

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: P622443

Luminaire Tested: **PRV-M-C225-D-U-T2-BZ-7030-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622443
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-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K 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: 54220 lumens
Efficiency: N/A
Efficacy: 129.7 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

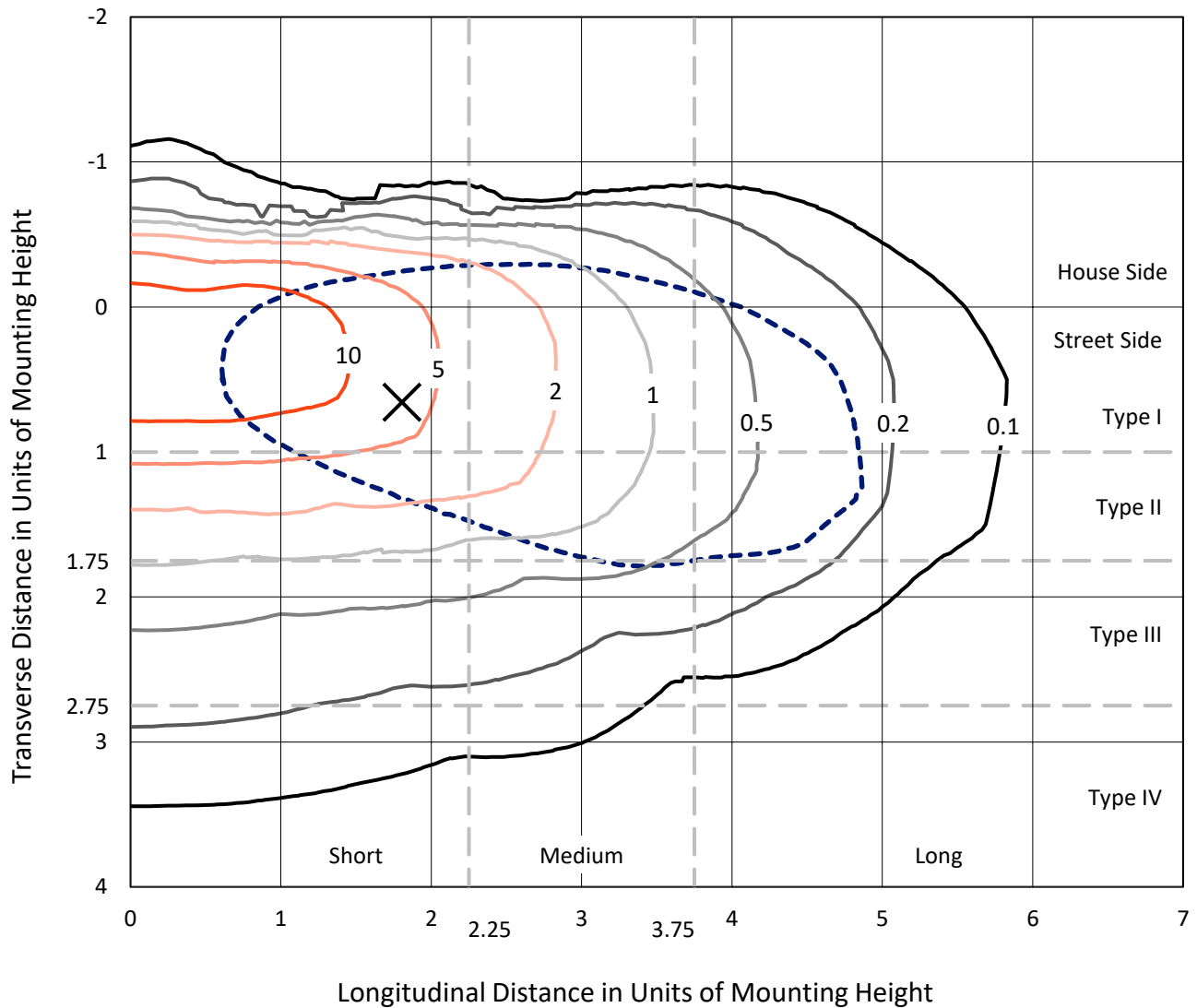
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

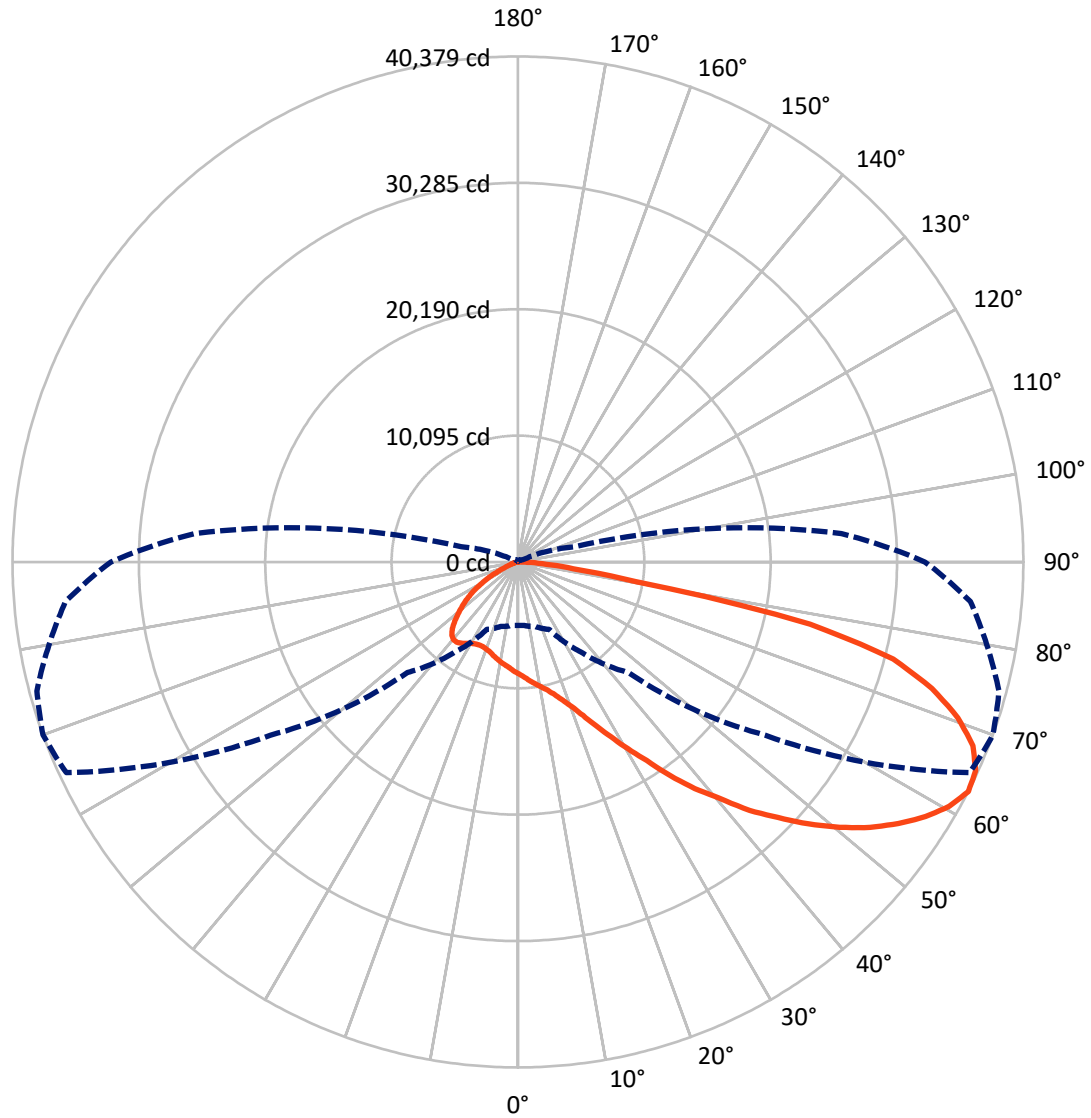
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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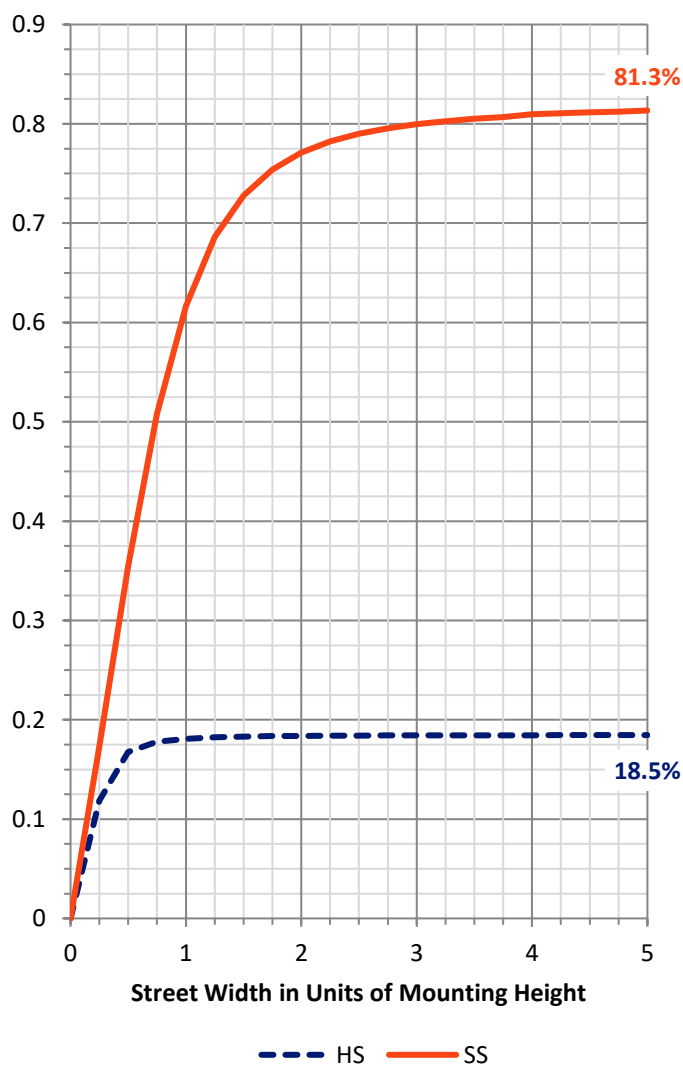
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10126.2	0.0	10126.2
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	44093.8	0.0	44093.8
	% Fixture	81.3	0.0	81.3
Total	Lumens	54220.0	0.0	54220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.2	1.6
10°-20°	2601.0	4.8
20°-30°	4496.4	8.3
30°-40°	6803.8	12.5
40°-50°	9265.1	17.1
50°-60°	10939.7	20.2
60°-70°	11063.1	20.4
70°-80°	7270.1	13.4
80°-90°	922.6	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°	54220.0	100.0
0°-180°	54220.0	100.0

Coefficient of Utilization



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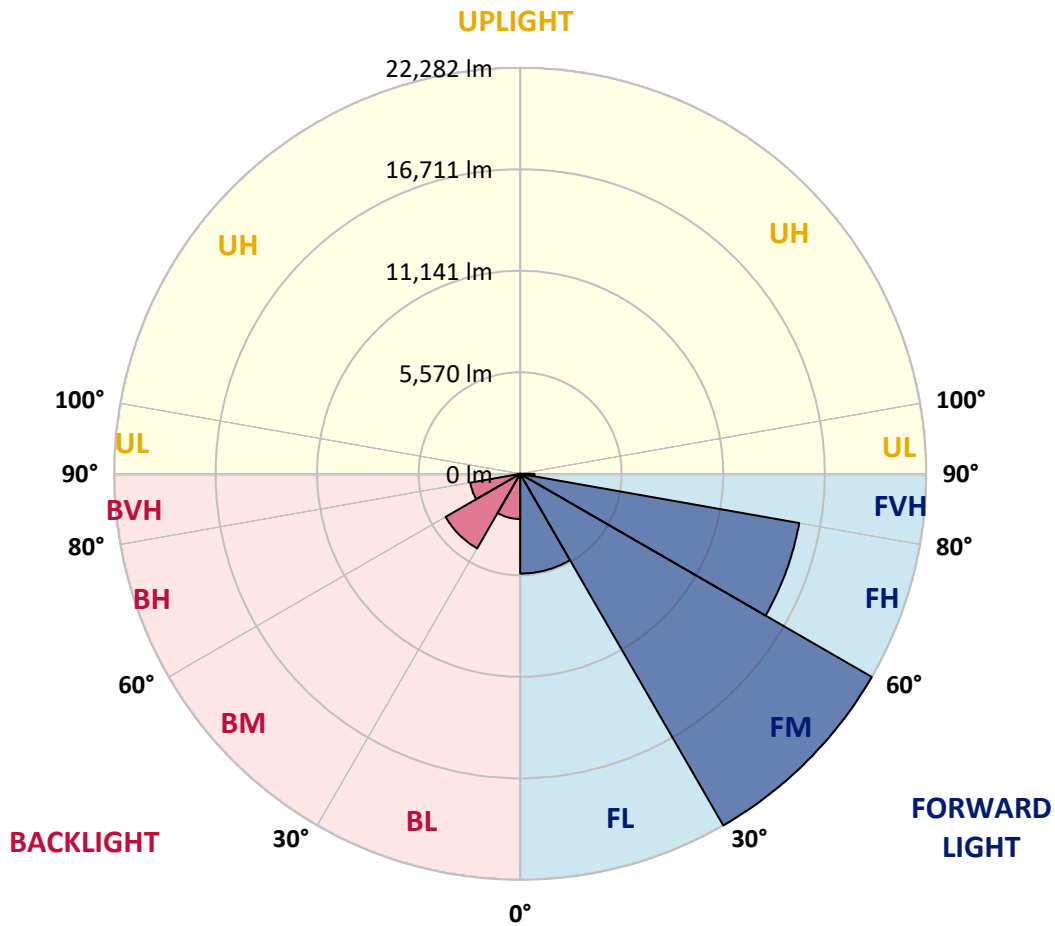
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5473.2	10.1			
FM (30°-60°)	22281.8	41.1			
FH (60°-80°)	15551.3	28.7			G5
FVH (80°-90°)	787.6	1.5			G5
BL (0°-30°)	2482.4	4.6	B3/2500		
BM (30°-60°)	4726.9	8.7	B3/5000		
BH (60°-80°)	2781.9	5.1	B4/5000		G4/5000
BVH (80°-90°)	135.0	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°	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1
2.5°	9592.9	9589.4	9613.8	9594.1	9517.5	9401.6	9359.9	9264.8	9191.8	9138.5	9044.6
5°	10296.6	10297.7	10302.4	10216.6	10096.0	9945.3	9796.9	9624.2	9502.5	9372.6	9151.2
7.5°	10921.4	10933.0	10938.8	10861.1	10695.3	10473.9	10240.9	9999.8	9815.5	9653.2	9293.8
10°	11452.3	11481.3	11469.7	11419.9	11233.2	11029.2	10729.0	10377.7	10134.3	9916.3	9431.8
12.5°	11991.4	12004.2	11974.0	11863.9	11736.4	11519.6	11208.9	10813.6	10508.7	10250.2	9616.1
15°	12539.7	12540.9	12491.0	12378.6	12196.6	12023.9	11754.9	11331.8	10995.6	10676.8	9886.2
17.5°	12983.7	13025.5	12955.9	12874.8	12741.4	12538.6	12361.2	11960.1	11610.0	11244.8	10276.9
20°	13388.3	13423.1	13427.7	13350.1	13300.2	13147.2	13008.1	12700.9	12335.7	11933.4	10798.5
22.5°	13716.4	13758.1	13810.3	13875.2	13952.9	13870.6	13845.1	13622.5	13308.3	12863.2	11534.7
25°	13945.9	13985.3	14191.7	14416.6	14584.7	14701.8	14827.0	14770.2	14491.9	13993.4	12499.2
27.5°	14045.6	14102.4	14396.9	14827.0	15268.6	15556.1	15928.3	16056.9	15801.9	15412.4	13666.5
30°	14078.1	14145.3	14500.0	15073.9	15861.0	16482.4	17016.8	17434.1	17312.4	16910.2	15073.9
32.5°	13951.7	13998.1	14398.0	15202.6	16314.3	17414.4	18121.6	18919.2	18906.4	18715.1	16688.7
35°	13526.3	13602.8	14111.7	15184.0	16700.3	18254.9	19218.2	20541.0	20966.4	20771.7	18663.0
37.5°	12973.3	13047.5	13664.2	14958.0	16931.0	18972.5	20437.8	22409.7	22965.0	22685.6	20404.2
40°	12321.8	12418.0	13103.1	14547.6	16993.6	19541.7	21529.8	24221.6	24809.4	24652.9	22158.1
42.5°	11540.5	11654.1	12430.8	14047.9	16870.7	19983.4	22656.6	26391.8	27122.1	26916.9	23887.7
45°	10780.0	10817.1	11539.3	13213.3	16546.1	20332.3	23628.1	28142.2	29124.1	28896.9	25713.6
47.5°	9997.5	10089.1	10776.5	12296.3	15798.4	20448.2	24545.1	30181.4	31263.0	30989.4	27687.8
50°	8279.4	8387.3	9845.6	11421.0	14799.1	20211.7	25498.0	32214.7	33316.0	32810.6	29408.2
52.5°	6723.7	6793.3	7794.9	10571.3	13585.4	19596.2	26344.2	34248.1	35232.3	34681.6	31010.3
55°	6177.7	6236.8	6662.3	9175.6	12470.2	18439.2	26807.9	36320.8	36878.4	36229.3	32556.7
57.5°	5832.2	5890.2	6138.3	7429.7	11304.0	16589.0	26915.7	37842.9	38386.6	37605.3	33877.1
60°	5373.2	5436.9	5805.6	6511.6	10047.3	14374.8	26230.6	39232.9	39602.7	38830.6	35172.0
62.5°	5056.7	5083.4	5336.1	5949.3	8768.7	12480.6	24124.2	39818.3	40379.4	39785.9	36283.7
65°	4677.6	4744.9	4957.0	5514.6	7790.2	11256.4	21888.0	39161.0	40182.3	40023.5	36892.3
67.5°	4263.8	4305.5	4520.0	4975.6	6773.6	10295.4	19614.7	37896.3	39191.2	39332.6	36504.0
70°	3811.7	3811.7	4001.8	4383.2	5588.8	9077.0	16141.6	35990.4	37296.9	37422.1	34542.5
72.5°	3226.2	3236.7	3452.3	3783.8	4637.0	7668.5	12558.3	32803.6	34598.2	35038.7	31330.2
75°	2542.3	2586.3	2830.9	3211.2	3782.7	6154.5	9081.7	26154.1	30958.1	31850.7	27277.4
77.5°	550.6	725.7	1713.4	2223.5	2929.5	4805.1	5595.8	15383.4	23849.5	25826.0	21513.6
80°	244.6	278.2	850.9	1427.1	1701.8	3095.2	3008.3	6924.3	9529.1	14538.3	14061.8
82.5°	120.6	164.6	361.7	896.1	1019.0	1089.7	1154.6	3290.0	4451.6	5379.0	6015.4
85°	33.6	55.6	186.6	358.2	426.6	264.3	428.9	1546.5	2261.7	2592.1	2498.2
87.5°	0.0	0.0	53.3	111.3	98.5	37.1	114.8	492.7	740.8	882.2	761.6
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°	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1	8939.1
2.5°	8992.4	8907.8	8803.4	8649.3	8531.0	8431.3	8369.9	8256.3	8227.3	8220.3	8189.0
5°	9028.3	8871.8	8616.8	8347.8	8129.9	7920.1	7784.4	7673.2	7581.6	7601.3	7520.1
7.5°	9108.3	8885.7	8491.6	8103.2	7745.0	7473.8	7258.1	7056.4	6967.2	6967.2	6911.5
10°	9176.7	8888.1	8381.5	7871.4	7401.9	7017.0	6739.9	6553.3	6408.4	6363.2	6344.6
12.5°	9272.9	8899.7	8244.7	7626.8	7086.6	6566.1	6242.6	6013.1	5896.0	5853.1	5747.6
15°	9445.7	8978.5	8120.6	7353.2	6709.8	6144.1	5737.2	5511.1	5376.7	5329.1	5309.4
17.5°	9727.4	9136.1	8034.8	7052.9	6338.8	5727.9	5288.6	5017.3	4878.2	4766.9	4754.1
20°	10105.3	9388.9	8008.2	6815.3	5943.5	5315.2	4791.2	4464.3	4202.3	4042.3	4044.7
22.5°	10671.0	9758.7	8056.9	6600.8	5602.7	4896.7	4289.3	3793.1	3353.7	3161.3	3118.4
25°	11466.3	10317.4	8185.5	6425.8	5260.7	4465.5	3604.1	2872.7	2449.5	2253.6	2210.7
27.5°	12485.2	11104.6	8424.4	6277.4	4937.3	3861.5	2771.8	2061.2	1677.5	1503.6	1431.7
30°	13586.5	12088.8	8803.4	6155.7	4526.9	3026.8	1973.1	1417.8	1063.0	950.6	950.6
32.5°	15171.3	13275.9	9288.0	6016.6	3989.0	2174.8	1314.6	915.8	673.5	599.3	599.3
35°	16863.8	14665.8	9898.9	5856.6	3225.1	1487.3	818.4	540.2	445.2	446.3	445.2
37.5°	18330.2	15892.3	10487.8	5613.1	2352.1	951.8	484.6	391.8	379.1	368.6	379.1
40°	19945.1	17176.8	10915.6	5215.5	1544.1	550.6	345.5	352.4	338.5	314.2	306.0
42.5°	21382.6	18338.4	11205.4	4582.6	972.6	343.1	302.6	316.5	314.2	280.5	259.7
45°	22909.3	19584.6	11336.4	3627.3	534.4	310.7	266.6	295.6	294.5	256.2	235.3
47.5°	24410.6	20736.9	11280.8	2469.2	360.5	284.0	245.8	263.2	271.3	234.2	212.1
50°	26355.8	21779.1	10968.9	1420.1	329.2	265.5	228.4	222.6	240.0	201.7	189.0
52.5°	27873.3	22830.5	10336.0	761.6	311.8	252.7	211.0	186.6	201.7	165.8	175.0
55°	29238.9	23726.6	9228.9	525.1	308.4	240.0	202.9	164.6	168.1	143.7	141.4
57.5°	30597.6	24577.5	7825.0	462.5	313.0	241.1	184.3	143.7	131.0	117.1	97.4
60°	31688.4	25453.9	6256.5	424.3	315.3	238.8	161.1	125.2	95.1	80.0	76.5
62.5°	32525.4	25931.5	4695.0	395.3	307.2	219.1	146.1	104.3	76.5	58.0	55.6
65°	32921.9	25877.0	3163.6	365.2	303.7	209.8	134.5	88.1	60.3	45.2	42.9
67.5°	32282.0	24593.7	2009.0	335.0	297.9	200.6	126.4	76.5	52.2	37.1	34.8
70°	30135.0	22445.6	1194.0	300.2	282.9	184.3	121.7	68.4	45.2	29.0	24.3
72.5°	26692.0	19415.3	753.5	251.6	256.2	155.3	90.4	58.0	38.3	17.4	15.1
75°	22409.7	15594.4	544.9	186.6	208.7	122.9	71.9	49.8	31.3	10.4	9.3
77.5°	17402.8	10500.6	417.3	122.9	139.1	86.9	51.0	38.3	23.2	5.8	4.6
80°	10613.0	6057.1	328.1	69.6	85.8	51.0	23.2	24.3	10.4	1.2	0.0
82.5°	5120.5	2771.8	190.1	37.1	29.0	26.7	5.8	0.0	1.2	0.0	0.0
85°	1791.1	834.7	35.9	22.0	9.3	8.1	0.0	0.0	0.0	0.0	0.0
87.5°	479.9	148.4	10.4	9.3	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)