

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: P622427

Luminaire Tested: **PRV-M-C200-D-U-T4-BZ-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-6)
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-T4-BZ-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46228 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

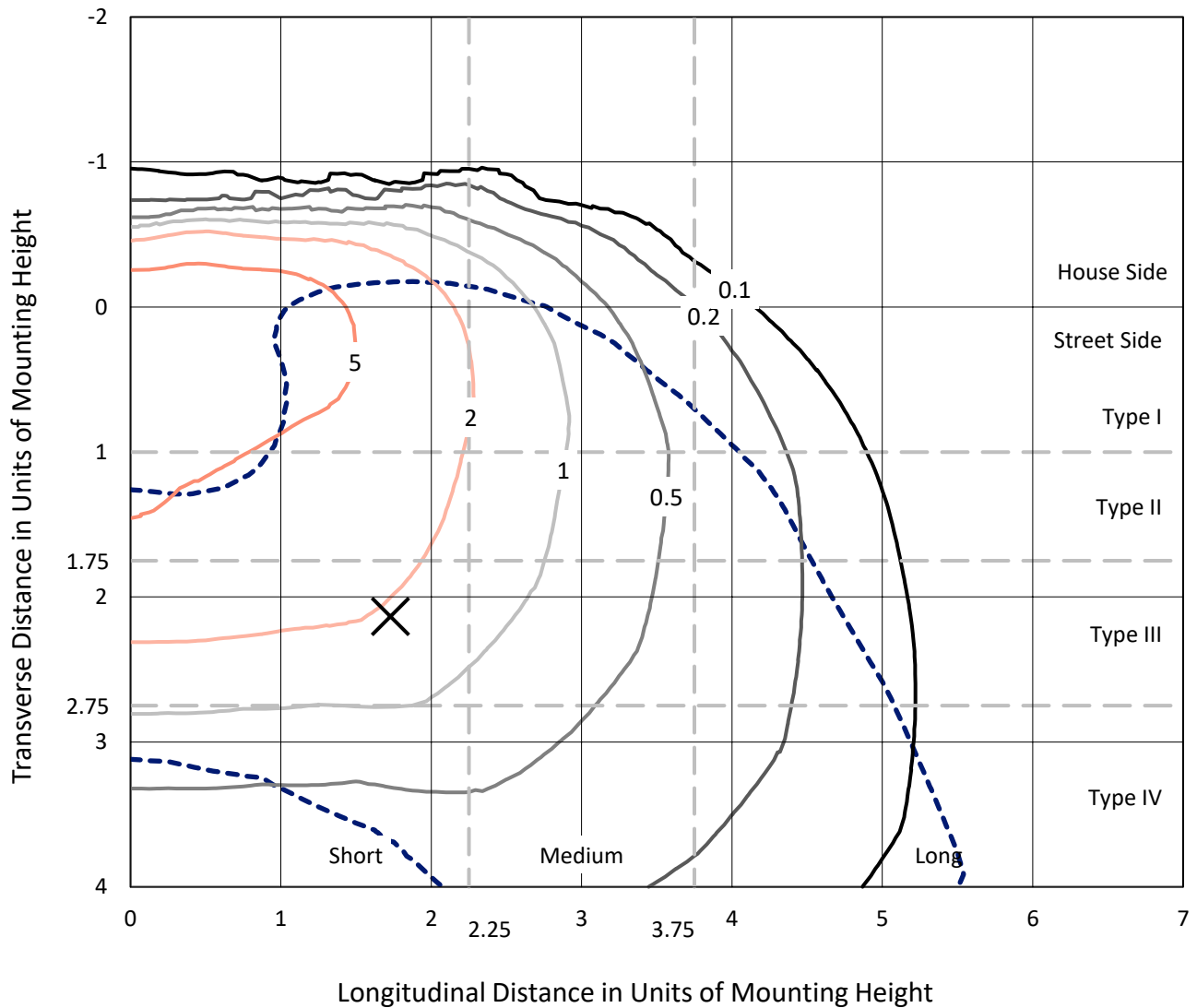
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

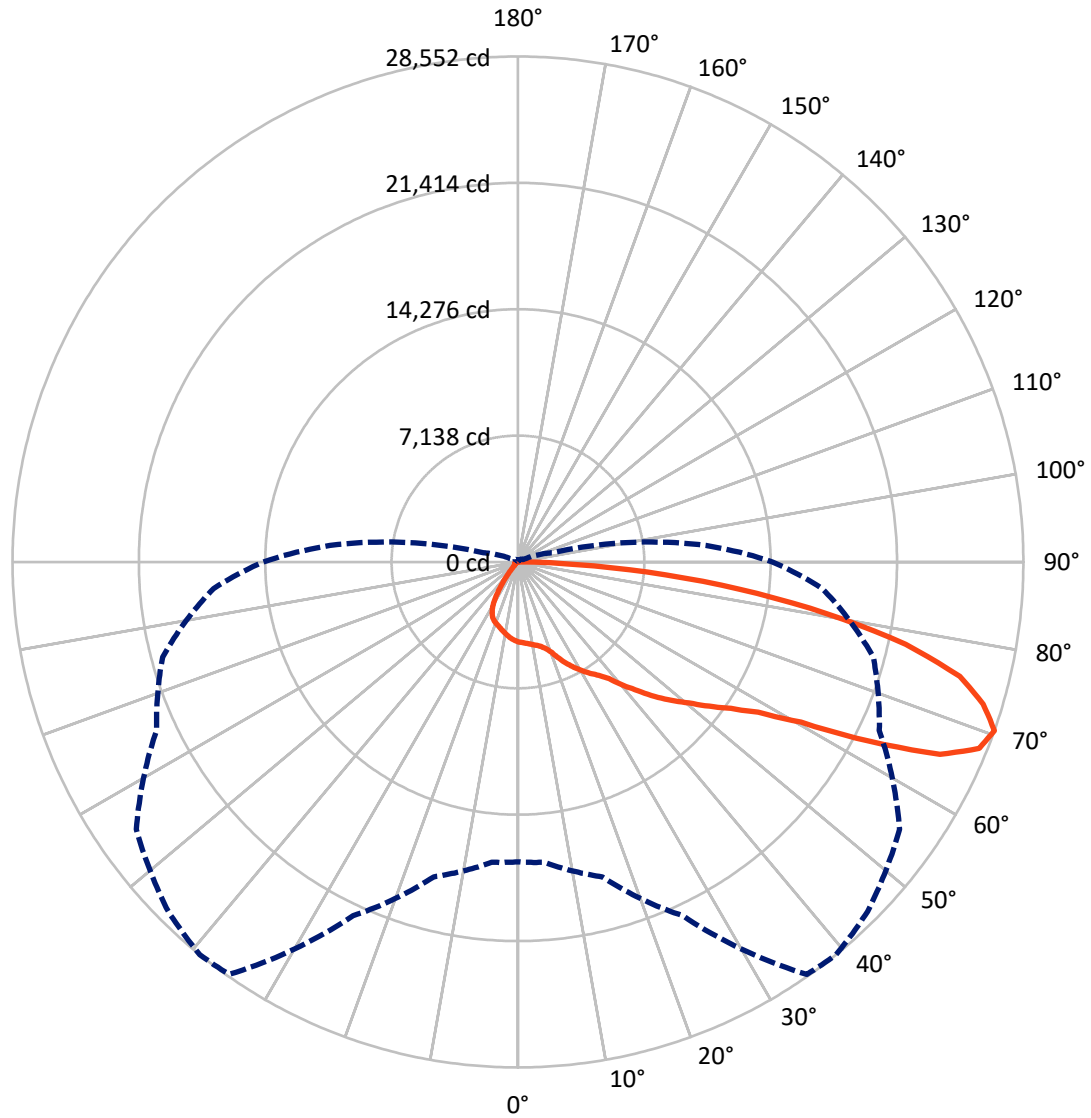
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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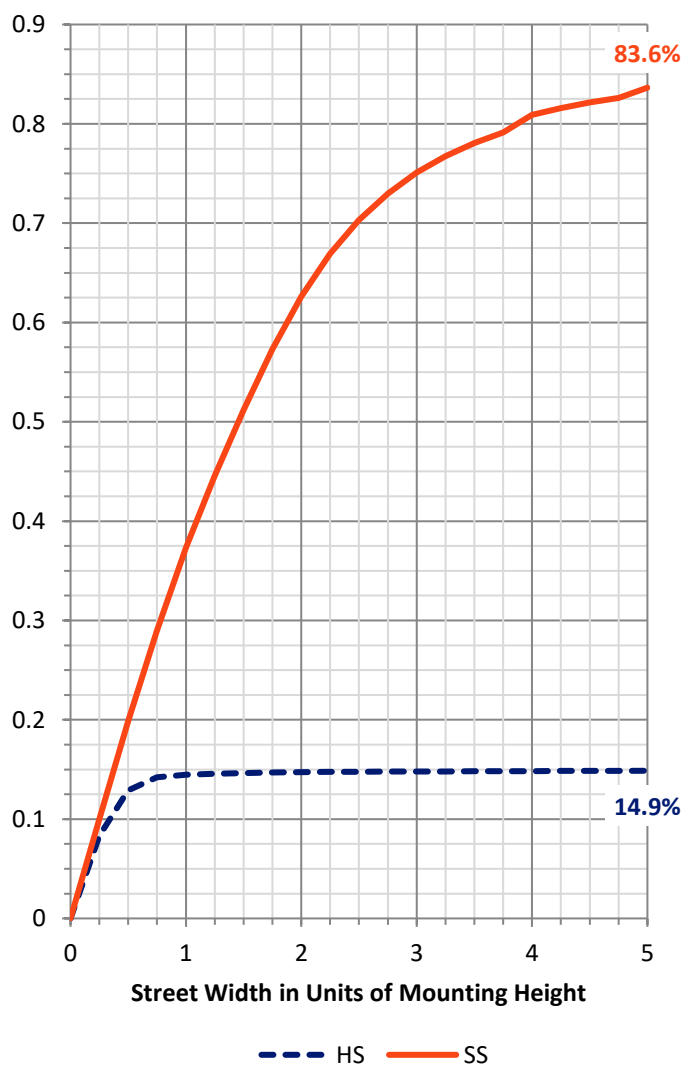
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6951.1	0.0	6951.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39276.8	0.0	39276.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	46228.0	0.0	46228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.2	0.9
10°-20°	1295.5	2.8
20°-30°	2389.1	5.2
30°-40°	3778.8	8.2
40°-50°	5923.8	12.8
50°-60°	8745.7	18.9
60°-70°	11992.4	25.9
70°-80°	9595.5	20.8
80°-90°	2078.0	4.5
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°	46228.0	100.0
0°-180°	46228.0	100.0

Coefficient of Utilization



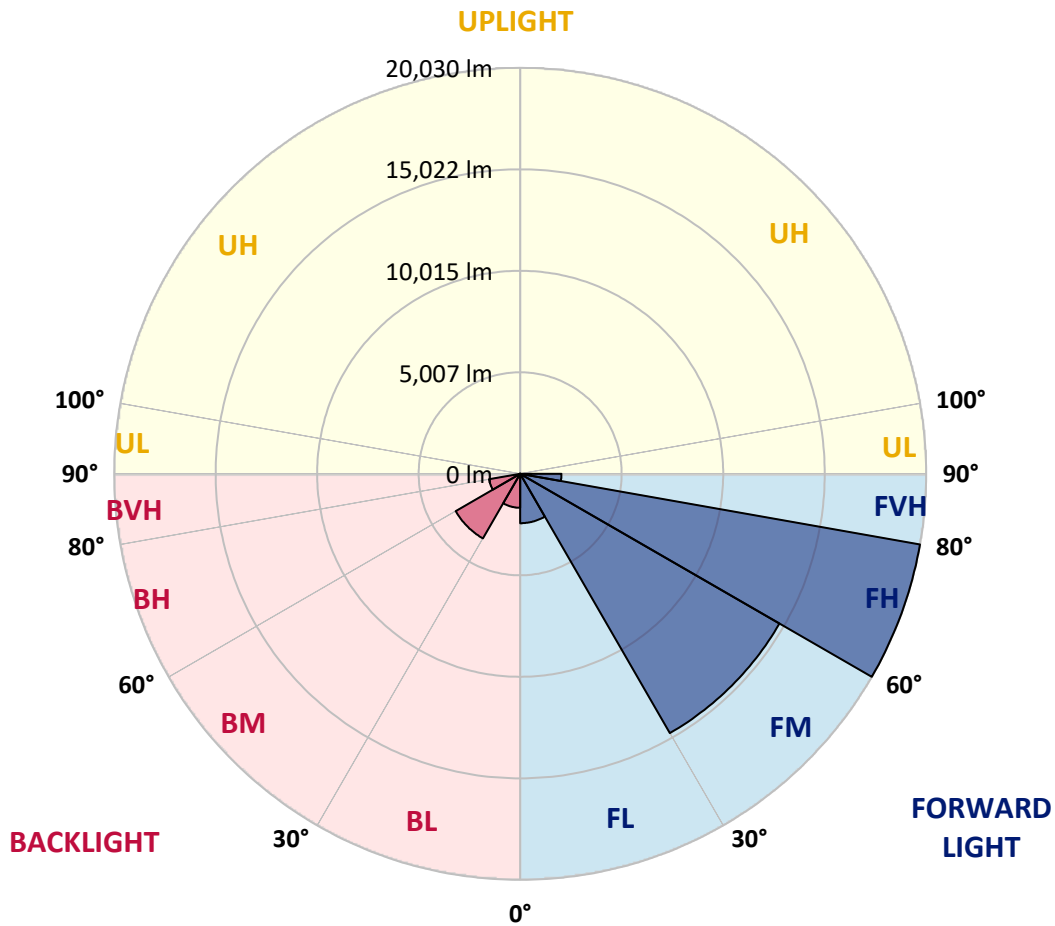
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2438.1	5.3			
FM (30°-60°)	14771.8	32.0			
FH (60°-80°)	20029.8	43.3			G5
FVH (80°-90°)	2037.1	4.4			G5
BL (0°-30°)	1675.7	3.6	B3/2500		
BM (30°-60°)	3676.4	8.0	B3/5000		
BH (60°-80°)	1558.1	3.4	B3/2500		G3/2500
BVH (80°-90°)	40.9	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0
2.5°	4591.0	4584.0	4606.0	4580.0	4573.0	4550.0	4552.0	4563.0	4572.0	4553.0	4551.0
5°	4646.0	4644.0	4659.0	4634.0	4629.0	4610.0	4603.0	4614.0	4617.0	4588.0	4575.0
7.5°	4699.0	4697.0	4718.0	4689.0	4695.0	4672.0	4663.0	4672.0	4676.0	4641.0	4627.0
10°	4734.0	4732.0	4755.0	4741.0	4766.0	4752.0	4749.0	4764.0	4776.0	4725.0	4703.0
12.5°	4783.0	4782.0	4811.0	4805.0	4843.0	4835.0	4849.0	4879.0	4898.0	4851.0	4813.0
15°	4862.0	4871.0	4898.0	4903.0	4956.0	4961.0	4983.0	5032.0	5062.0	5014.0	4979.0
17.5°	5085.0	5069.0	5107.0	5110.0	5133.0	5148.0	5165.0	5243.0	5287.0	5259.0	5234.0
20°	5515.0	5512.0	5511.0	5489.0	5477.0	5455.0	5461.0	5503.0	5570.0	5574.0	5580.0
22.5°	6055.0	6078.0	6068.0	6001.0	5922.0	5900.0	5872.0	5866.0	5909.0	5934.0	5969.0
25°	6583.0	6567.0	6589.0	6450.0	6364.0	6334.0	6320.0	6338.0	6358.0	6387.0	6443.0
27.5°	6974.0	6955.0	6937.0	6843.0	6769.0	6737.0	6748.0	6815.0	6890.0	6906.0	6996.0
30°	7311.0	7276.0	7254.0	7206.0	7155.0	7117.0	7128.0	7284.0	7479.0	7548.0	7712.0
32.5°	7901.0	7881.0	7767.0	7522.0	7503.0	7497.0	7508.0	7764.0	8067.0	8264.1	8528.1
35°	8581.1	8560.1	8451.1	8207.1	7895.0	7860.0	7908.0	8197.0	8694.1	9200.1	9620.1
37.5°	9322.1	9332.1	9236.1	8929.1	8545.1	8364.1	8310.1	8693.1	9332.1	10392.1	10807.1
40°	10325.1	10273.1	10061.1	9638.1	9327.1	9158.1	8890.1	9205.1	10119.1	11667.1	12174.1
42.5°	11104.1	11106.1	10873.1	10454.1	10037.1	9940.1	9762.1	9879.1	11066.1	13123.1	13418.1
45°	11726.1	11781.1	11640.1	11243.1	10961.1	10836.1	10695.1	10945.1	12200.1	14555.1	14584.1
47.5°	12302.1	12340.1	12202.1	11945.1	11747.1	11675.1	11737.1	12227.1	13401.1	15825.1	15569.1
50°	13232.1	13182.1	12692.1	12508.1	12453.1	12512.1	12763.1	13471.1	15038.1	16939.1	16522.1
52.5°	14835.1	14526.1	13648.1	13348.1	13381.1	13536.1	13816.1	14626.1	16633.1	17979.1	17258.1
55°	17039.1	16597.1	15496.1	14606.1	14420.1	14595.1	14913.1	15738.1	18071.1	18865.1	17855.1
57.5°	18538.1	18451.1	17970.1	16902.1	15800.1	16006.1	16230.1	16957.1	19193.1	19721.1	18364.1
60°	19962.1	20027.1	20395.1	19842.1	18719.1	18379.1	17805.1	18224.1	20256.1	20434.1	18702.1
62.5°	21086.1	21193.1	22211.1	22252.1	22900.1	22313.1	20741.1	19654.1	21209.1	20904.1	18817.1
65°	21023.1	21076.1	22580.1	23637.1	25983.2	26198.2	25145.2	21622.1	22180.1	21139.1	18701.1
67.5°	19244.1	19433.1	20804.1	23484.1	27803.2	28103.2	27562.2	24894.2	22735.1	21108.1	18241.1
70°	16944.1	17027.1	18411.1	22049.1	28440.2	28552.2	27930.2	26318.2	22522.1	20781.1	17262.1
72.5°	13910.1	14100.1	15441.1	19179.1	27548.2	27480.2	27126.2	26016.2	22113.1	19883.1	15118.1
75°	10809.1	10936.1	12168.1	15668.1	25209.2	25776.2	25514.2	24999.2	20884.1	17581.1	11256.1
77.5°	7323.0	7667.0	8856.1	12099.1	20949.1	22397.1	23207.1	22795.1	17980.1	13318.1	6513.0
80°	4155.0	4050.0	5580.0	8442.1	16071.1	17728.1	18870.1	18294.1	12813.1	7126.0	1717.0
82.5°	1324.0	1472.0	2625.0	5121.0	11346.1	12621.1	13461.1	11968.1	6476.0	1857.0	353.0
85°	602.0	648.0	1085.0	2502.0	6645.0	7314.0	7367.0	5280.0	1042.0	369.0	220.0
87.5°	252.0	252.0	514.0	1122.0	2866.0	2326.0	1470.0	1508.0	211.0	167.0	115.0
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°	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0	4517.0
2.5°	4531.0	4529.0	4518.0	4483.0	4454.0	4446.0	4446.0	4426.0	4430.0	4433.0	4414.0
5°	4551.0	4545.0	4510.0	4452.0	4395.0	4359.0	4346.0	4312.0	4302.0	4287.0	4274.0
7.5°	4589.0	4572.0	4513.0	4429.0	4341.0	4277.0	4229.0	4166.0	4133.0	4122.0	4094.0
10°	4666.0	4636.0	4551.0	4428.0	4296.0	4178.0	4084.0	3992.0	3936.0	3893.0	3874.0
12.5°	4772.0	4735.0	4627.0	4461.0	4267.0	4091.0	3938.0	3808.0	3722.0	3672.0	3659.0
15°	4932.0	4890.0	4750.0	4531.0	4262.0	4012.0	3794.0	3594.0	3472.0	3380.0	3362.0
17.5°	5186.0	5153.0	4963.0	4660.0	4312.0	3968.0	3644.0	3346.0	3129.0	3028.0	2987.0
20°	5536.0	5493.0	5270.0	4859.0	4416.0	3949.0	3499.0	3083.0	2766.0	2555.0	2501.0
22.5°	5950.0	5886.0	5595.0	5075.0	4512.0	3920.0	3361.0	2821.0	2371.0	2032.0	1994.0
25°	6434.0	6361.0	5892.0	5247.0	4551.0	3846.0	3177.0	2521.0	1885.0	1525.0	1505.0
27.5°	6971.0	6808.0	6187.0	5380.0	4521.0	3697.0	2907.0	2067.0	1360.0	1082.0	1035.0
30°	7601.0	7324.0	6466.0	5461.0	4432.0	3463.0	2521.0	1464.0	902.0	698.0	692.0
32.5°	8279.1	7895.0	6745.0	5477.0	4265.0	3140.0	1902.0	926.0	514.0	402.0	407.0
35°	9244.1	8653.1	7049.0	5437.0	3997.0	2664.0	1254.0	528.0	285.0	253.0	240.0
37.5°	10319.1	9587.1	7381.0	5289.0	3598.0	2007.0	749.0	257.0	210.0	201.0	198.0
40°	11579.1	10619.1	7767.0	5067.0	3084.0	1378.0	352.0	202.0	192.0	187.0	187.0
42.5°	12748.1	11678.1	8262.1	4771.0	2488.0	803.0	234.0	194.0	173.0	171.0	172.0
45°	13805.1	12598.1	8712.1	4425.0	1871.0	405.0	226.0	173.0	154.0	154.0	154.0
47.5°	14744.1	13360.1	9037.1	3989.0	1282.0	268.0	226.0	158.0	140.0	139.0	140.0
50°	15530.1	14001.1	9246.1	3512.0	755.0	251.0	207.0	150.0	127.0	130.0	130.0
52.5°	16137.1	14460.1	9273.1	2922.0	414.0	245.0	197.0	139.0	116.0	133.0	137.0
55°	16624.1	14761.1	9117.1	2244.0	303.0	230.0	193.0	129.0	115.0	151.0	158.0
57.5°	16931.1	14896.1	8743.1	1523.0	281.0	211.0	180.0	118.0	109.0	134.0	139.0
60°	17087.1	14849.1	8180.0	954.0	275.0	206.0	166.0	113.0	97.0	97.0	98.0
62.5°	17053.1	14589.1	7408.0	572.0	257.0	198.0	156.0	109.0	81.0	66.0	66.0
65°	16667.1	14010.1	6161.0	410.0	244.0	197.0	149.0	103.0	69.0	51.0	48.0
67.5°	15880.1	12886.1	4304.0	358.0	250.0	197.0	149.0	99.0	65.0	41.0	37.0
70°	14391.1	10666.1	2011.0	328.0	259.0	205.0	152.0	98.0	58.0	32.0	29.0
72.5°	11628.1	7387.0	490.0	266.0	261.0	205.0	164.0	97.0	52.0	25.0	22.0
75°	7477.0	3485.0	349.0	204.0	230.0	197.0	166.0	116.0	55.0	16.0	14.0
77.5°	2989.0	670.0	309.0	143.0	216.0	219.0	180.0	123.0	68.0	8.0	4.0
80°	515.0	312.0	289.0	96.0	178.0	224.0	142.0	102.0	65.0	3.0	0.0
82.5°	291.0	265.0	245.0	59.0	136.0	151.0	87.0	73.0	64.0	3.0	0.0
85°	219.0	220.0	107.0	45.0	65.0	94.0	34.0	21.0	58.0	2.0	0.0
87.5°	127.0	69.0	35.0	27.0	27.0	37.0	13.0	9.0	8.0	2.0	1.0
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)