

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: P622683

Luminaire Tested: **PRV-M-PA6B-740-U-T2R-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622683  
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-PA6B-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**

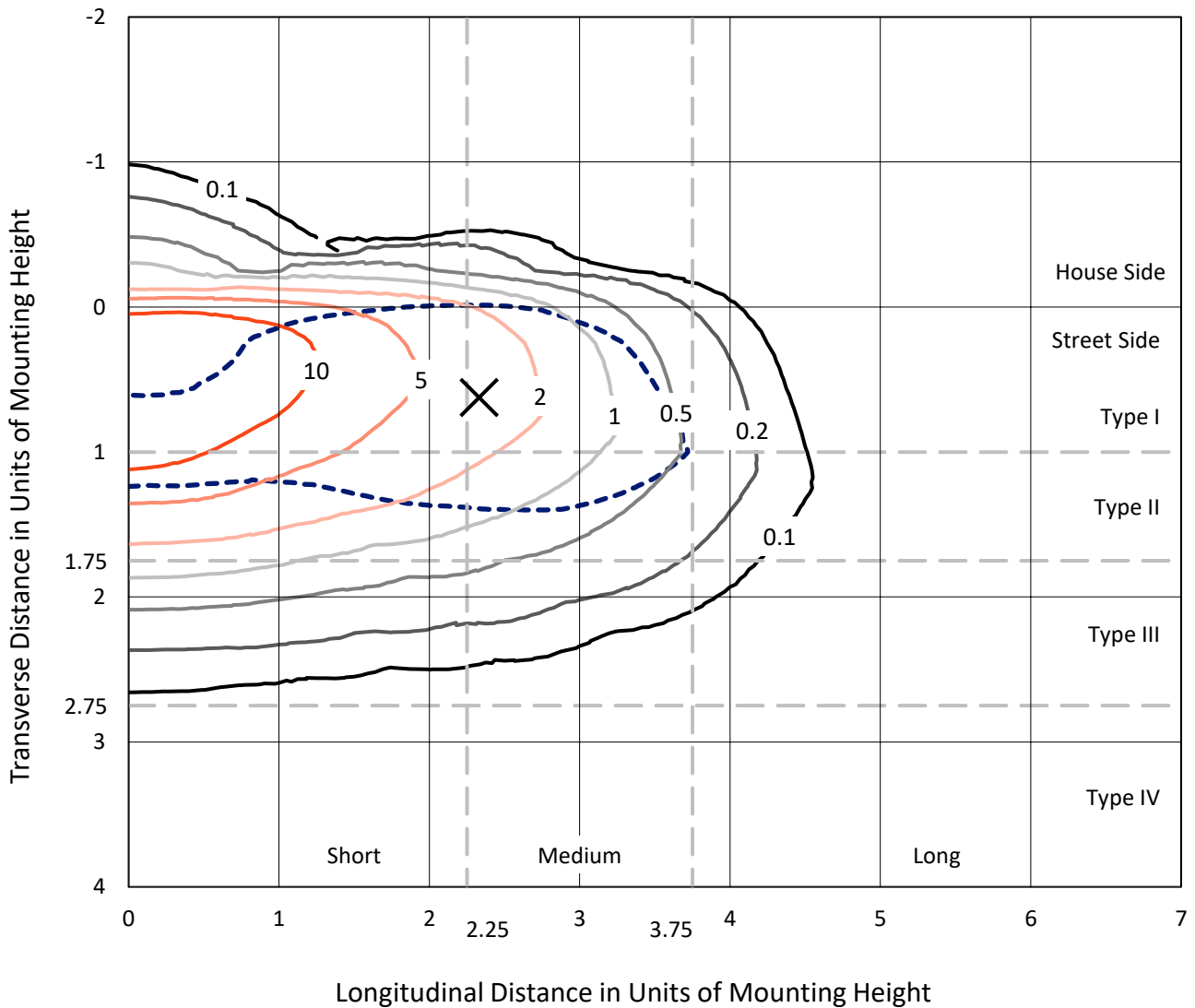
Lumens per Lamp: N/A  
Luminaire Lumens: 41553 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 365.8  
Input Voltage (V): NR  
Input Current (Ain): 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

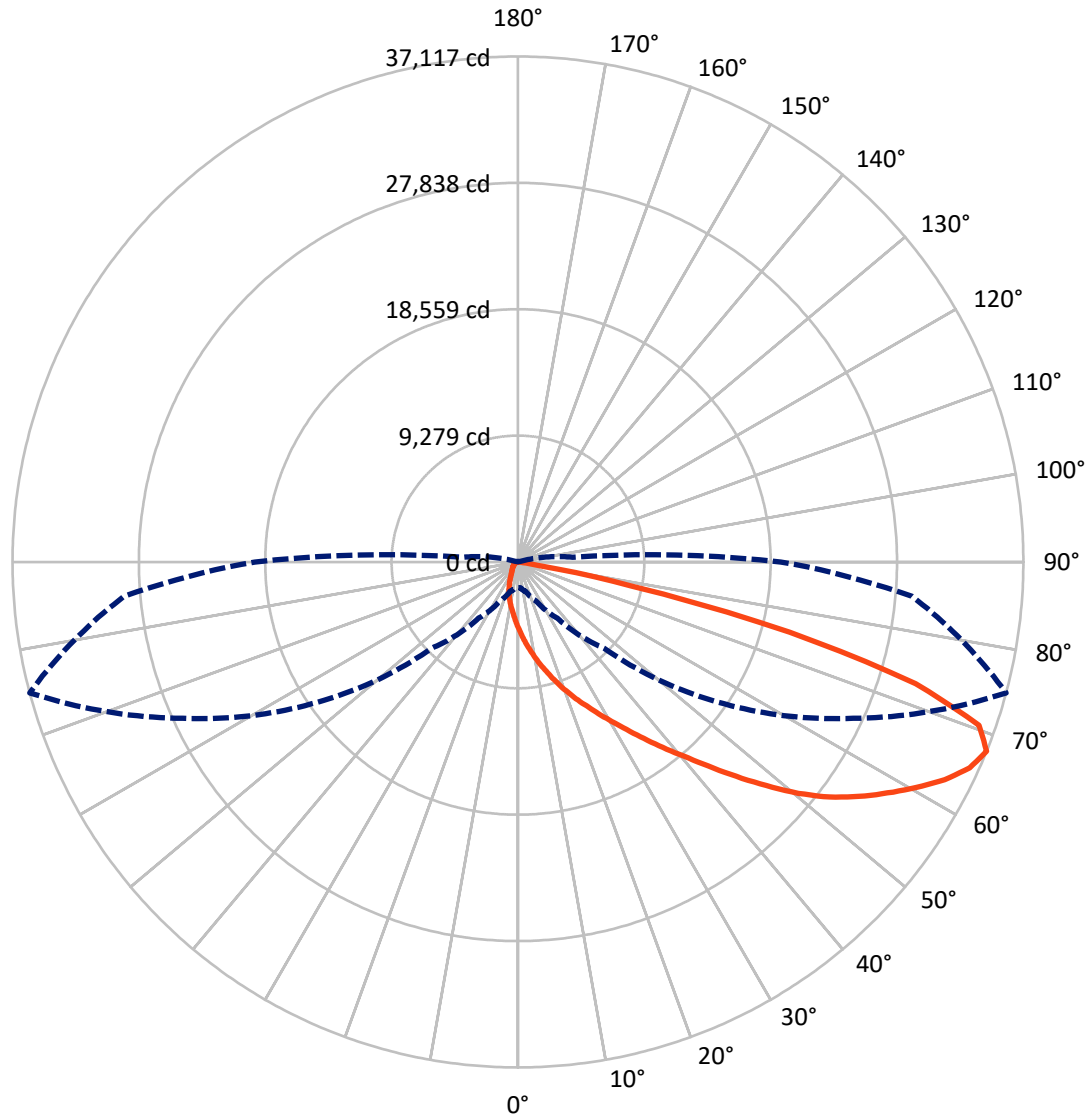
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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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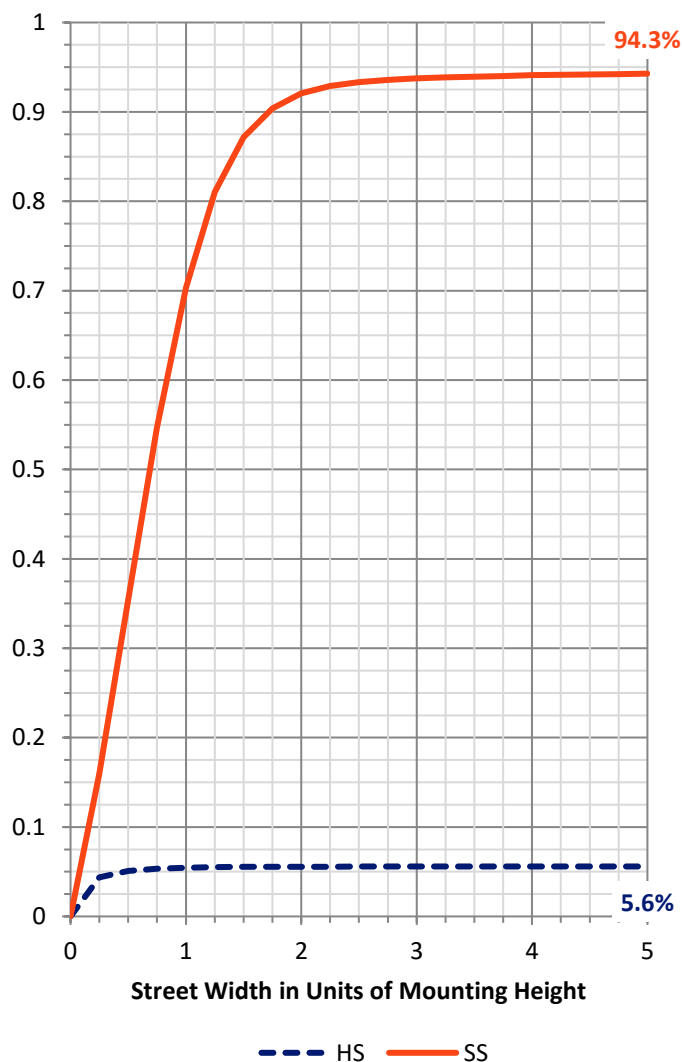
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2336.7	0.0	2336.7
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	39216.3	0.0	39216.3
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	41553.0	0.0	41553.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.3	1.1
10°-20°	1603.4	3.9
20°-30°	3189.0	7.7
30°-40°	5781.5	13.9
40°-50°	8655.9	20.8
50°-60°	9864.8	23.7
60°-70°	8379.9	20.2
70°-80°	3457.4	8.3
80°-90°	145.9	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°	41553.0	100.0
0°-180°	41553.0	100.0

**Coefficient of Utilization**

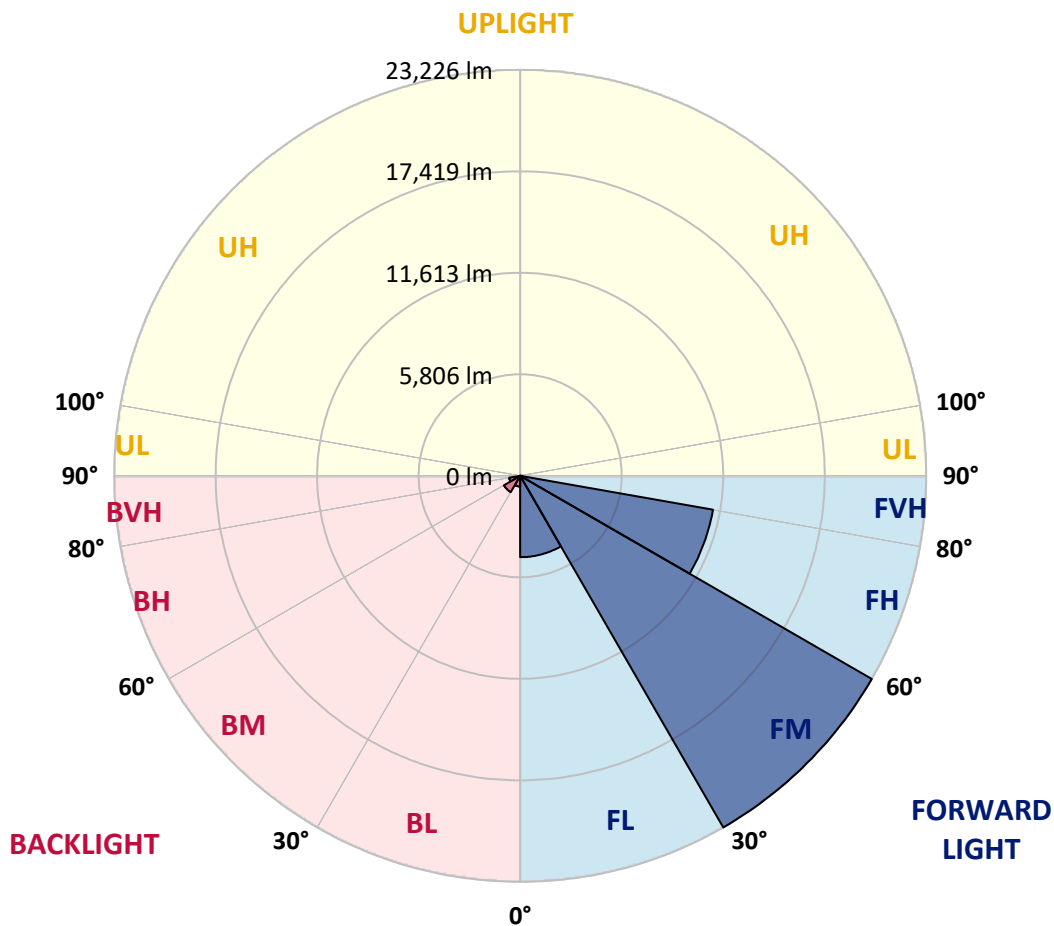


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4654.7	11.2			
FM (30°-60°)	23225.6	55.9			
FH (60°-80°)	11197.3	26.9			G4/12000
FVH (80°-90°)	138.7	0.3			G2/225
BL (0°-30°)	612.9	1.5	B2/1000		
BM (30°-60°)	1076.6	2.6	B2/2500		
BH (60°-80°)	640.0	1.5	B2/1000		G2/1000
BVH (80°-90°)	7.2	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°	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3
2.5°	6716.8	6635.9	6696.6	6625.8	6456.5	6245.4	6009.0	5710.7	5383.3	5056.0	4890.4
5°	8108.5	7942.9	7954.3	7864.5	7674.9	7391.8	7044.2	6538.6	5954.7	5299.9	4961.2
7.5°	8842.9	8701.3	8713.9	8649.5	8515.5	8279.1	7935.3	7336.2	6558.8	5603.3	5087.6
10°	9418.0	9329.5	9357.3	9319.4	9222.1	9032.5	8729.1	8124.9	7198.4	5967.3	5263.3
12.5°	10007.0	9912.2	9965.3	9950.1	9890.7	9758.0	9452.1	8902.3	7862.0	6368.0	5461.7
15°	10357.1	10239.6	10349.6	10460.8	10532.8	10486.1	10254.8	9680.9	8577.4	6792.7	5672.8
17.5°	10520.2	10422.9	10575.8	10766.7	11013.1	11145.9	10994.2	10498.7	9330.8	7261.6	5923.1
20°	10895.6	10807.1	10946.2	11147.1	11413.8	11688.1	11728.6	11341.8	10104.3	7767.2	6193.6
22.5°	11769.0	11667.9	11728.6	11764.0	11944.7	12205.1	12382.0	12197.5	10901.9	8301.9	6479.2
25°	13280.7	13135.4	13062.1	12811.8	12794.1	12870.0	12982.4	13059.5	11707.1	8855.5	6761.1
27.5°	15343.6	15152.7	14896.1	14273.0	13959.5	13780.0	13653.6	13922.9	12615.9	9390.2	7056.9
30°	17491.1	17250.9	16933.7	16180.3	15444.7	14969.4	14501.8	14807.6	13577.8	10027.2	7374.1
32.5°	19341.6	19063.5	18646.4	17880.4	17109.4	16375.0	15582.5	15701.3	14658.5	10735.1	7739.4
35°	20810.3	20474.1	20132.8	19373.2	18681.8	17901.9	16879.3	16645.5	15920.0	11539.0	8194.4
37.5°	21853.1	21495.4	21116.2	20456.4	19966.0	19441.4	18417.6	17759.1	17272.4	12479.4	8743.0
40°	22476.3	22098.3	21787.4	21312.1	20958.2	20809.1	20121.5	19066.0	18729.8	13576.5	9429.4
42.5°	22717.7	22351.1	22131.2	21786.1	21642.0	21863.2	21783.6	20705.4	20481.7	14892.3	10252.2
45°	22554.6	22218.4	22087.0	21927.7	22001.0	22606.5	23356.0	22502.8	22451.0	16369.9	11205.3
47.5°	21745.7	21480.3	21570.0	21696.4	21999.8	23027.4	24632.6	24427.9	24523.9	18061.2	12298.6
50°	19973.6	19824.4	20234.0	20881.1	21594.0	23129.8	25619.8	26255.6	26703.1	19848.4	13499.4
52.5°	16444.5	16541.8	17869.0	19258.2	20639.7	22858.0	26163.3	27848.2	28690.1	21472.7	14609.2
55°	12622.2	12572.9	14261.6	16821.2	18994.0	22059.2	26299.8	28810.1	30401.5	23023.6	15638.1
57.5°	9764.3	9723.9	10725.0	13562.6	16473.6	20591.7	26105.2	29404.2	32006.8	24505.0	16679.6
60°	7509.4	7485.4	8241.2	10120.8	13330.0	18468.2	25383.5	29689.9	33629.7	26116.6	17740.1
62.5°	5388.4	5420.0	6067.2	7520.7	10347.0	15488.9	23914.7	29511.6	35190.8	27546.1	18719.7
65°	3344.5	3379.9	3932.3	5239.2	7451.2	12078.7	21439.8	28741.9	36449.7	28604.1	19414.9
67.5°	1883.3	1901.0	2255.0	3176.4	5042.1	8946.5	17951.2	27156.8	37117.1	29049.0	19315.0
70°	1269.0	1275.4	1380.3	1750.6	2902.1	6015.3	13584.1	24229.4	35918.8	27570.2	17457.0
72.5°	1012.5	1016.2	1089.6	1178.0	1663.4	3727.5	9115.9	19617.1	30534.2	21853.1	12824.4
75°	748.3	764.7	902.5	953.0	1127.5	2036.3	4903.0	12856.0	20611.9	12273.3	6973.4
77.5°	629.5	633.3	677.5	786.2	860.8	1155.3	1648.2	5681.6	8524.4	3626.4	1797.4
80°	426.0	426.0	504.3	577.6	656.0	760.9	651.0	1547.1	1578.7	585.2	333.7
82.5°	298.3	308.4	361.5	487.9	533.4	408.3	333.7	428.5	364.0	193.4	104.9
85°	82.2	101.1	247.7	362.8	284.4	123.9	201.0	169.4	125.1	72.0	44.2
87.5°	12.6	15.2	118.8	108.7	77.1	22.8	69.5	29.1	39.2	27.8	21.5
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°	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3	4837.3
2.5°	4712.2	4383.5	4032.1	3725.0	3463.3	3224.4	3108.2	2947.6	2945.1	2832.6
5°	4606.0	3914.6	3300.3	2780.8	2366.2	2069.2	1885.9	1731.7	1659.6	1630.5
7.5°	4542.8	3529.1	2688.5	2055.2	1620.4	1370.2	1227.3	1169.2	1137.6	1122.4
10°	4527.6	3192.8	2165.2	1521.8	1205.8	1087.0	1039.0	1009.9	998.6	987.2
12.5°	4518.8	2861.7	1749.4	1204.6	1050.4	982.1	939.1	907.5	893.6	883.5
15°	4513.7	2529.2	1406.8	1059.2	959.4	892.4	840.6	810.2	791.3	781.1
17.5°	4521.3	2230.9	1171.7	978.3	882.3	800.1	747.0	707.8	692.7	678.8
20°	4535.2	1927.6	1047.8	905.0	798.8	709.1	653.5	611.8	590.3	582.7
22.5°	4541.5	1629.3	963.2	825.4	711.6	619.4	561.2	525.8	506.9	499.3
25°	4523.8	1368.9	882.3	740.7	625.7	537.2	480.3	451.2	441.1	433.5
27.5°	4482.1	1147.7	801.4	654.7	547.3	467.7	420.9	394.4	386.8	385.5
30°	4412.6	975.8	720.5	576.4	477.8	408.3	367.8	346.3	342.5	340.0
32.5°	4348.1	859.5	645.9	509.4	419.6	356.4	321.1	307.1	304.6	304.6
35°	4281.1	772.3	572.6	448.7	367.8	313.5	284.4	271.8	274.3	273.0
37.5°	4230.6	696.5	515.7	399.4	322.3	273.0	247.7	238.9	244.0	244.0
40°	4200.2	635.8	457.6	353.9	281.9	237.6	216.1	209.8	218.7	219.9
42.5°	4199.0	577.6	410.8	312.2	245.2	207.3	188.3	182.0	192.1	194.7
45°	4223.0	532.1	365.3	273.0	214.9	179.5	159.3	152.9	164.3	165.6
47.5°	4321.6	494.2	324.8	240.2	188.3	155.5	131.5	125.1	137.8	139.0
50°	4484.6	443.7	280.6	209.8	164.3	131.5	106.2	101.1	115.0	116.3
52.5°	4638.8	395.6	240.2	180.8	142.8	108.7	84.7	82.2	96.1	98.6
55°	4707.1	347.6	206.0	155.5	123.9	89.7	67.0	68.3	82.2	84.7
57.5°	4743.8	307.1	178.2	134.0	107.4	73.3	56.9	58.1	70.8	73.3
60°	4772.8	266.7	156.7	117.6	93.5	61.9	49.3	48.0	58.1	60.7
62.5°	4757.7	228.8	137.8	102.4	79.6	54.4	41.7	37.9	44.2	45.5
65°	4565.5	198.4	118.8	87.2	68.3	45.5	32.9	22.8	26.5	27.8
67.5°	4027.1	174.4	101.1	74.6	55.6	39.2	24.0	15.2	17.7	19.0
70°	3005.8	149.2	82.2	61.9	45.5	31.6	17.7	10.1	12.6	13.9
72.5°	1624.2	122.6	65.7	48.0	34.1	24.0	11.4	6.3	7.6	7.6
75°	671.2	88.5	49.3	32.9	24.0	17.7	8.8	2.5	2.5	2.5
77.5°	249.0	54.4	31.6	25.3	19.0	13.9	6.3	1.3	0.0	0.0
80°	113.8	29.1	24.0	20.2	15.2	11.4	5.1	0.0	0.0	0.0
82.5°	53.1	20.2	19.0	16.4	12.6	8.8	3.8	0.0	0.0	0.0
85°	25.3	16.4	17.7	15.2	12.6	7.6	2.5	0.0	0.0	0.0
87.5°	15.2	17.7	17.7	15.2	12.6	7.6	1.3	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)