

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: P622766

Luminaire Tested: **PRV-M-PA6C-740-U-T2U-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6C-740-U-T2U-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43082 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

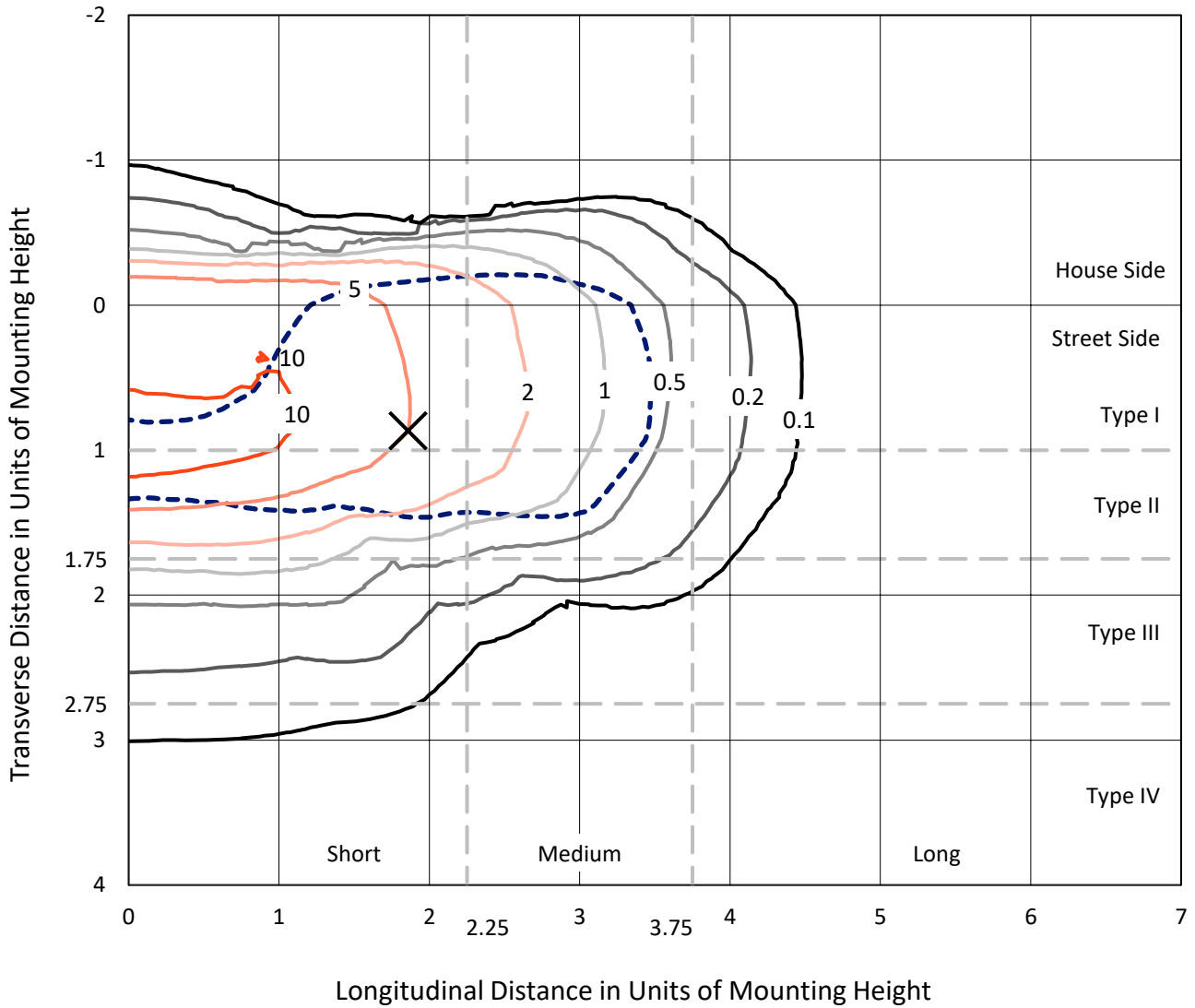
Input Watts (W): 457.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622766
 CATALOG NUMBER: PRV-M-PA6C-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

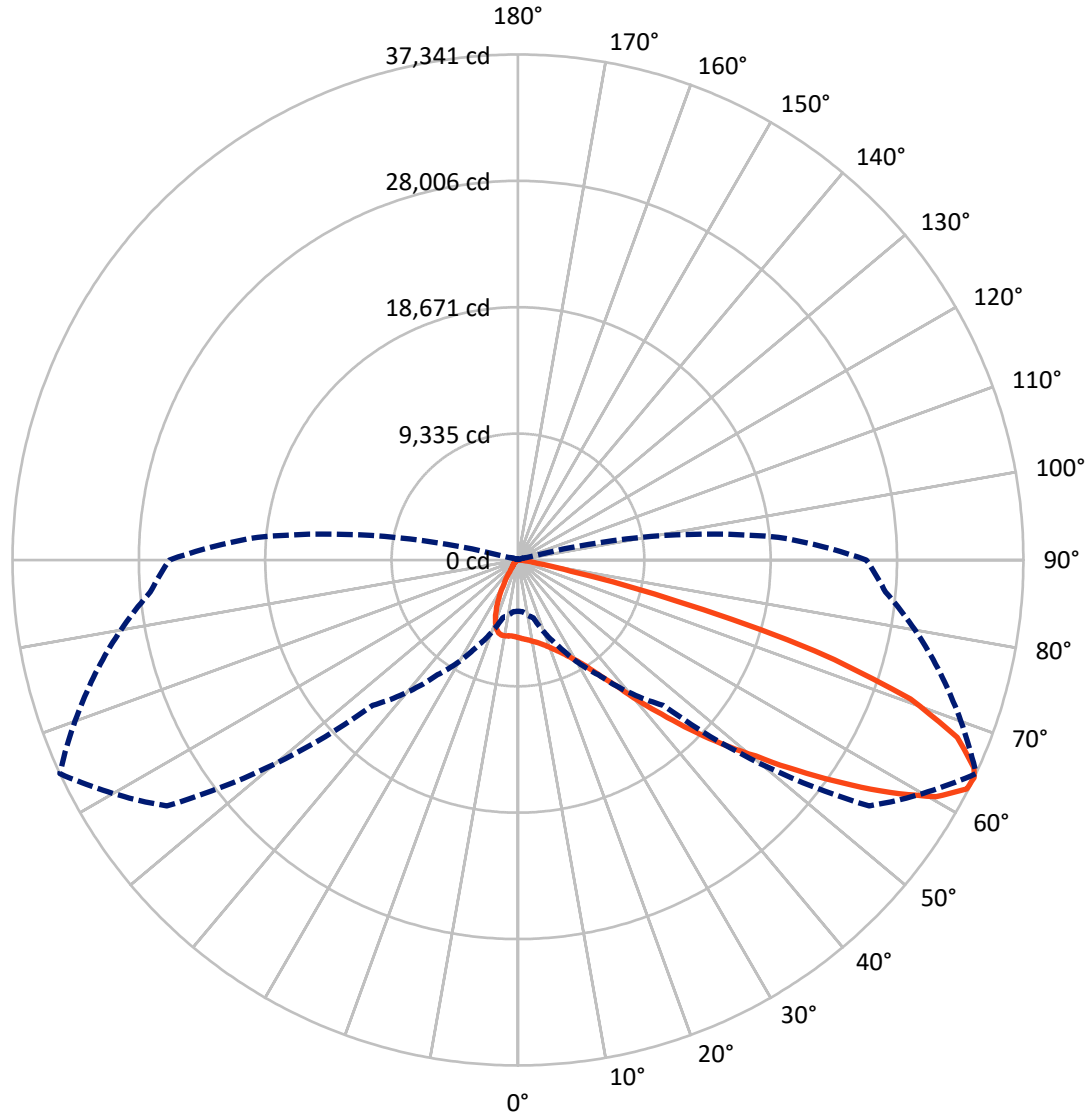
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

REPORT NUMBER: P622766
CATALOG NUMBER: PRV-M-PA6C-740-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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 CATALOG NUMBER: PRV-M-PA6C-740-U-T2U-HSS

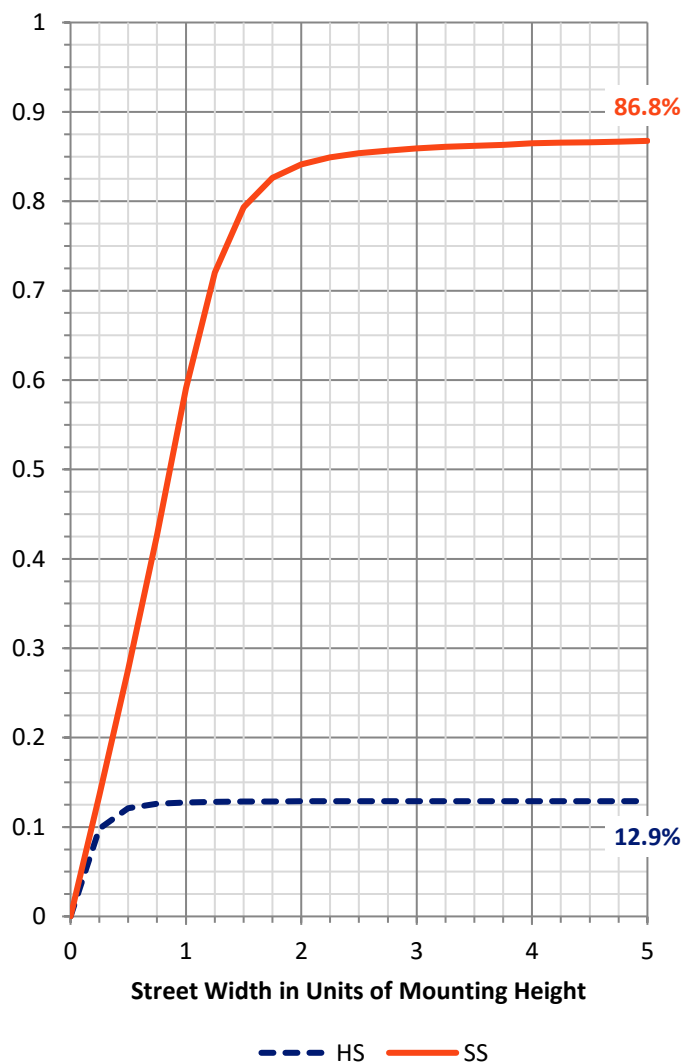
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5617.4	0.0	5617.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	37464.6	0.0	37464.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	43082.0	0.0	43082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.4	1.3
10°-20°	1440.3	3.3
20°-30°	2314.8	5.4
30°-40°	4218.8	9.8
40°-50°	8596.7	20.0
50°-60°	11858.1	27.5
60°-70°	9973.7	23.2
70°-80°	3906.6	9.1
80°-90°	231.7	0.5
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°	43082.0	100.0
0°-180°	43082.0	100.0

Coefficient of Utilization

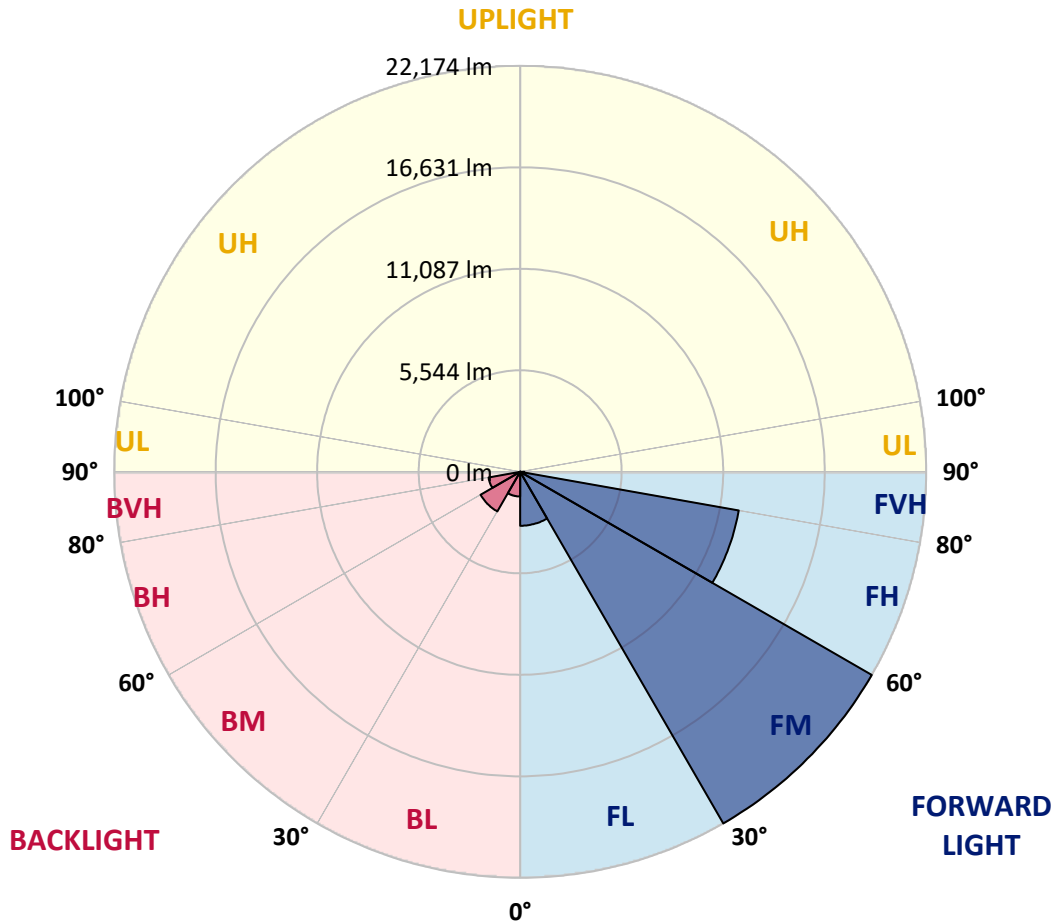


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2946.3	6.8			
FM (30°-60°)	22174.5	51.5			
FH (60°-80°)	12123.0	28.1			G5
FVH (80°-90°)	220.8	0.5			G2/225
BL (0°-30°)	1350.1	3.1	B3/2500		
BM (30°-60°)	2499.1	5.8	B2/2500		
BH (60°-80°)	1757.4	4.1	B3/2500		G3/2500
BVH (80°-90°)	10.9	0.0			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7
2.5°	5962.8	5909.3	5903.3	5895.9	5873.6	5858.7	5833.4	5811.1	5778.3	5748.6	5729.2
5°	6047.7	5988.1	5986.7	5988.1	5968.8	5950.9	5922.7	5885.5	5833.4	5779.8	5745.6
7.5°	6059.6	6004.5	6009.0	6014.9	6012.0	6012.0	6006.0	5982.2	5934.6	5861.7	5820.0
10°	6114.6	6065.5	6062.5	6059.6	6055.1	6068.5	6101.2	6111.7	6067.0	5992.6	5936.1
12.5°	6244.1	6190.5	6187.5	6177.1	6166.7	6177.1	6224.8	6253.0	6224.8	6135.5	6070.0
15°	6419.7	6363.1	6357.2	6346.8	6339.3	6358.7	6397.4	6427.1	6394.4	6294.7	6212.8
17.5°	6620.6	6550.6	6567.0	6558.1	6559.6	6573.0	6619.1	6648.9	6607.2	6488.1	6385.5
20°	6842.3	6769.4	6800.6	6812.6	6808.1	6837.9	6897.4	6924.2	6855.7	6698.0	6573.0
22.5°	7095.3	7020.9	7075.9	7119.1	7078.9	7142.9	7226.2	7242.6	7154.8	6937.6	6776.8
25°	7424.2	7336.4	7400.4	7449.5	7367.6	7468.8	7592.3	7625.1	7523.9	7266.4	7053.6
27.5°	7949.5	7830.4	7837.9	7826.0	7724.8	7839.3	8017.9	8090.8	7971.8	7659.3	7403.3
30°	9126.6	8921.2	8675.7	8345.3	8154.8	8314.1	8553.6	8681.6	8540.2	8113.2	7790.2
32.5°	11238.2	10913.8	10406.3	9448.0	8797.7	8888.5	9220.3	9418.2	9288.8	8784.3	8369.1
35°	14272.4	13796.2	12887.0	11628.1	10052.2	9660.8	10076.0	10515.0	10390.0	9840.9	9320.0
37.5°	17879.6	17262.0	16019.5	14311.1	12025.4	10833.4	11217.4	11754.6	11821.5	11186.1	10564.1
40°	20910.9	20269.5	19215.9	17398.9	14855.8	12778.4	12729.3	13641.5	13562.6	12790.3	12043.3
42.5°	23128.2	22495.7	21805.2	20401.9	18407.9	15970.4	14759.0	15565.6	15464.4	14473.3	13608.7
45°	24412.4	23800.8	23406.4	22839.5	21710.0	20527.0	17506.1	17879.6	17495.7	16235.2	15198.0
47.5°	24774.0	24144.5	24104.4	24422.8	24684.7	24893.1	20988.3	20321.6	19582.0	17901.9	16802.2
50°	23568.6	23184.7	23741.3	25080.6	26937.7	28168.4	24910.9	22774.0	21739.8	19707.0	18418.3
52.5°	20015.0	19960.0	21498.7	24257.6	28177.3	30980.9	28711.5	25833.5	23902.0	21413.9	20009.1
55°	15321.6	15306.7	17326.0	20998.7	27480.9	31902.0	31928.8	29079.1	25958.5	23028.5	21532.9
57.5°	10436.1	10605.7	13332.0	16580.5	23754.7	31064.2	33905.0	32405.0	28046.4	24565.7	22968.9
60°	6522.4	6590.8	8892.9	12629.6	18150.4	27043.4	34466.1	35507.7	29849.9	25836.5	24245.7
62.5°	4534.3	4556.6	5547.7	9044.7	12791.8	19818.6	33414.0	37233.9	31506.2	26832.1	25284.4
64°	3787.2	3827.4	4434.6	6949.5	10349.8	15189.1	31675.9	37341.1	32299.4	27263.6	25748.7
65°	3363.1	3421.2	3881.0	5748.6	9035.8	12137.0	29693.7	37027.1	32730.9	27471.9	25943.7
67.5°	2644.4	2631.0	2860.1	3696.5	6523.9	6629.5	22455.5	35004.7	33144.6	27510.6	25973.4
70°	2312.5	2328.9	2437.5	2671.2	4592.3	4169.7	11629.6	30766.6	31689.2	26449.6	24827.6
72.5°	1806.6	1811.0	2068.5	2312.5	3040.2	2769.4	4998.6	22948.1	26315.7	22866.3	21146.0
75°	1200.9	1257.5	1535.7	2010.4	2080.4	1878.0	2180.1	12001.6	15949.5	15285.8	13601.3
77.5°	806.6	834.8	1022.3	1485.1	1857.2	1193.5	1208.3	4017.9	6592.3	5907.8	5151.8
80°	511.9	531.3	672.6	1029.8	1437.5	869.1	712.8	1428.6	1852.7	1230.7	1001.5
82.5°	348.2	369.1	449.4	742.6	921.1	782.7	425.6	662.2	726.2	321.4	242.6
85°	156.3	215.8	317.0	494.1	599.7	404.8	261.9	330.4	398.8	148.8	83.3
87.5°	29.8	44.6	184.5	266.4	180.1	96.7	128.0	125.0	175.6	59.5	26.8
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°	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7
2.5°	5714.3	5696.5	5669.7	5641.4	5610.2	5595.3	5587.8	5575.9	5573.0	5514.9
5°	5724.7	5680.1	5629.5	5575.9	5519.4	5486.7	5462.8	5433.1	5419.7	5364.6
7.5°	5788.7	5715.8	5639.9	5549.2	5433.1	5300.6	5125.0	5025.3	4946.5	4901.8
10°	5898.9	5794.7	5678.6	5479.2	5150.3	4739.6	4297.7	4001.5	3846.8	3831.9
12.5°	6016.4	5878.0	5689.0	5224.7	4500.0	3767.9	3099.7	2705.4	2520.9	2513.4
15°	6145.9	5971.8	5599.7	4695.0	3589.3	2657.8	2000.0	1659.2	1492.6	1483.6
17.5°	6302.1	6071.5	5360.2	3946.5	2592.3	1689.0	1258.9	1092.3	1043.2	1037.2
20°	6473.3	6151.8	4943.5	3102.7	1727.7	1148.8	967.3	881.0	843.8	837.8
22.5°	6654.8	6183.1	4398.8	2269.4	1190.5	919.7	799.1	717.3	678.6	672.6
25°	6892.9	6163.7	3748.5	1565.5	942.0	766.4	645.8	577.4	540.2	537.2
27.5°	7209.9	6087.8	3009.0	1120.5	799.1	633.9	520.8	458.3	434.5	431.6
30°	7544.7	5855.7	2285.7	882.4	674.1	517.9	419.6	373.5	355.7	352.7
32.5°	7997.1	5520.9	1638.4	727.7	559.5	422.6	343.8	308.0	296.1	294.6
35°	8808.1	5221.8	1110.1	599.7	456.8	346.7	287.2	261.9	256.0	256.0
37.5°	9906.3	4922.7	808.0	501.5	372.0	288.7	245.5	229.2	227.7	227.7
40°	11177.2	4562.5	644.4	422.6	311.0	247.0	212.8	200.9	203.9	203.9
42.5°	12462.9	4077.4	553.6	358.6	266.4	214.3	186.0	174.1	180.1	181.5
45°	13720.3	3433.1	488.1	308.0	233.6	186.0	160.7	150.3	157.7	157.7
47.5°	14843.9	2775.3	430.1	267.9	205.4	162.2	135.4	125.0	131.0	133.9
50°	15952.5	2129.5	376.5	236.6	184.5	139.9	113.1	104.2	110.1	113.1
52.5°	16931.7	1723.2	328.9	211.3	165.2	119.0	93.8	84.8	92.3	93.8
55°	17782.9	1404.8	284.2	189.0	144.3	99.7	75.9	69.9	77.4	78.9
57.5°	18503.1	1162.2	245.5	168.2	126.5	84.8	64.0	59.5	65.5	68.5
60°	19003.1	944.9	208.3	148.8	108.6	71.4	53.6	49.1	53.6	53.6
62.5°	19274.0	766.4	178.6	131.0	93.8	62.5	46.1	37.2	40.2	40.2
64°	19306.7	680.1	162.2	120.5	84.8	58.0	40.2	29.8	31.3	31.3
65°	19274.0	626.5	148.8	113.1	80.4	55.1	37.2	23.8	23.8	25.3
67.5°	18845.4	514.9	122.0	95.2	67.0	46.1	26.8	14.9	14.9	14.9
70°	17677.2	395.8	101.2	77.4	55.1	38.7	20.8	10.4	8.9	8.9
72.5°	14192.1	272.3	80.4	58.0	43.2	31.3	14.9	6.0	3.0	3.0
75°	6641.4	174.1	56.5	38.7	29.8	23.8	10.4	3.0	0.0	0.0
77.5°	1943.5	99.7	35.7	25.3	20.8	16.4	8.9	1.5	0.0	0.0
80°	395.8	40.2	23.8	19.3	16.4	13.4	7.4	1.5	0.0	0.0
82.5°	67.0	20.8	19.3	14.9	13.4	10.4	6.0	0.0	0.0	0.0
85°	25.3	14.9	16.4	13.4	11.9	8.9	4.5	0.0	0.0	0.0
87.5°	14.9	14.9	14.9	13.4	10.4	6.0	3.0	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)