

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: P622602

Luminaire Tested: **PRV-M-PA6A-740-U-T2R-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6A-740-U-T2R-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE  
SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

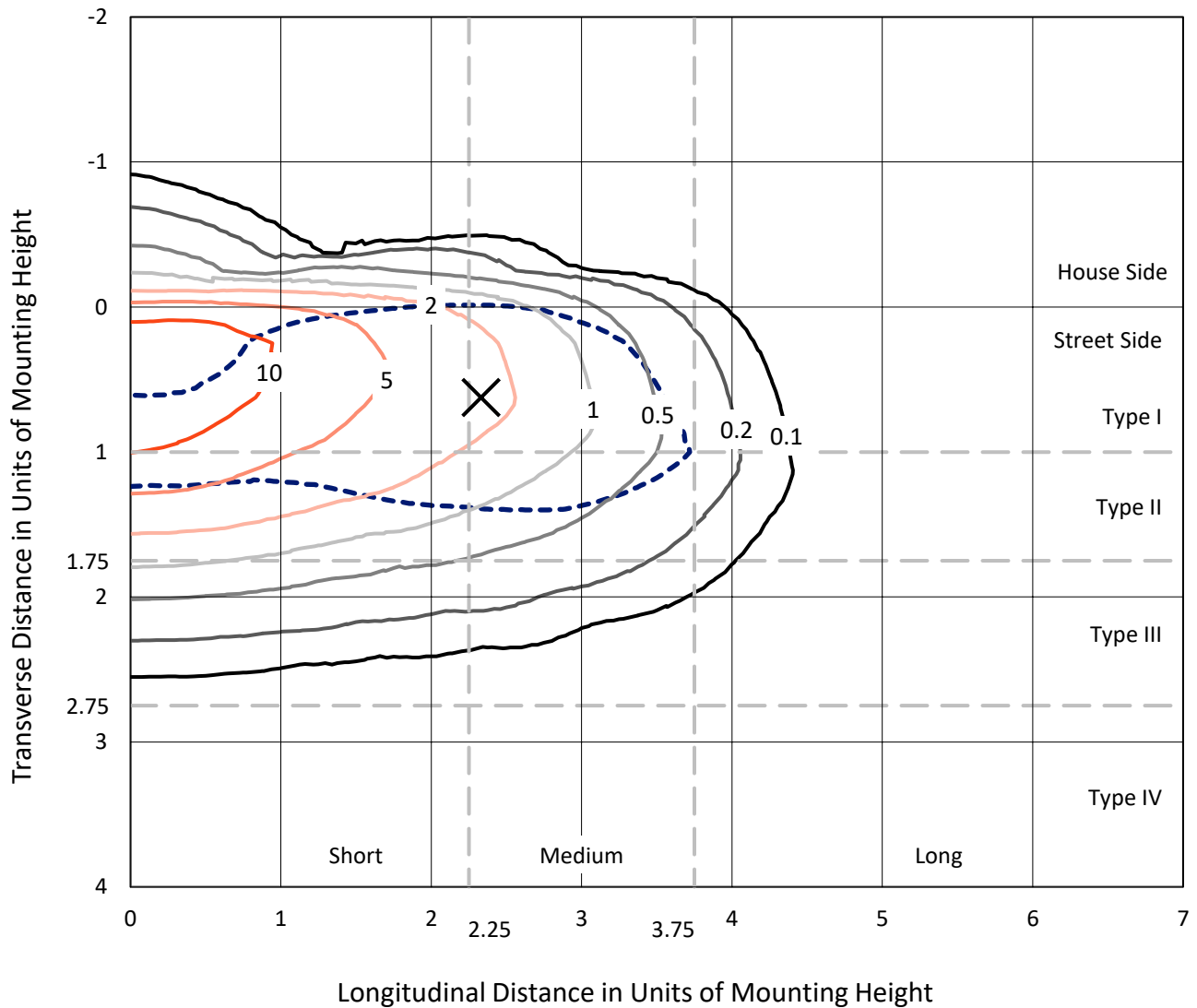
Lumens per Lamp: N/A  
Luminaire Lumens: 32874 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 273.8  
Input Voltage (V): NR  
Input Current (Ain): 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

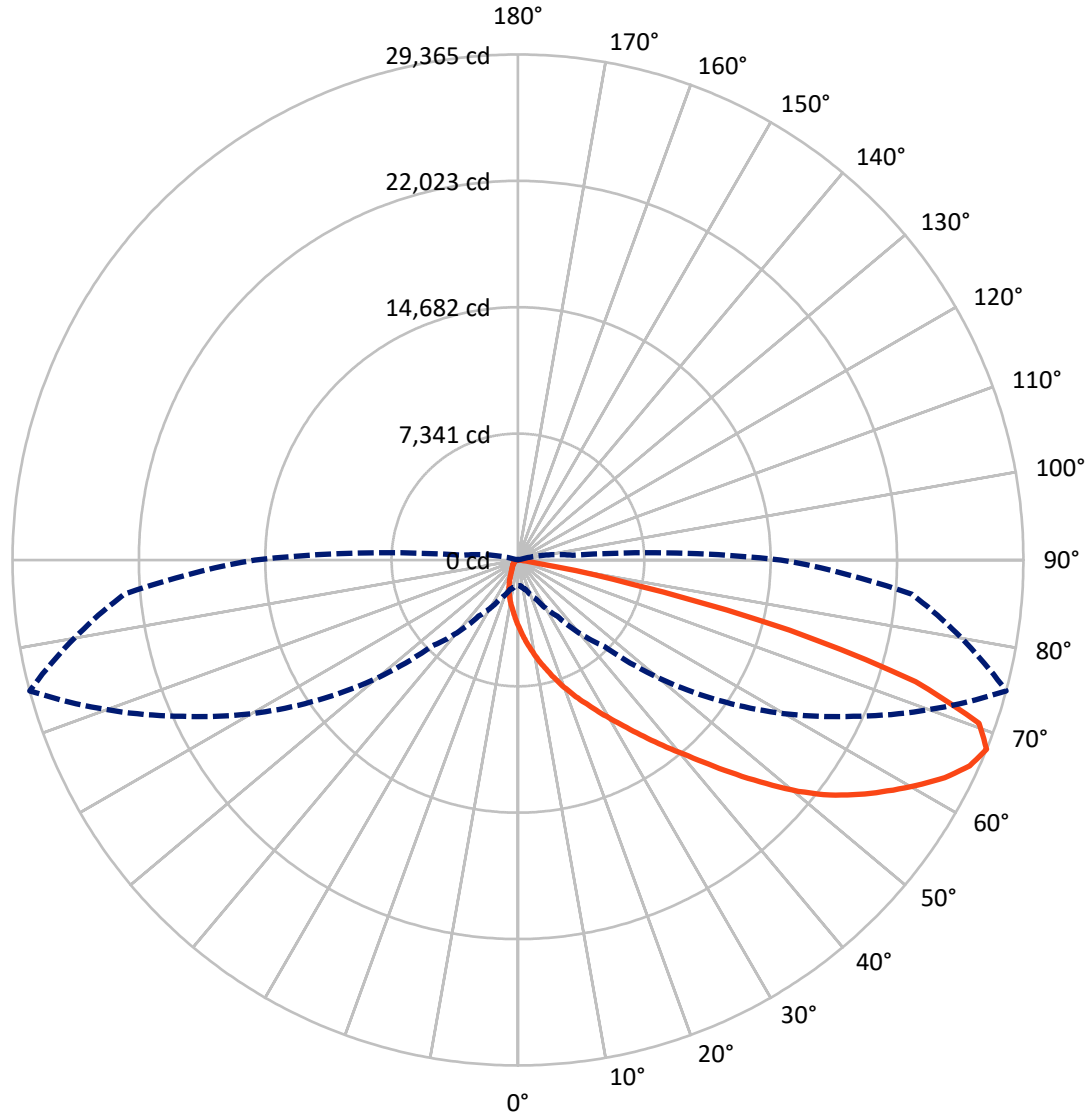
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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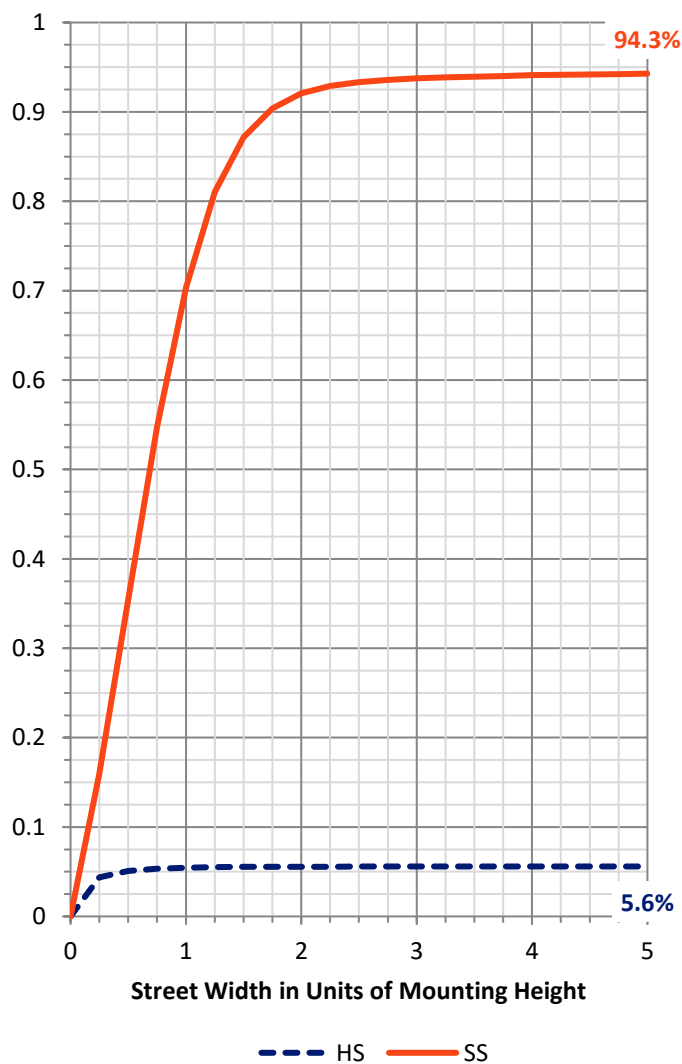
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1848.6	0.0	1848.6
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	31025.4	0.0	31025.4
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	32874.0	0.0	32874.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.0	1.1
10°-20°	1268.5	3.9
20°-30°	2522.9	7.7
30°-40°	4574.0	13.9
40°-50°	6848.0	20.8
50°-60°	7804.4	23.7
60°-70°	6629.6	20.2
70°-80°	2735.3	8.3
80°-90°	115.4	0.4
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°	32874.0	100.0
0°-180°	32874.0	100.0

**Coefficient of Utilization**



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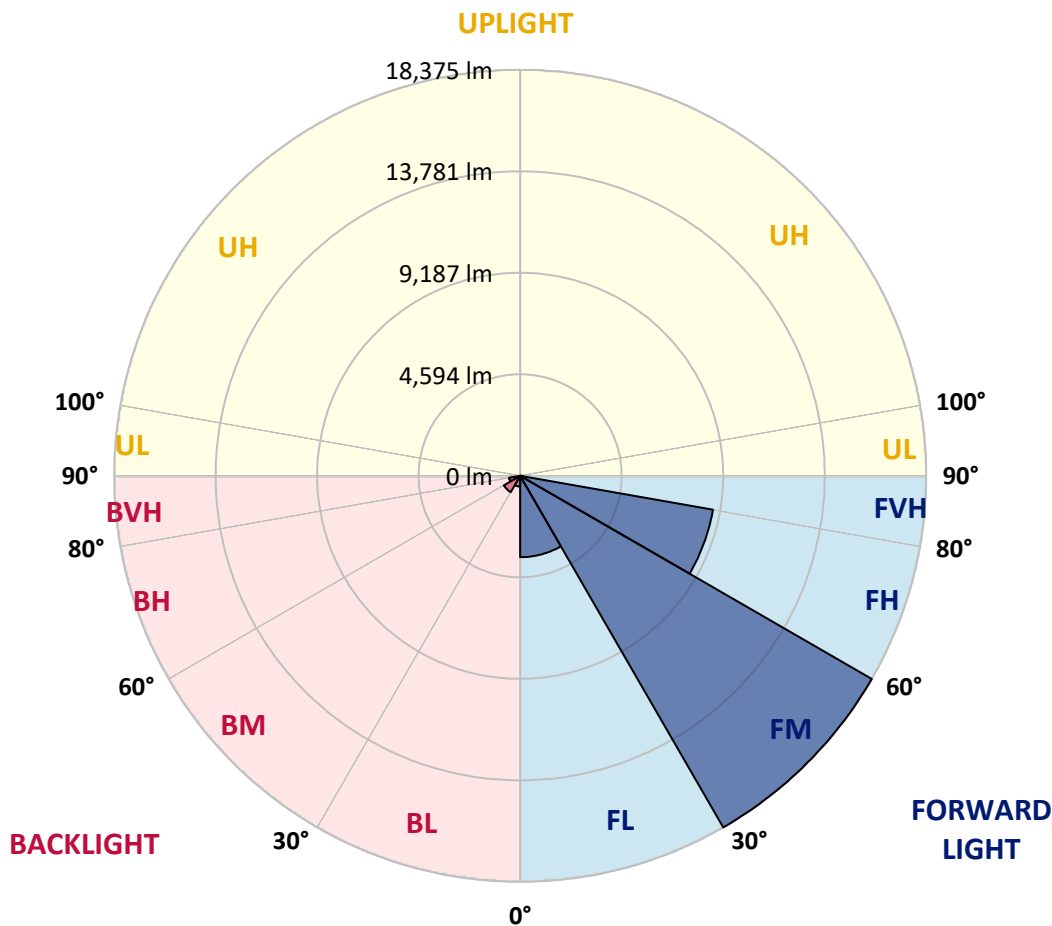
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3682.5	11.2			
FM (30°-60°)	18374.5	55.9			
FH (60°-80°)	8858.6	26.9			G4/12000
FVH (80°-90°)	109.8	0.3			G2/225
BL (0°-30°)	484.9	1.5	B1/500		
BM (30°-60°)	851.8	2.6	B1/1000		
BH (60°-80°)	506.3	1.5	B2/1000		G2/1000
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9
2.5°	5313.9	5249.9	5297.9	5241.9	5107.9	4940.9	4753.9	4517.9	4258.9	3999.9	3868.9
5°	6414.9	6283.9	6292.9	6221.9	6071.9	5847.9	5572.9	5172.9	4710.9	4192.9	3924.9
7.5°	6995.9	6883.9	6893.9	6842.9	6736.9	6549.9	6277.9	5803.9	5188.9	4432.9	4024.9
10°	7450.9	7380.9	7402.9	7372.9	7295.9	7145.9	6905.9	6427.9	5694.9	4720.9	4163.9
12.5°	7916.9	7841.9	7883.9	7871.9	7824.9	7719.9	7477.9	7042.9	6219.9	5037.9	4320.9
15°	8193.9	8100.9	8187.9	8275.9	8332.9	8295.9	8112.9	7658.9	6785.9	5373.9	4487.9
17.5°	8322.9	8245.9	8366.9	8517.9	8712.9	8817.9	8697.9	8305.9	7381.9	5744.9	4685.9
20°	8619.9	8549.9	8659.9	8818.9	9029.9	9246.9	9278.9	8972.9	7993.9	6144.9	4899.9
22.5°	9310.9	9230.9	9278.9	9306.9	9449.9	9655.9	9795.9	9649.9	8624.9	6567.9	5125.9
25°	10506.9	10391.9	10333.9	10135.9	10121.9	10181.9	10270.9	10331.9	9261.9	7005.9	5348.9
27.5°	12138.8	11987.8	11784.8	11291.8	11043.8	10901.8	10801.8	11014.8	9980.9	7428.9	5582.9
30°	13837.8	13647.8	13396.8	12800.8	12218.8	11842.8	11472.8	11714.8	10741.8	7932.9	5833.9
32.5°	15301.8	15081.8	14751.8	14145.8	13535.8	12954.8	12327.8	12421.8	11596.8	8492.9	6122.9
35°	16463.8	16197.8	15927.8	15326.8	14779.8	14162.8	13353.8	13168.8	12594.8	9128.9	6482.9
37.5°	17288.8	17005.8	16705.8	16183.8	15795.8	15380.8	14570.8	14049.8	13664.8	9872.9	6916.9
40°	17781.8	17482.8	17236.8	16860.8	16580.8	16462.8	15918.8	15083.8	14817.8	10740.8	7459.9
42.5°	17972.7	17682.8	17508.8	17235.8	17121.8	17296.8	17233.8	16380.8	16203.8	11781.8	8110.9
45°	17843.8	17577.8	17473.8	17347.8	17405.8	17884.8	18477.7	17802.8	17761.8	12950.8	8864.9
47.5°	17203.8	16993.8	17064.8	17164.8	17404.8	18217.7	19487.7	19325.7	19401.7	14288.8	9729.9
50°	15801.8	15683.8	16007.8	16519.8	17083.8	18298.7	20268.7	20771.7	21125.7	15702.8	10679.9
52.5°	13009.8	13086.8	14136.8	15235.8	16328.8	18083.7	20698.7	22031.7	22697.7	16987.8	11557.8
55°	9985.9	9946.9	11282.8	13307.8	15026.8	17451.8	20806.7	22792.7	24051.7	18214.7	12371.8
57.5°	7724.9	7692.9	8484.9	10729.9	13032.8	16290.8	20652.7	23262.7	25321.6	19386.7	13195.8
60°	5940.9	5921.9	6519.9	8006.9	10545.9	14610.8	20081.7	23488.7	26605.6	20661.7	14034.8
62.5°	4262.9	4287.9	4799.9	5949.9	8185.9	12253.8	18919.7	23347.7	27840.6	21792.7	14809.8
65°	2646.0	2674.0	3111.0	4144.9	5894.9	9555.9	16961.8	22738.7	28836.6	22629.7	15359.8
67.5°	1490.0	1504.0	1784.0	2513.0	3988.9	7077.9	14201.8	21484.7	29364.6	22981.7	15280.8
70°	1004.0	1009.0	1092.0	1385.0	2296.0	4758.9	10746.8	19168.7	28416.6	21811.7	13810.8
72.5°	801.0	804.0	862.0	932.0	1316.0	2949.0	7211.9	15519.8	24156.7	17288.8	10145.9
75°	592.0	605.0	714.0	754.0	892.0	1611.0	3878.9	10170.9	16306.8	9709.9	5516.9
77.5°	498.0	501.0	536.0	622.0	681.0	914.0	1304.0	4494.9	6743.9	2869.0	1422.0
80°	337.0	337.0	399.0	457.0	519.0	602.0	515.0	1224.0	1249.0	463.0	264.0
82.5°	236.0	244.0	286.0	386.0	422.0	323.0	264.0	339.0	288.0	153.0	83.0
85°	65.0	80.0	196.0	287.0	225.0	98.0	159.0	134.0	99.0	57.0	35.0
87.5°	10.0	12.0	94.0	86.0	61.0	18.0	55.0	23.0	31.0	22.0	17.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9
2.5°	3727.9	3468.0	3190.0	2947.0	2740.0	2551.0	2459.0	2332.0	2330.0	2241.0
5°	3643.9	3097.0	2611.0	2200.0	1872.0	1637.0	1492.0	1370.0	1313.0	1290.0
7.5°	3593.9	2792.0	2127.0	1626.0	1282.0	1084.0	971.0	925.0	900.0	888.0
10°	3581.9	2526.0	1713.0	1204.0	954.0	860.0	822.0	799.0	790.0	781.0
12.5°	3575.0	2264.0	1384.0	953.0	831.0	777.0	743.0	718.0	707.0	699.0
15°	3571.0	2001.0	1113.0	838.0	759.0	706.0	665.0	641.0	626.0	618.0
17.5°	3577.0	1765.0	927.0	774.0	698.0	633.0	591.0	560.0	548.0	537.0
20°	3587.9	1525.0	829.0	716.0	632.0	561.0	517.0	484.0	467.0	461.0
22.5°	3592.9	1289.0	762.0	653.0	563.0	490.0	444.0	416.0	401.0	395.0
25°	3579.0	1083.0	698.0	586.0	495.0	425.0	380.0	357.0	349.0	343.0
27.5°	3546.0	908.0	634.0	518.0	433.0	370.0	333.0	312.0	306.0	305.0
30°	3491.0	772.0	570.0	456.0	378.0	323.0	291.0	274.0	271.0	269.0
32.5°	3440.0	680.0	511.0	403.0	332.0	282.0	254.0	243.0	241.0	241.0
35°	3387.0	611.0	453.0	355.0	291.0	248.0	225.0	215.0	217.0	216.0
37.5°	3347.0	551.0	408.0	316.0	255.0	216.0	196.0	189.0	193.0	193.0
40°	3323.0	503.0	362.0	280.0	223.0	188.0	171.0	166.0	173.0	174.0
42.5°	3322.0	457.0	325.0	247.0	194.0	164.0	149.0	144.0	152.0	154.0
45°	3341.0	421.0	289.0	216.0	170.0	142.0	126.0	121.0	130.0	131.0
47.5°	3419.0	391.0	257.0	190.0	149.0	123.0	104.0	99.0	109.0	110.0
50°	3548.0	351.0	222.0	166.0	130.0	104.0	84.0	80.0	91.0	92.0
52.5°	3669.9	313.0	190.0	143.0	113.0	86.0	67.0	65.0	76.0	78.0
55°	3723.9	275.0	163.0	123.0	98.0	71.0	53.0	54.0	65.0	67.0
57.5°	3752.9	243.0	141.0	106.0	85.0	58.0	45.0	46.0	56.0	58.0
60°	3775.9	211.0	124.0	93.0	74.0	49.0	39.0	38.0	46.0	48.0
62.5°	3763.9	181.0	109.0	81.0	63.0	43.0	33.0	30.0	35.0	36.0
65°	3611.9	157.0	94.0	69.0	54.0	36.0	26.0	18.0	21.0	22.0
67.5°	3186.0	138.0	80.0	59.0	44.0	31.0	19.0	12.0	14.0	15.0
70°	2378.0	118.0	65.0	49.0	36.0	25.0	14.0	8.0	10.0	11.0
72.5°	1285.0	97.0	52.0	38.0	27.0	19.0	9.0	5.0	6.0	6.0
75°	531.0	70.0	39.0	26.0	19.0	14.0	7.0	2.0	2.0	2.0
77.5°	197.0	43.0	25.0	20.0	15.0	11.0	5.0	1.0	0.0	0.0
80°	90.0	23.0	19.0	16.0	12.0	9.0	4.0	0.0	0.0	0.0
82.5°	42.0	16.0	15.0	13.0	10.0	7.0	3.0	0.0	0.0	0.0
85°	20.0	13.0	14.0	12.0	10.0	6.0	2.0	0.0	0.0	0.0
87.5°	12.0	14.0	14.0	12.0	10.0	6.0	1.0	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

(END OF REPORT)