14268.7	14322.8	14390.1	14470.6	14385.3	14358.8	14128.0	13802.2	13340.5	11962.7
25°	14463.4	14504.3	14718.3	14951.6	15125.9	15247.3	15377.2	15318.2	15029.7	14512.7	12963.0
27.5°	14566.8	14625.7	14931.1	15377.2	15835.2	16133.4	16519.3	16652.8	16388.3	15984.3	14173.7
30°	14600.5	14670.2	15038.1	15633.2	16449.6	17094.0	17648.3	18081.1	17954.8	17537.7	15633.2
32.5°	14469.4	14517.5	14932.3	15766.7	16919.7	18060.6	18794.0	19621.2	19608.0	19409.6	17308.0
35°	14028.2	14107.6	14635.4	15747.5	17320.0	18932.3	19931.4	21303.2	21744.4	21542.4	19355.5
37.5°	13454.7	13531.7	14171.3	15513.0	17559.3	19676.5	21196.2	23241.3	23817.2	23527.4	21161.3
40°	12779.0	12878.8	13589.4	15087.4	17624.2	20266.8	22328.7	25120.4	25730.0	25567.7	22980.4
42.5°	11968.7	12086.5	12892.0	14569.2	17496.8	20724.9	23497.4	27371.1	28128.5	27915.7	24774.2
45°	11180.0	11218.5	11967.5	13703.6	17160.1	21086.8	24504.9	29186.5	30204.9	29969.2	26667.8
47.5°	10368.5	10463.4	11176.4	12752.6	16384.7	21207.0	25455.9	31301.4	32423.1	32139.3	28715.3
50°	8586.7	8698.5	10211.0	11844.9	15348.3	20961.7	26444.1	33410.2	34552.3	34028.1	30499.4
52.5°	6973.2	7045.4	8084.1	10963.6	14089.5	20323.3	27321.8	35519.0	36539.7	35968.6	32161.0
55°	6406.9	6468.3	6909.5	9516.0	12932.9	19123.5	27802.7	37668.6	38246.9	37573.6	33764.8
57.5°	6048.7	6108.8	6366.1	7705.4	11723.4	17204.6	27914.5	39247.2	39811.1	39000.8	35134.2
60°	5572.6	5638.7	6021.0	6753.2	10420.2	14908.3	27204.0	40688.8	41072.3	40271.6	36477.2
62.5°	5244.3	5272.0	5534.1	6170.1	9094.0	12943.7	25019.4	41295.9	41877.8	41262.2	37630.2
65°	4851.2	4920.9	5140.9	5719.2	8079.3	11674.1	22700.2	40614.2	41673.4	41508.7	38261.4
67.5°	4422.0	4465.3	4687.7	5160.2	7024.9	10677.4	20342.6	39302.5	40645.5	40792.2	37858.6
70°	3953.1	3953.1	4150.3	4545.8	5796.2	9413.9	16740.5	37326.0	38680.9	38810.8	35824.3
72.5°	3345.9	3356.8	3580.4	3924.2	4809.1	7953.1	13024.3	34020.9	35882.0	36338.9	32492.8
75°	2636.6	2682.3	2936.0	3330.3	3923.0	6382.9	9418.7	27124.6	32106.9	33032.6	28289.6
77.5°	571.1	752.6	1777.0	2306.0	3038.2	4983.4	5803.4	15954.3	24734.5	26784.4	22311.9
80°	253.7	288.5	882.5	1480.0	1764.9	3210.1	3119.9	7181.2	9882.7	15077.8	14583.7
82.5°	125.0	170.7	375.1	929.4	1056.8	1130.1	1197.5	3412.1	4616.8	5578.6	6238.6
85°	34.9	57.7	193.6	371.5	442.4	274.1	444.8	1603.8	2345.6	2688.3	2590.9
87.5°	0.0	0.0	55.3	115.4	102.2	38.5	119.0	511.0	768.3	914.9	789.9
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°	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8	9270.8
2.5°	9326.1	9238.3	9130.1	8970.2	8847.6	8744.2	8680.5	8562.6	8532.6	8525.4	8492.9
5°	9363.4	9201.0	8936.5	8657.6	8431.6	8214.0	8073.3	7957.9	7862.9	7883.3	7799.2
7.5°	9446.3	9215.5	8806.7	8403.9	8032.4	7751.1	7527.5	7318.3	7225.7	7225.7	7168.0
10°	9517.2	9217.9	8692.5	8163.5	7676.6	7277.4	6990.1	6796.5	6646.2	6599.3	6580.1
12.5°	9617.0	9229.9	8550.6	7909.8	7349.5	6809.7	6474.3	6236.2	6114.8	6070.3	5960.9
15°	9796.2	9311.7	8422.0	7626.1	6958.8	6372.1	5950.1	5715.6	5576.2	5526.9	5506.4
17.5°	10088.3	9475.2	8333.0	7314.7	6574.1	5940.5	5484.8	5203.5	5059.2	4943.8	4930.5
20°	10480.3	9737.3	8305.3	7068.2	6164.1	5512.5	4969.0	4630.0	4358.3	4192.3	4194.8
22.5°	11067.0	10120.8	8355.8	6845.8	5810.6	5078.4	4448.4	3933.9	3478.2	3278.6	3234.1
25°	11891.7	10700.3	8489.3	6664.2	5455.9	4631.2	3737.9	2979.2	2540.4	2337.2	2292.7
27.5°	12948.6	11516.6	8737.0	6510.3	5120.5	4004.8	2874.7	2137.7	1739.7	1559.4	1484.8
30°	14090.7	12537.4	9130.1	6384.1	4694.9	3139.2	2046.3	1470.4	1102.5	985.9	985.9
32.5°	15734.2	13768.5	9632.7	6239.8	4137.0	2255.5	1363.4	949.8	698.5	621.6	621.6
35°	17489.6	15210.0	10266.3	6073.9	3344.7	1542.5	848.8	560.3	461.7	462.9	461.7
37.5°	19010.4	16482.1	10877.0	5821.4	2439.4	987.1	502.6	406.4	393.1	382.3	393.1
40°	20685.2	17814.2	11320.7	5409.1	1601.4	571.1	358.3	365.5	351.1	325.8	317.4
42.5°	22176.1	19018.9	11621.2	4752.6	1008.7	355.9	313.8	328.2	325.8	291.0	269.3
45°	23759.5	20311.3	11757.1	3761.9	554.3	322.2	276.5	306.6	305.4	265.7	244.1
47.5°	25316.4	21506.4	11699.4	2560.9	373.9	294.6	254.9	272.9	281.3	242.9	220.0
50°	27333.8	22587.2	11376.0	1472.8	341.4	275.3	236.8	230.8	248.9	209.2	196.0
52.5°	28907.6	23677.7	10719.5	789.9	323.4	262.1	218.8	193.6	209.2	171.9	181.5
55°	30323.9	24607.1	9571.3	544.6	319.8	248.9	210.4	170.7	174.3	149.1	146.7
57.5°	31733.0	25489.5	8115.4	479.7	324.6	250.1	191.2	149.1	135.9	121.4	101.0
60°	32864.3	26398.5	6488.7	440.0	327.0	247.7	167.1	129.8	98.6	83.0	79.4
62.5°	33732.4	26893.8	4869.2	410.0	318.6	227.2	151.5	108.2	79.4	60.1	57.7
65°	34143.5	26837.3	3281.0	378.7	315.0	217.6	139.5	91.4	62.5	46.9	44.5
67.5°	33479.9	25506.4	2083.6	347.5	309.0	208.0	131.0	79.4	54.1	38.5	36.1
70°	31253.3	23278.5	1238.3	311.4	293.4	191.2	126.2	70.9	46.9	30.1	25.2
72.5°	27682.5	20135.8	781.5	260.9	265.7	161.1	93.8	60.1	39.7	18.0	15.6
75°	23241.3	16173.1	565.1	193.6	216.4	127.4	74.5	51.7	32.5	10.8	9.6
77.5°	18048.6	10890.3	432.8	127.4	144.3	90.2	52.9	39.7	24.0	6.0	4.8
80°	11006.9	6281.9	340.2	72.1	89.0	52.9	24.0	25.2	10.8	1.2	0.0
82.5°	5310.5	2874.7	197.2	38.5	30.1	27.7	6.0	0.0	1.2	0.0	0.0
85°	1857.5	865.6	37.3	22.8	9.6	8.4	0.0	0.0	0.0	0.0	0.0
87.5°	497.7	153.9	10.8	9.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)