

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: P622417

Luminaire Tested: **PRV-M-C200-D-U-T3-BZ-7050-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C200-D-U-T3-BZ-7050-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46617 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

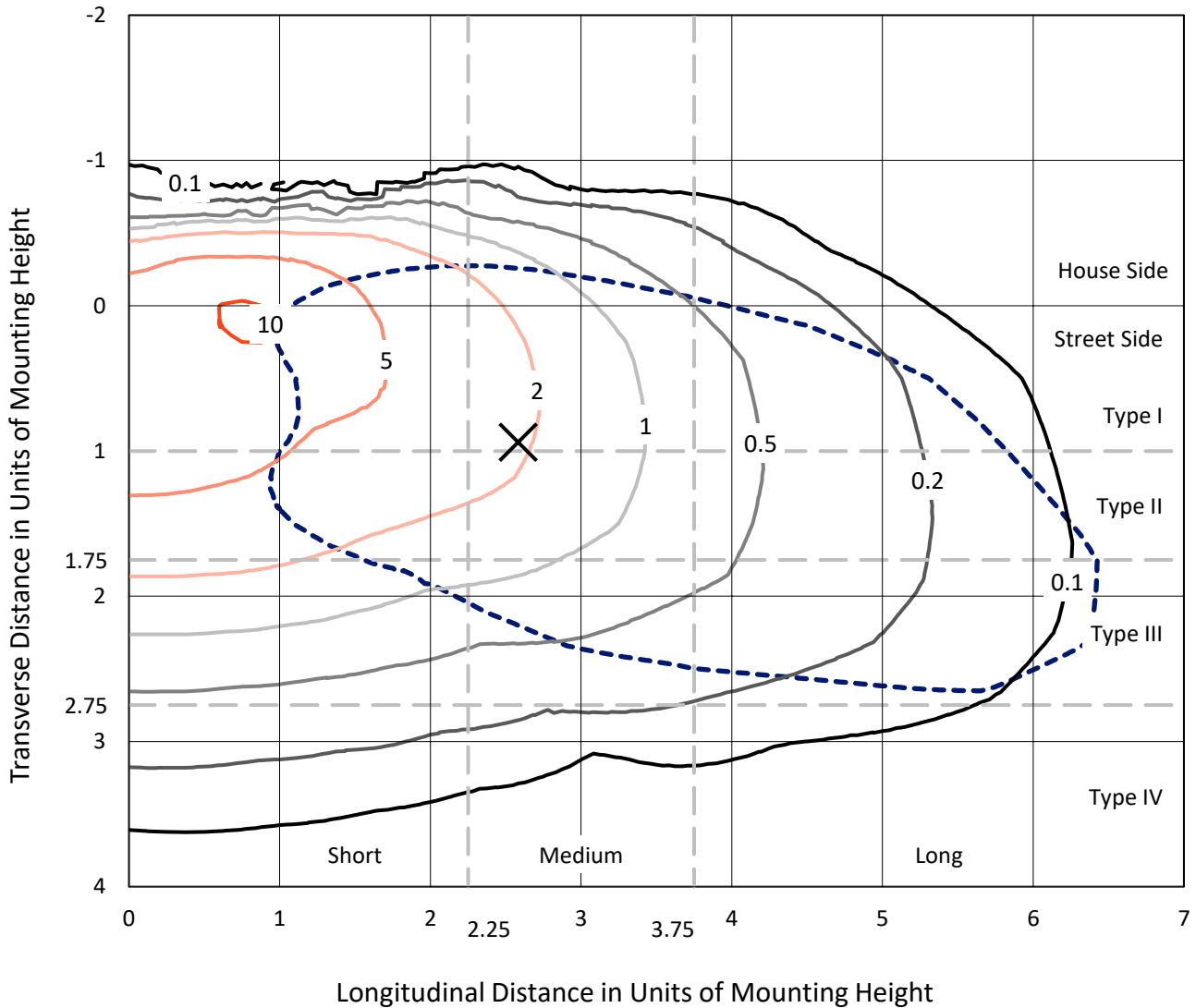
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

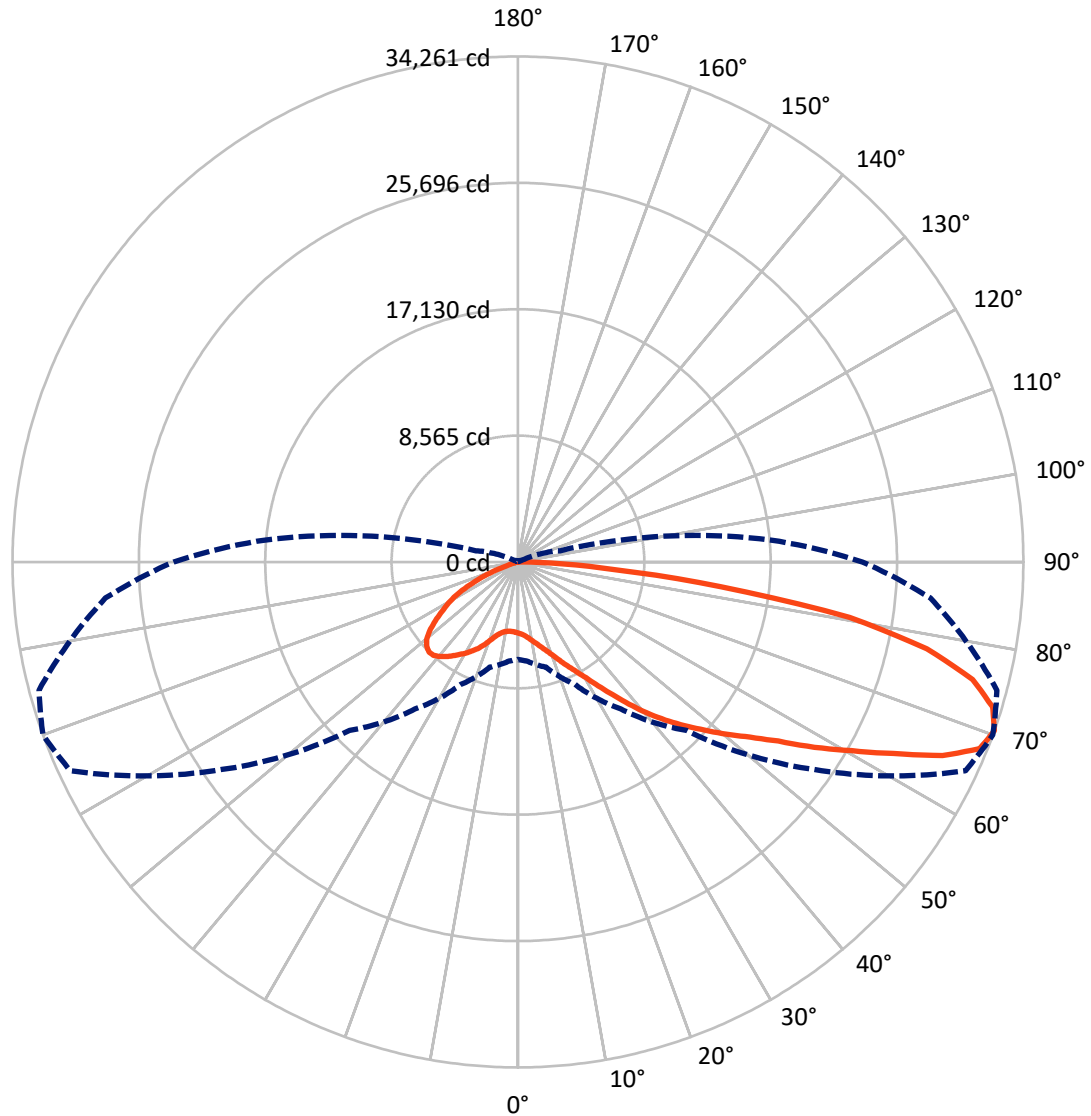
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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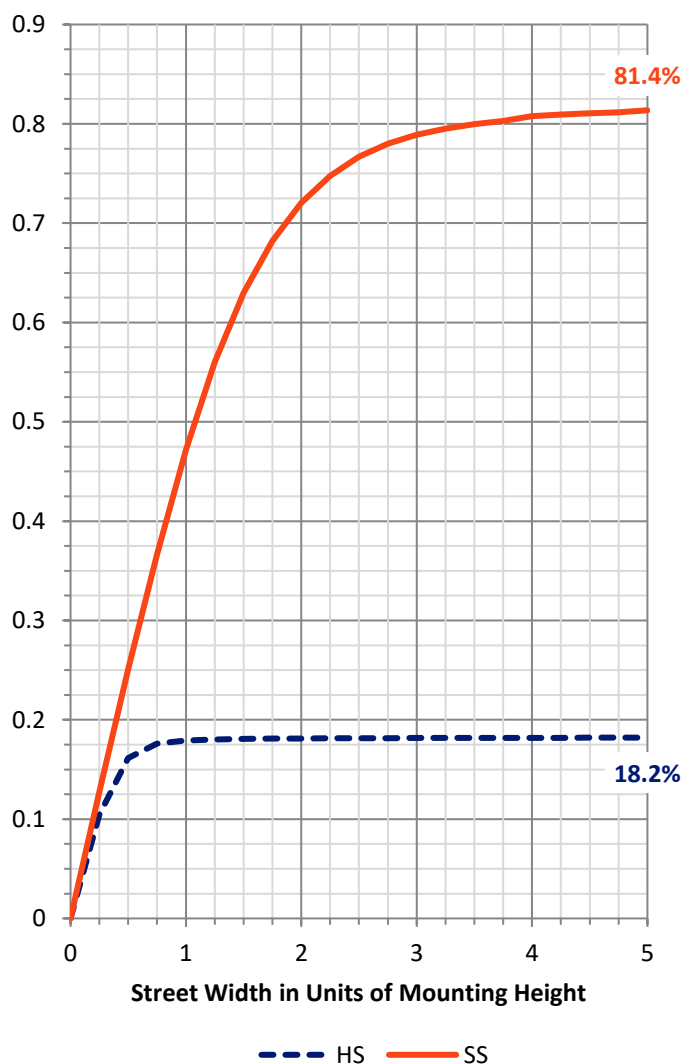
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8581.3	0.0	8581.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	38035.7	0.0	38035.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	46617.0	0.0	46617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	1.0
10°-20°	1444.9	3.1
20°-30°	2662.1	5.7
30°-40°	4446.0	9.5
40°-50°	6936.4	14.9
50°-60°	9513.7	20.4
60°-70°	11291.3	24.2
70°-80°	8323.0	17.9
80°-90°	1536.1	3.3
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°	46617.0	100.0
0°-180°	46617.0	100.0

Coefficient of Utilization



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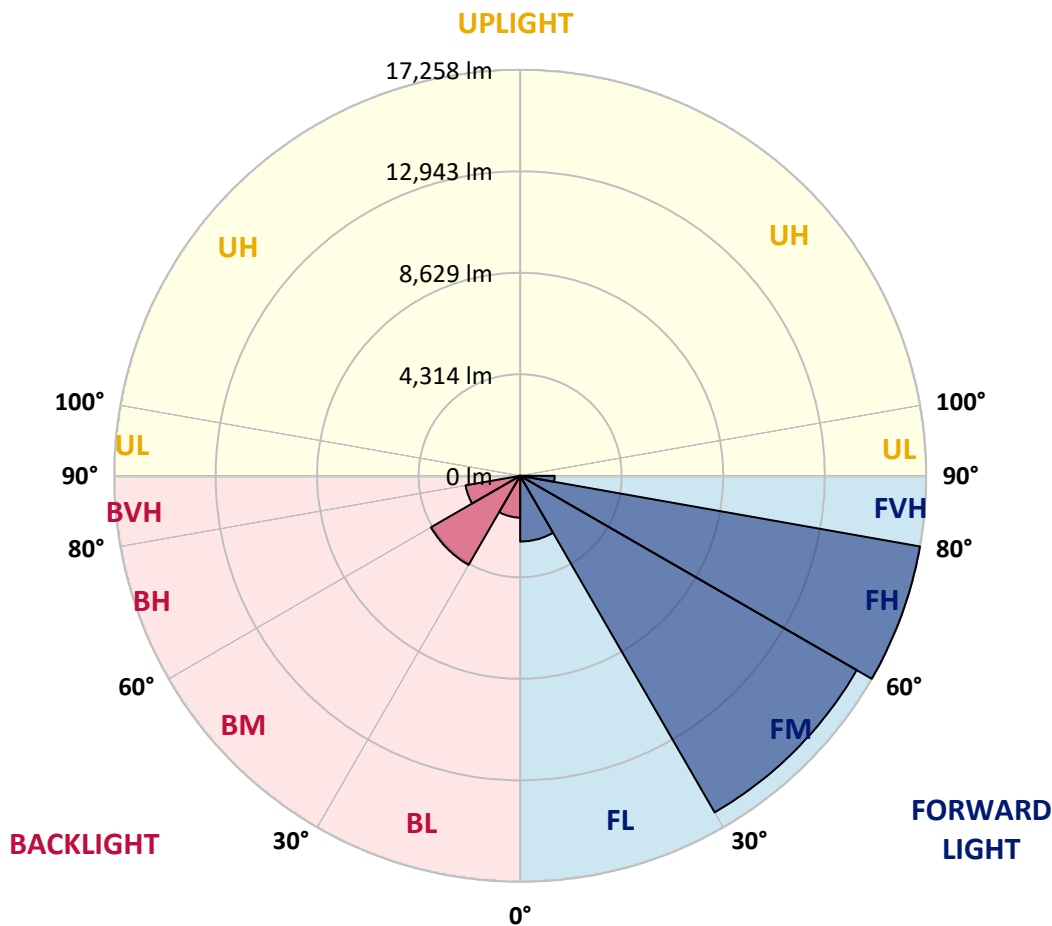
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.8	6.0			
FM (30°-60°)	16519.2	35.4			
FH (60°-80°)	17257.6	37.0			G5
FVH (80°-90°)	1465.1	3.1			G5
BL (0°-30°)	1776.7	3.8	B3/2500		
BM (30°-60°)	4376.9	9.4	B3/5000		
BH (60°-80°)	2356.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	71.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8
2.5°	5031.6	5039.7	5059.1	5021.4	5021.4	4959.3	4955.2	4934.9	4899.2	4886.0	4867.7
5°	5255.6	5270.9	5272.9	5244.4	5223.1	5159.9	5120.2	5079.5	5028.5	5002.1	4945.0
7.5°	5428.8	5440.0	5463.4	5445.0	5432.8	5350.3	5329.0	5276.0	5205.7	5162.0	5070.3
10°	5547.9	5584.6	5603.9	5599.8	5625.3	5565.2	5558.1	5500.0	5429.8	5368.7	5257.7
12.5°	5639.6	5671.1	5711.9	5740.4	5788.2	5787.2	5785.2	5750.5	5688.4	5608.0	5479.7
15°	5707.8	5746.5	5813.7	5880.9	5963.4	5987.8	6058.1	6048.9	5986.8	5916.5	5754.6
17.5°	5863.6	5898.2	5952.2	6032.6	6144.6	6215.9	6333.0	6369.7	6340.2	6267.9	6087.6
20°	6092.7	6100.9	6153.8	6227.1	6351.4	6497.0	6704.7	6797.4	6736.3	6705.7	6534.7
22.5°	6363.6	6388.0	6395.2	6462.4	6584.6	6799.4	7084.6	7238.3	7248.5	7177.2	7052.0
25°	6673.2	6681.3	6667.1	6722.0	6896.2	7146.7	7484.8	7730.2	7793.3	7775.0	7738.3
27.5°	7000.0	7049.9	7051.0	7068.3	7229.2	7502.1	7933.9	8324.9	8407.4	8447.1	8610.0
30°	7808.6	7829.0	7745.5	7595.8	7643.6	7942.0	8447.1	8960.3	9105.0	9277.1	9751.6
32.5°	8837.1	8799.5	8677.2	8406.4	8207.8	8443.0	8988.9	9654.9	10008.2	10396.2	10888.1
35°	9836.1	9809.6	9712.9	9442.0	9099.9	8988.9	9565.2	10463.4	11043.9	11808.6	12220.0
37.5°	10772.0	10798.4	10726.1	10459.3	10068.3	9798.4	10204.8	11311.7	12219.0	13211.9	13559.2
40°	11687.5	11709.9	11685.4	11449.2	11223.1	10839.2	10944.1	12218.0	13449.2	14553.1	14842.3
42.5°	12409.5	12493.0	12583.6	12323.9	12217.0	11985.8	11720.0	13053.0	14648.8	15832.1	16043.9
45°	13017.4	13005.2	13108.0	13117.2	13161.0	13055.1	12715.0	13983.8	15814.8	17053.1	17103.0
47.5°	13457.3	13411.5	13511.3	13796.4	14070.4	14042.9	13867.7	14935.9	17016.4	18216.0	18151.9
50°	13688.5	13691.5	13924.7	14392.2	14938.0	15085.6	15035.7	16302.6	18361.6	19467.5	19228.2
52.5°	13869.8	13947.1	14328.0	14933.9	15818.8	16146.8	16227.2	17996.1	19712.0	20699.7	20245.6
55°	13951.2	14084.6	14515.4	15282.2	16452.3	17127.4	17444.1	19772.0	21420.7	22234.4	21334.2
57.5°	13522.5	13680.3	14334.1	15371.8	16887.1	17875.9	18702.8	21876.9	23697.7	23921.8	22612.2
60°	12515.4	12619.2	13664.0	15186.5	16986.9	18563.3	20150.9	24441.1	25966.6	25912.6	23931.9
62.5°	11527.6	11590.7	12546.9	14484.8	16707.9	18899.3	21626.4	27294.5	28583.7	28022.6	25225.2
65°	10177.3	10277.1	11352.4	13209.9	15829.0	18744.5	23193.6	30303.7	31636.7	31090.8	26633.6
67.5°	8565.2	8669.1	9576.4	11358.5	14398.3	17937.0	24066.4	32586.8	33751.8	33067.4	27611.2
70°	6608.0	6733.2	7382.9	9158.9	12169.1	16153.9	24521.6	33476.8	34260.9	33610.2	28062.3
72.5°	4593.7	4713.9	5112.1	6242.4	9278.1	13566.3	24107.1	33306.7	33646.9	33046.1	27158.0
75°	2952.2	3124.3	3445.0	4172.1	5469.5	9807.6	21595.9	31634.6	31829.1	30935.0	24824.0
77.5°	449.1	512.2	1878.8	2445.0	3449.1	4704.7	15309.7	27996.1	28340.3	27313.8	21555.1
80°	316.7	327.9	810.6	1574.3	2082.5	2629.3	7099.8	20349.4	22805.7	21512.4	15192.6
82.5°	226.1	244.4	384.9	1029.5	1161.9	1008.2	2311.6	11536.7	13842.3	13772.0	8099.9
85°	142.6	157.8	234.2	354.4	627.3	592.7	741.3	4747.5	6463.4	6486.8	3155.8
87.5°	75.4	82.5	136.5	208.8	295.3	329.9	362.5	1354.4	2279.0	2170.1	701.6
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°	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8
2.5°	4836.1	4820.8	4789.2	4735.3	4682.3	4645.7	4637.5	4584.6	4578.4	4583.5	4581.5
5°	4897.2	4860.5	4779.1	4671.1	4565.2	4478.6	4417.5	4329.0	4289.2	4275.0	4292.3
7.5°	5007.2	4944.0	4811.6	4645.7	4475.6	4326.9	4207.8	4091.7	4034.7	3991.9	3959.3
10°	5166.0	5079.5	4885.0	4653.8	4419.6	4215.9	4026.5	3861.5	3747.5	3683.3	3664.0
12.5°	5378.9	5260.7	5004.1	4710.8	4405.3	4124.3	3865.6	3633.4	3479.7	3392.1	3375.8
15°	5621.2	5505.1	5199.6	4841.2	4467.4	4107.0	3775.0	3478.6	3229.1	3103.9	3068.2
17.5°	5943.0	5813.7	5483.7	5068.3	4613.1	4151.8	3704.7	3285.2	2935.9	2766.8	2744.4
20°	6394.1	6256.7	5889.0	5369.7	4804.5	4196.6	3603.9	3061.1	2605.9	2378.8	2327.9
22.5°	6929.8	6807.6	6379.9	5685.4	4956.2	4184.3	3445.0	2733.2	2168.0	1908.4	1863.6
25°	7664.0	7545.9	6886.0	5947.1	5032.6	4095.8	3176.2	2287.2	1637.5	1368.6	1351.3
27.5°	8557.1	8297.4	7334.1	6158.9	5004.1	3865.6	2736.3	1662.9	1100.8	889.0	863.5
30°	9508.2	9096.8	7835.1	6330.0	4923.7	3500.0	2086.6	1095.7	690.4	581.5	559.1
32.5°	10621.3	10067.3	8310.6	6446.1	4739.3	2988.8	1420.6	673.1	436.9	371.7	367.6
35°	11794.4	11088.7	8898.2	6508.2	4406.3	2308.6	812.6	393.1	272.9	265.8	265.8
37.5°	13044.9	12195.6	9535.7	6517.4	3901.2	1517.3	470.5	235.2	209.8	241.3	253.6
40°	14189.5	13197.6	10181.3	6431.8	3258.7	867.6	259.7	179.2	188.4	223.0	234.2
42.5°	15285.2	14167.1	10814.7	6229.2	2337.1	476.6	183.3	156.8	167.0	185.3	189.4
45°	16266.9	15038.8	11294.4	5856.5	1449.1	267.8	166.0	137.5	138.5	151.7	153.8
47.5°	17217.0	15851.4	11597.8	5284.2	749.5	221.0	151.7	124.2	121.2	134.4	138.5
50°	18119.3	16609.1	11777.1	4502.1	385.9	204.7	143.6	114.1	115.1	140.5	142.6
52.5°	18993.0	17332.1	11821.9	3387.0	266.8	184.3	131.4	106.9	111.0	145.6	150.7
55°	19932.9	18089.7	11722.1	2031.6	251.5	169.0	119.1	96.7	104.9	118.1	120.2
57.5°	20793.4	18841.3	11351.4	861.5	238.3	154.8	107.9	88.6	84.5	95.7	99.8
60°	21744.6	19556.1	10467.5	406.3	222.0	138.5	96.7	78.4	72.3	79.4	83.5
62.5°	23073.5	20092.8	8960.3	305.5	208.8	128.3	86.6	71.3	65.2	69.2	73.3
65°	23793.4	20144.7	6998.0	266.8	198.6	120.2	79.4	67.2	58.0	60.1	64.2
67.5°	24070.4	19121.3	5074.4	232.2	184.3	112.0	73.3	63.1	54.0	51.9	54.0
70°	23349.4	17149.8	2949.1	213.9	167.0	103.9	69.2	61.1	49.9	43.8	43.8
72.5°	21247.6	14445.1	1222.0	190.4	148.7	92.7	65.2	63.1	47.9	34.6	34.6
75°	18300.5	11255.7	364.6	157.8	127.3	84.5	65.2	65.2	46.8	26.5	26.5
77.5°	14531.7	7017.4	216.9	123.2	100.8	75.4	64.2	62.1	35.6	20.4	19.3
80°	8259.7	2489.8	157.8	91.7	77.4	62.1	57.0	50.9	26.5	17.3	17.3
82.5°	3300.4	564.2	112.0	65.2	63.1	47.9	37.7	29.5	21.4	15.3	15.3
85°	865.6	178.2	67.2	42.8	38.7	35.6	13.2	12.2	17.3	14.3	14.3
87.5°	142.6	71.3	35.6	32.6	24.4	17.3	6.1	6.1	10.2	12.2	13.2
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)