

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: P622415

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622415
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-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K 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: 45778 lumens
Efficiency: N/A
Efficacy: 132.3 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

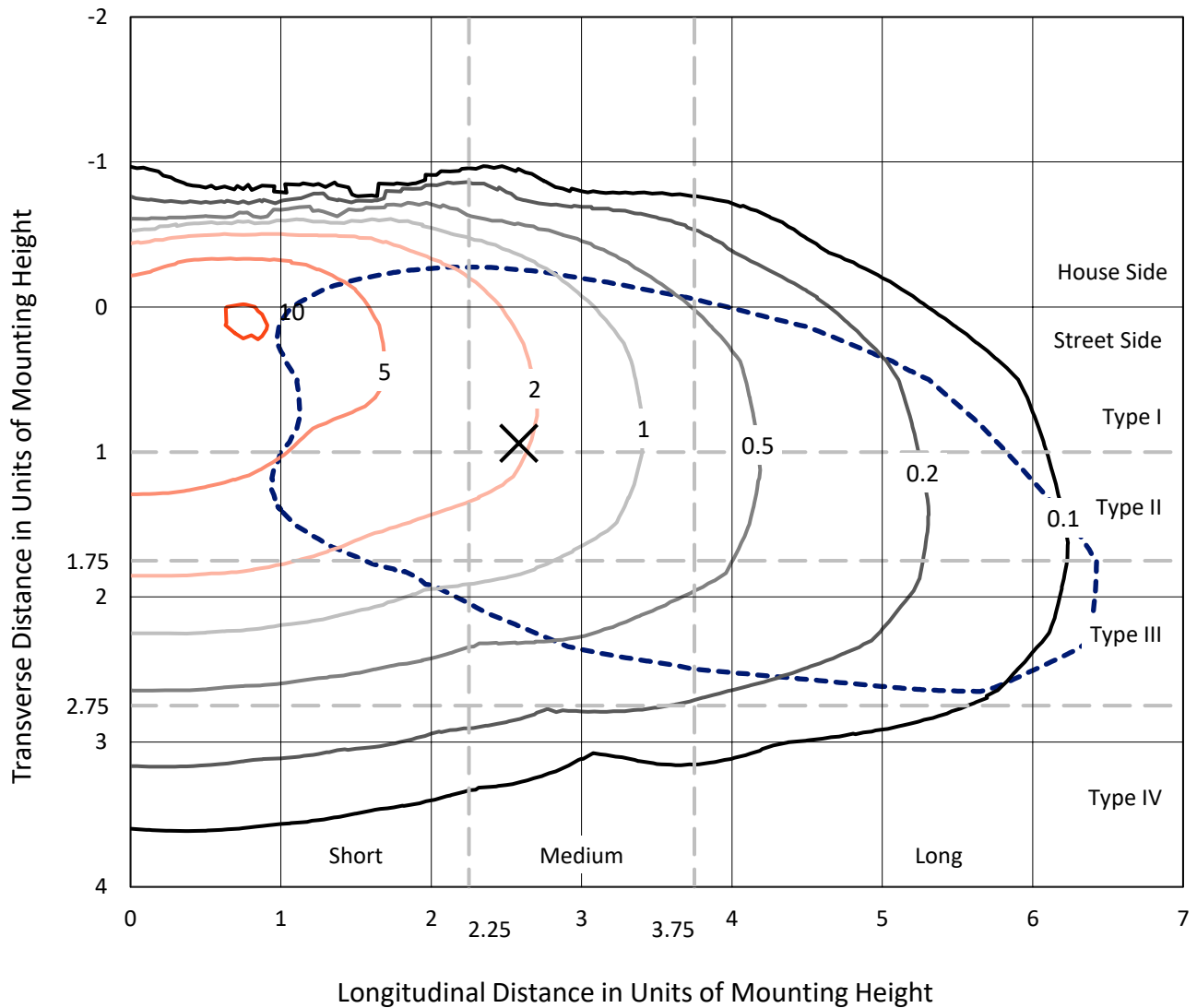
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

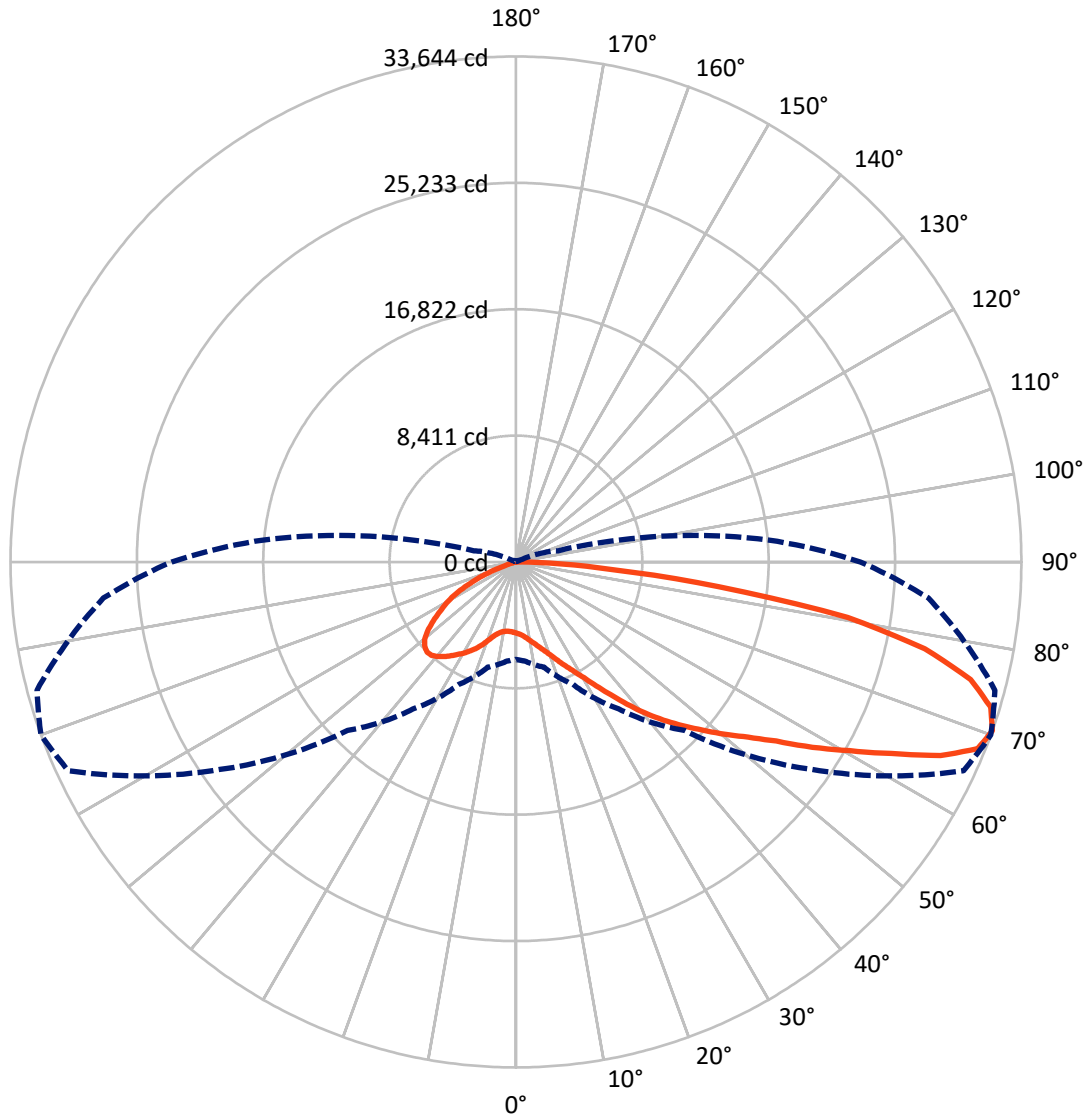
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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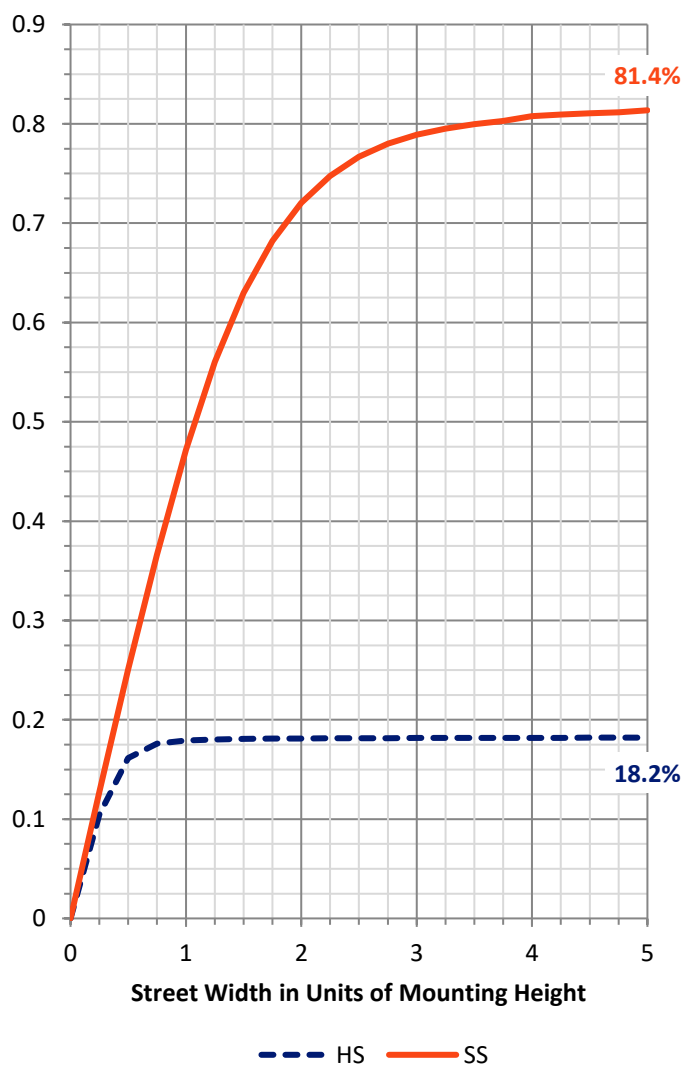
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8426.8	0.0	8426.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	37351.2	0.0	37351.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	45778.0	0.0	45778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.2	1.0
10°-20°	1418.9	3.1
20°-30°	2614.2	5.7
30°-40°	4366.0	9.5
40°-50°	6811.6	14.9
50°-60°	9342.4	20.4
60°-70°	11088.0	24.2
70°-80°	8173.2	17.9
80°-90°	1508.4	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°	45778.0	100.0
0°-180°	45778.0	100.0

Coefficient of Utilization



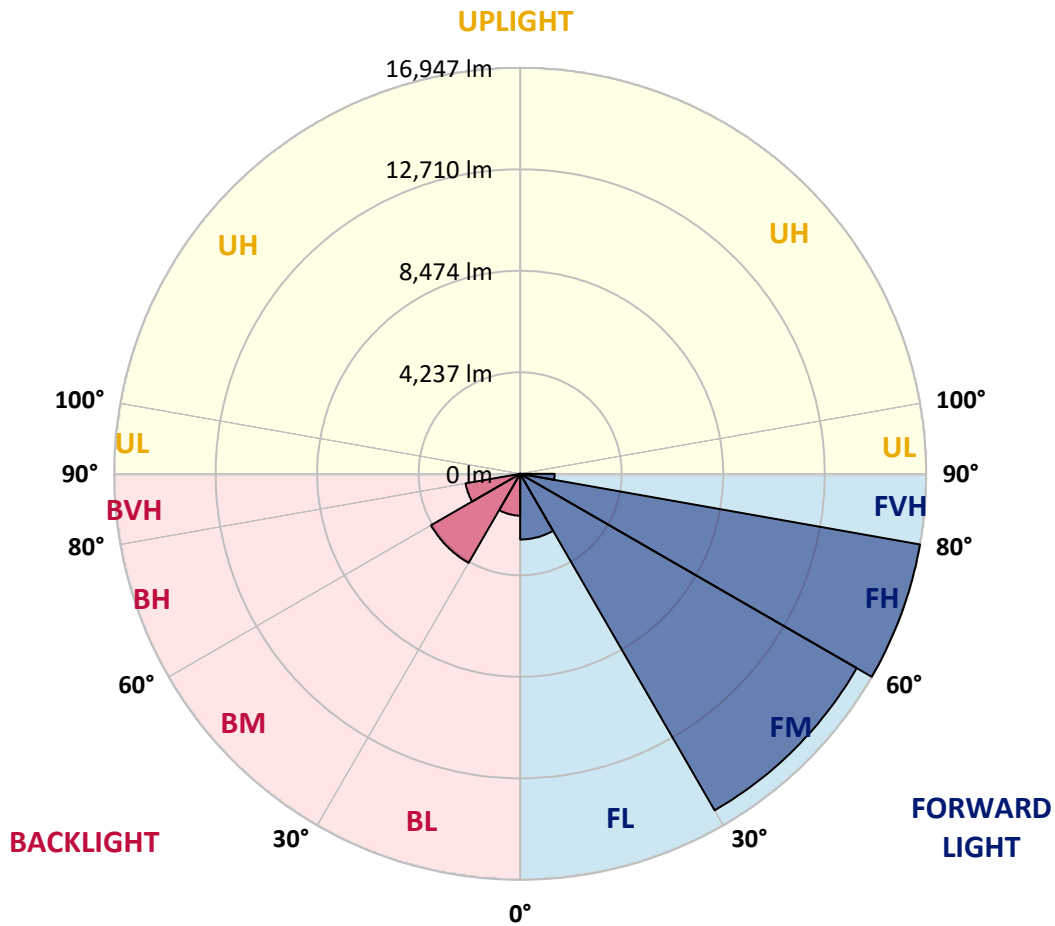
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2743.5	6.0			
FM (30°-60°)	16221.9	35.4			
FH (60°-80°)	16947.0	37.0			G5
FVH (80°-90°)	1438.8	3.1			G5
BL (0°-30°)	1744.7	3.8	B3/2500		
BM (30°-60°)	4298.1	9.4	B3/5000		
BH (60°-80°)	2314.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	69.7	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°	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0
2.5°	4941.0	4949.0	4968.0	4931.0	4931.0	4870.0	4866.0	4846.0	4811.0	4798.0	4780.0
5°	5161.0	5176.0	5178.0	5150.0	5129.0	5067.0	5028.0	4988.0	4938.0	4912.0	4856.0
7.5°	5331.0	5342.0	5365.0	5347.0	5335.0	5254.0	5233.0	5181.0	5112.0	5069.0	4979.0
10°	5448.1	5484.1	5503.1	5499.1	5524.1	5465.1	5458.1	5401.1	5332.0	5272.0	5163.0
12.5°	5538.1	5569.1	5609.1	5637.1	5684.1	5683.1	5681.1	5647.1	5586.1	5507.1	5381.0
15°	5605.1	5643.1	5709.1	5775.1	5856.1	5880.1	5949.1	5940.1	5879.1	5810.1	5651.1
17.5°	5758.1	5792.1	5845.1	5924.1	6034.1	6104.1	6219.1	6255.1	6226.1	6155.1	5978.1
20°	5983.1	5991.1	6043.1	6115.1	6237.1	6380.1	6584.1	6675.1	6615.1	6585.1	6417.1
22.5°	6249.1	6273.1	6280.1	6346.1	6466.1	6677.1	6957.1	7108.1	7118.1	7048.1	6925.1
25°	6553.1	6561.1	6547.1	6601.1	6772.1	7018.1	7350.1	7591.1	7653.1	7635.1	7599.1
27.5°	6874.1	6923.1	6924.1	6941.1	7099.1	7367.1	7791.1	8175.1	8256.1	8295.1	8455.1
30°	7668.1	7688.1	7606.1	7459.1	7506.1	7799.1	8295.1	8799.1	8941.1	9110.1	9576.1
32.5°	8678.1	8641.1	8521.1	8255.1	8060.1	8291.1	8827.1	9481.1	9828.1	10209.1	10692.1
35°	9659.1	9633.1	9538.1	9272.1	8936.1	8827.1	9393.1	10275.1	10845.1	11596.1	12000.1
37.5°	10578.1	10604.1	10533.1	10271.1	9887.1	9622.1	10021.1	11108.1	11999.1	12974.1	13315.1
40°	11477.1	11499.1	11475.1	11243.1	11021.1	10644.1	10747.1	11998.1	13207.1	14291.1	14575.1
42.5°	12186.1	12268.1	12357.1	12102.1	11997.1	11770.1	11509.1	12818.1	14385.1	15547.1	15755.1
45°	12783.1	12771.1	12872.1	12881.1	12924.1	12820.1	12486.1	13732.1	15530.1	16746.2	16795.2
47.5°	13215.1	13170.1	13268.1	13548.1	13817.1	13790.1	13618.1	14667.1	16710.2	17888.2	17825.2
50°	13442.1	13445.1	13674.1	14133.1	14669.1	14814.1	14765.1	16009.1	18031.2	19117.2	18882.2
52.5°	13620.1	13696.1	14070.1	14665.1	15534.1	15856.1	15935.1	17672.2	19357.2	20327.2	19881.2
55°	13700.1	13831.1	14254.1	15007.1	16156.2	16819.2	17130.2	19416.2	21035.2	21834.2	20950.2
57.5°	13279.1	13434.1	14076.1	15095.1	16583.2	17554.2	18366.2	21483.2	23271.2	23491.2	22205.2
60°	12290.1	12392.1	13418.1	14913.1	16681.2	18229.2	19788.2	24001.2	25499.2	25446.2	23501.2
62.5°	11320.1	11382.1	12321.1	14224.1	16407.2	18559.2	21237.2	26803.2	28069.3	27518.3	24771.2
65°	9994.1	10092.1	11148.1	12972.1	15544.1	18407.2	22776.2	29758.3	31067.3	30531.3	26154.2
67.5°	8411.1	8513.1	9404.1	11154.1	14139.1	17614.2	23633.2	32000.3	33144.3	32472.3	27114.3
70°	6489.1	6612.1	7250.1	8994.1	11950.1	15863.1	24080.2	32874.3	33644.3	33005.3	27557.3
72.5°	4511.0	4629.0	5020.0	6130.1	9111.1	13322.1	23673.2	32707.3	33041.3	32451.3	26669.2
75°	2899.0	3068.0	3383.0	4097.0	5371.0	9631.1	21207.2	31065.3	31256.3	30378.3	24377.2
77.5°	441.0	503.0	1845.0	2401.0	3387.0	4620.0	15034.1	27492.3	27830.3	26822.2	21167.2
80°	311.0	322.0	796.0	1546.0	2045.0	2582.0	6972.1	19983.2	22395.2	21125.2	14919.1
82.5°	222.0	240.0	378.0	1011.0	1141.0	990.0	2270.0	11329.1	13593.1	13524.1	7954.1
85°	140.0	155.0	230.0	348.0	616.0	582.0	728.0	4662.0	6347.1	6370.1	3099.0
87.5°	74.0	81.0	134.0	205.0	290.0	324.0	356.0	1330.0	2238.0	2131.0	689.0
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°	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0	4735.0
2.5°	4749.0	4734.0	4703.0	4650.0	4598.0	4562.0	4554.0	4502.0	4496.0	4501.0	4499.0
5°	4809.0	4773.0	4693.0	4587.0	4483.0	4398.0	4338.0	4251.0	4212.0	4198.0	4215.0
7.5°	4917.0	4855.0	4725.0	4562.0	4395.0	4249.0	4132.0	4018.0	3962.0	3920.0	3888.0
10°	5073.0	4988.0	4797.0	4570.0	4340.0	4140.0	3954.0	3792.0	3680.0	3617.0	3598.0
12.5°	5282.0	5166.0	4914.0	4626.0	4326.0	4050.0	3796.0	3568.0	3417.0	3331.0	3315.0
15°	5520.1	5406.1	5106.0	4754.0	4387.0	4033.0	3707.0	3416.0	3171.0	3048.0	3013.0
17.5°	5836.1	5709.1	5385.1	4977.0	4530.0	4077.0	3638.0	3226.0	2883.0	2717.0	2695.0
20°	6279.1	6144.1	5783.1	5273.0	4718.0	4121.0	3539.0	3006.0	2559.0	2336.0	2286.0
22.5°	6805.1	6685.1	6265.1	5583.1	4867.0	4109.0	3383.0	2684.0	2129.0	1874.0	1830.0
25°	7526.1	7410.1	6762.1	5840.1	4942.0	4022.0	3119.0	2246.0	1608.0	1344.0	1327.0
27.5°	8403.1	8148.1	7202.1	6048.1	4914.0	3796.0	2687.0	1633.0	1081.0	873.0	848.0
30°	9337.1	8933.1	7694.1	6216.1	4835.0	3437.0	2049.0	1076.0	678.0	571.0	549.0
32.5°	10430.1	9886.1	8161.1	6330.1	4654.0	2935.0	1395.0	661.0	429.0	365.0	361.0
35°	11582.1	10889.1	8738.1	6391.1	4327.0	2267.0	798.0	386.0	268.0	261.0	261.0
37.5°	12810.1	11976.1	9364.1	6400.1	3831.0	1490.0	462.0	231.0	206.0	237.0	249.0
40°	13934.1	12960.1	9998.1	6316.1	3200.0	852.0	255.0	176.0	185.0	219.0	230.0
42.5°	15010.1	13912.1	10620.1	6117.1	2295.0	468.0	180.0	154.0	164.0	182.0	186.0
45°	15974.1	14768.1	11091.1	5751.1	1423.0	263.0	163.0	135.0	136.0	149.0	151.0
47.5°	16907.2	15566.1	11389.1	5189.0	736.0	217.0	149.0	122.0	119.0	132.0	136.0
50°	17793.2	16310.2	11565.1	4421.0	379.0	201.0	141.0	112.0	113.0	138.0	140.0
52.5°	18651.2	17020.2	11609.1	3326.0	262.0	181.0	129.0	105.0	109.0	143.0	148.0
55°	19574.2	17764.2	11511.1	1995.0	247.0	166.0	117.0	95.0	103.0	116.0	118.0
57.5°	20419.2	18502.2	11147.1	846.0	234.0	152.0	106.0	87.0	83.0	94.0	98.0
60°	21353.2	19204.2	10279.1	399.0	218.0	136.0	95.0	77.0	71.0	78.0	82.0
62.5°	22658.2	19731.2	8799.1	300.0	205.0	126.0	85.0	70.0	64.0	68.0	72.0
65°	23365.2	19782.2	6872.1	262.0	195.0	118.0	78.0	66.0	57.0	59.0	63.0
67.5°	23637.2	18777.2	4983.0	228.0	181.0	110.0	72.0	62.0	53.0	51.0	53.0
70°	22929.2	16841.2	2896.0	210.0	164.0	102.0	68.0	60.0	49.0	43.0	43.0
72.5°	20865.2	14185.1	1200.0	187.0	146.0	91.0	64.0	62.0	47.0	34.0	34.0
75°	17971.2	11053.1	358.0	155.0	125.0	83.0	64.0	64.0	46.0	26.0	26.0
77.5°	14270.1	6891.1	213.0	121.0	99.0	74.0	63.0	61.0	35.0	20.0	19.0
80°	8111.1	2445.0	155.0	90.0	76.0	61.0	56.0	50.0	26.0	17.0	17.0
82.5°	3241.0	554.0	110.0	64.0	62.0	47.0	37.0	29.0	21.0	15.0	15.0
85°	850.0	175.0	66.0	42.0	38.0	35.0	13.0	12.0	17.0	14.0	14.0
87.5°	140.0	70.0	35.0	32.0	24.0	17.0	6.0	6.0	10.0	12.0	13.0
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)