

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: P622543

Luminaire Tested: **PRV-M-C275-D-U-T3-BZ-7050-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622543  
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-C275-D-U-T3-BZ-7050-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K 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: 73443 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

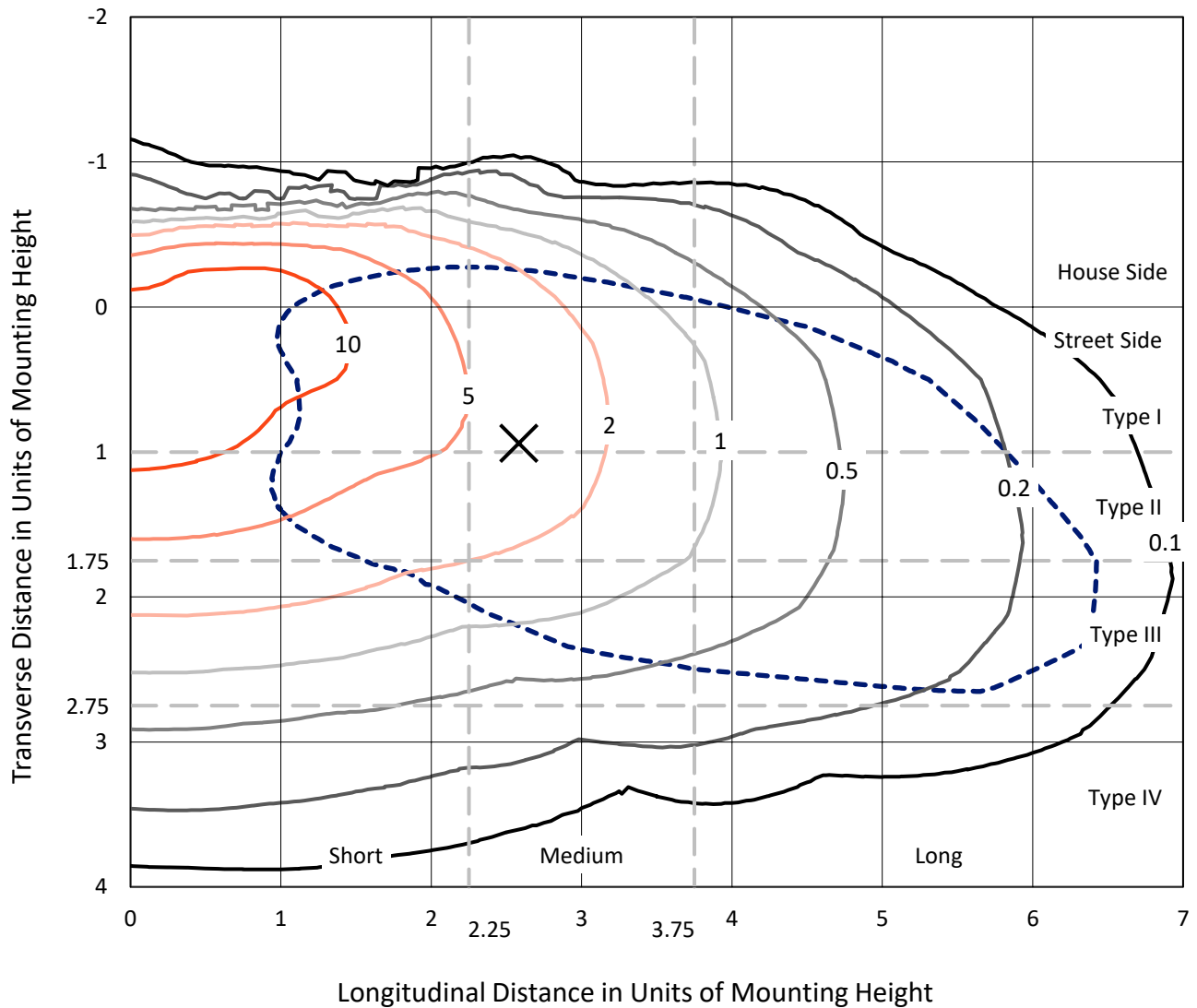
Input Watts (W): 587.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P622543  
 CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050-HSS

### Iso-Footcandle Lines of Horizontal Illumination

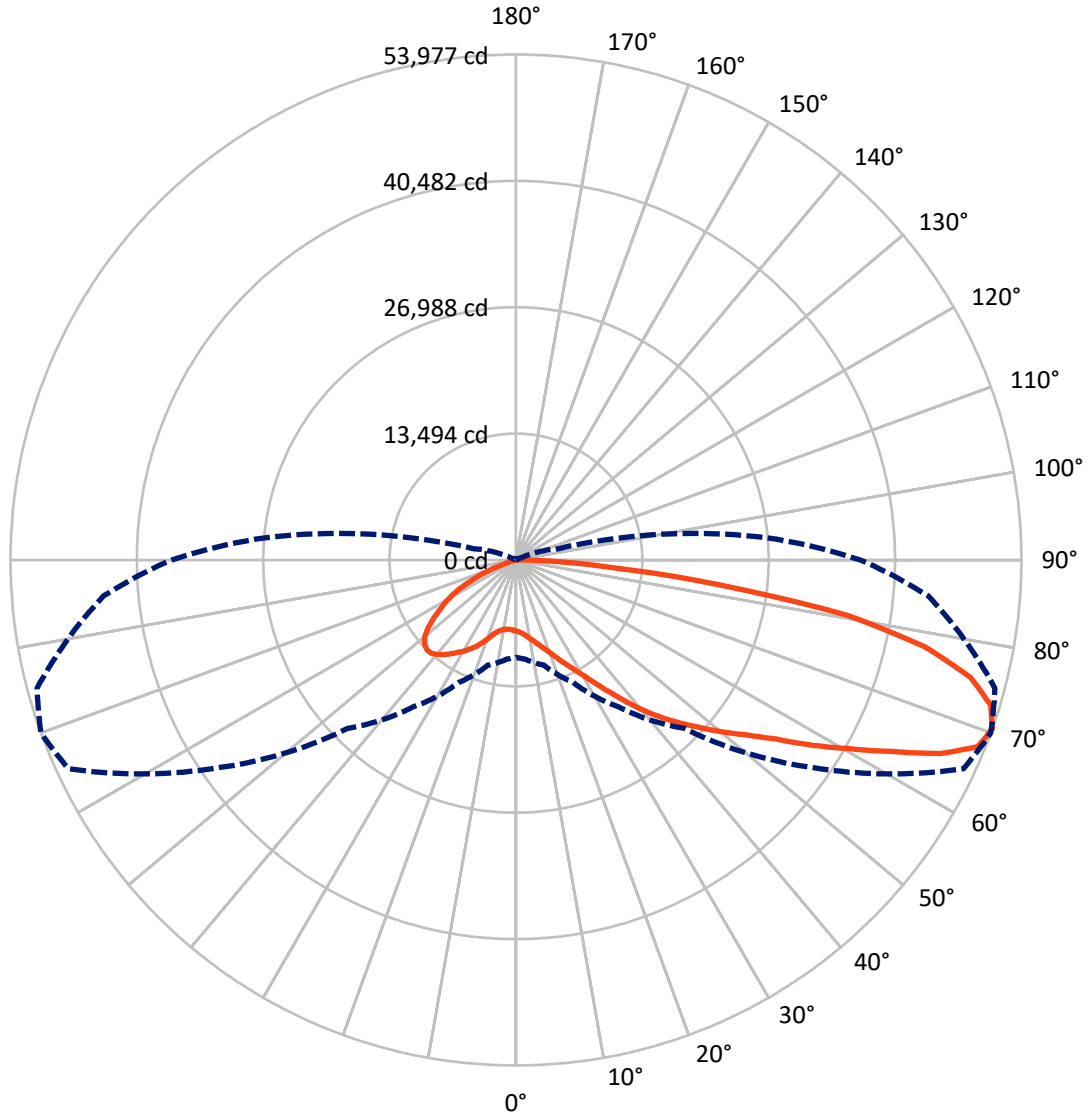
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P622543  
CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P622543  
 CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050-HSS

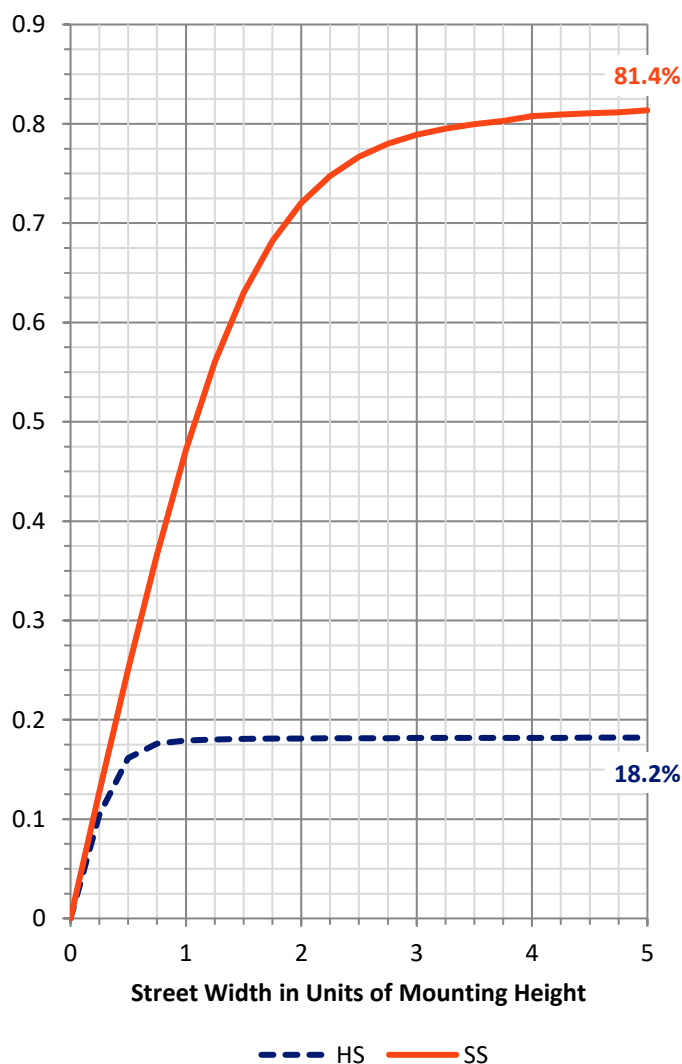
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13519.4	0.0	13519.4
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	59923.6	0.0	59923.6
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	73443.0	0.0	73443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	730.3	1.0
10°-20°	2276.4	3.1
20°-30°	4194.0	5.7
30°-40°	7004.4	9.5
40°-50°	10928.0	14.9
50°-60°	14988.4	20.4
60°-70°	17788.9	24.2
70°-80°	13112.6	17.9
80°-90°	2420.0	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°	73443.0	100.0
0°-180°	73443.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P622543

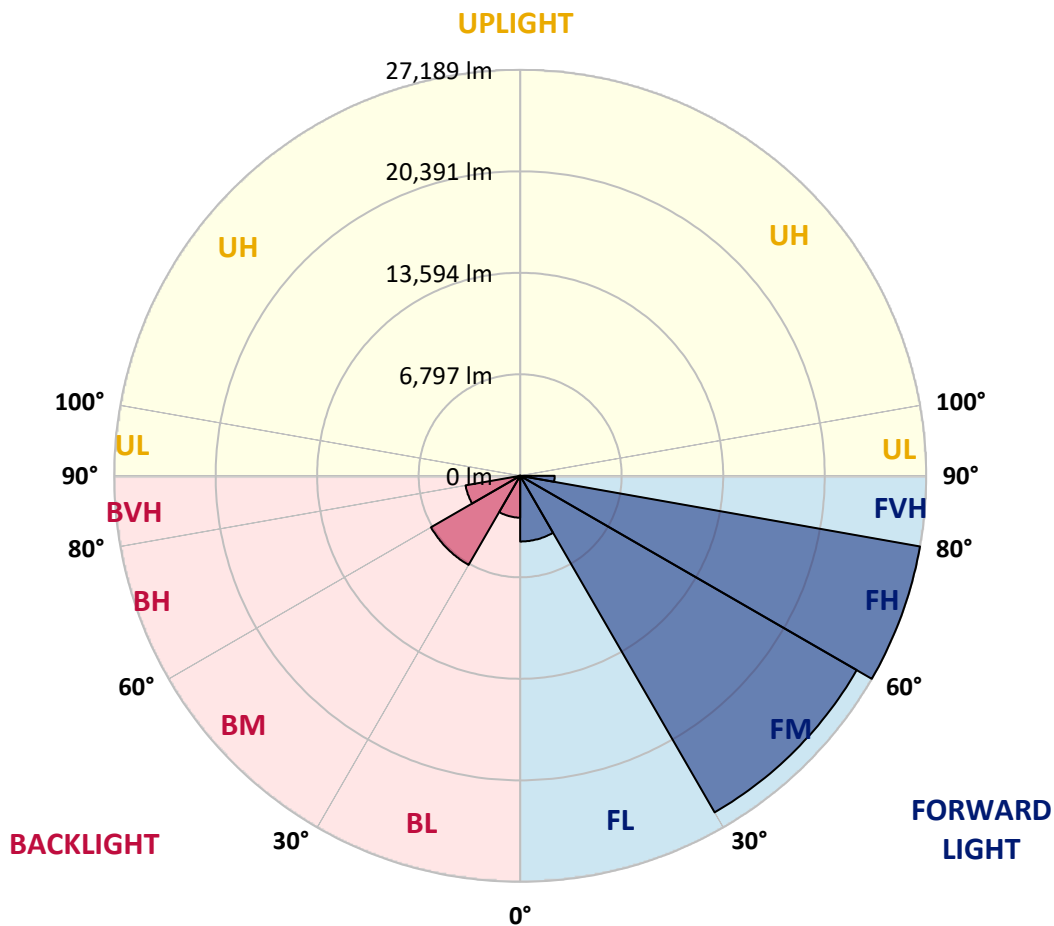
CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4401.5	6.0			
FM (30°-60°)	26025.2	35.4			
FH (60°-80°)	27188.6	37.0			G5
FVH (80°-90°)	2308.3	3.1			G5
BL (0°-30°)	2799.1	3.8	B4/5000		
BM (30°-60°)	6895.6	9.4	B4/8500		
BH (60°-80°)	3712.8	5.1	B4/5000		G4/5000
BVH (80°-90°)	111.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





REPORT NUMBER: P622543

CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6
2.5°	7927.1	7939.9	7970.4	7911.0	7911.0	7813.2	7806.7	7774.7	7718.5	7697.6	7668.8
5°	8280.0	8304.1	8307.3	8262.4	8228.7	8129.2	8066.6	8002.5	7922.3	7880.5	7790.7
7.5°	8552.8	8570.4	8607.3	8578.4	8559.2	8429.2	8395.5	8312.1	8201.4	8132.4	7988.0
10°	8740.5	8798.2	8828.7	8822.3	8862.4	8767.7	8756.5	8665.1	8554.4	8458.1	8283.2
12.5°	8884.9	8934.6	8998.8	9043.7	9119.1	9117.5	9114.3	9059.7	8961.9	8835.1	8633.0
15°	8992.4	9053.3	9159.2	9265.1	9395.0	9433.5	9544.2	9529.8	9431.9	9321.2	9066.2
17.5°	9237.8	9292.4	9377.4	9504.1	9680.6	9792.9	9977.4	10035.2	9988.6	9874.7	9590.8
20°	9598.8	9611.6	9695.1	9810.6	10006.3	10235.7	10563.0	10709.0	10612.7	10564.6	10295.1
22.5°	10025.5	10064.1	10075.3	10181.2	10373.7	10712.2	11161.4	11403.7	11419.7	11307.4	11110.1
25°	10513.3	10526.1	10503.6	10590.3	10864.6	11259.3	11791.9	12178.6	12278.0	12249.2	12191.4
27.5°	11028.3	11106.9	11108.5	11135.8	11389.2	11819.2	12499.4	13115.5	13245.5	13308.0	13564.7
30°	12302.1	12334.2	12202.6	11966.8	12042.2	12512.3	13308.0	14116.6	14344.4	14615.6	15363.2
32.5°	13922.5	13863.1	13670.6	13243.9	12931.0	13301.6	14161.5	15210.8	15767.5	16378.8	17153.7
35°	15496.4	15454.7	15302.2	14875.5	14336.4	14161.5	15069.6	16484.6	17399.1	18604.0	19252.1
37.5°	16970.8	17012.5	16898.6	16478.2	15862.2	15437.0	16077.1	17821.1	19250.5	20814.8	21361.8
40°	18413.1	18448.4	18409.9	18037.6	17681.5	17076.6	17241.9	19248.9	21188.6	22927.7	23383.3
42.5°	19550.5	19682.1	19824.9	19415.8	19247.3	18883.1	18464.4	20564.5	23078.5	24942.7	25276.4
45°	20508.3	20489.1	20651.1	20665.6	20734.5	20567.7	20031.8	22030.9	24915.5	26866.4	26945.0
47.5°	21201.4	21129.2	21286.4	21735.7	22167.2	22123.9	21848.0	23530.9	26808.6	28698.5	28597.4
50°	21565.6	21570.4	21937.8	22674.2	23534.1	23766.8	23688.1	25684.0	28927.9	30670.3	30293.2
52.5°	21851.2	21973.1	22573.1	23527.7	24921.9	25438.5	25565.2	28352.0	31055.3	32611.5	31896.0
55°	21979.5	22189.7	22868.3	24076.4	25919.8	26983.5	27482.4	31150.0	33747.4	35029.3	33611.0
57.5°	21304.1	21552.8	22582.8	24217.6	26604.8	28162.7	29465.4	34466.1	37334.7	37687.7	35624.5
60°	19717.4	19881.0	21527.1	23925.6	26762.1	29245.6	31746.8	38505.9	40909.2	40824.1	37703.7
62.5°	18161.2	18260.6	19767.1	22820.2	26322.5	29775.0	34071.5	43001.2	45032.3	44148.4	39741.2
65°	16033.8	16191.0	17885.2	20811.6	24937.9	29531.2	36540.6	47742.1	49842.2	48982.2	41960.0
67.5°	13494.1	13657.8	15087.3	17894.9	22683.8	28258.9	37915.5	51339.0	53174.4	52096.3	43500.2
70°	10410.6	10607.9	11631.5	14429.5	19171.9	25449.7	38632.6	52741.2	53976.6	52951.4	44210.9
72.5°	7237.2	7426.5	8053.8	9834.6	14617.2	21373.1	37979.6	52473.3	53009.1	52062.6	42786.3
75°	4651.0	4922.1	5427.5	6573.0	8616.9	15451.4	34023.3	49839.0	50145.4	48736.8	39109.1
77.5°	707.5	807.0	2960.0	3852.0	5433.9	7412.1	24119.7	44106.6	44648.9	43031.7	33959.2
80°	499.0	516.6	1277.1	2480.3	3280.9	4142.4	11185.5	32059.6	35929.3	33891.8	23935.2
82.5°	356.2	385.0	606.4	1622.0	1830.6	1588.3	3641.9	18175.6	21807.9	21697.2	12761.0
85°	224.6	248.7	369.0	558.3	988.3	933.7	1168.0	7479.5	10182.8	10219.7	4971.9
87.5°	118.7	130.0	215.0	328.9	465.3	519.8	571.1	2133.8	3590.5	3418.9	1105.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622543

CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6	7596.6
2.5°	7619.0	7595.0	7545.2	7460.2	7376.8	7319.0	7306.2	7222.8	7213.1	7221.2	7217.9
5°	7715.3	7657.5	7529.2	7359.1	7192.3	7055.9	6959.6	6820.1	6757.5	6735.0	6762.3
7.5°	7888.6	7789.1	7580.5	7319.0	7051.1	6816.9	6629.2	6446.3	6356.4	6289.0	6237.7
10°	8138.8	8002.5	7696.0	7331.9	6962.9	6642.0	6343.6	6083.7	5904.0	5802.9	5772.4
12.5°	8474.1	8288.0	7883.7	7421.7	6940.4	6497.6	6090.1	5724.3	5482.0	5344.1	5318.4
15°	8856.0	8673.1	8191.8	7627.1	7038.3	6470.3	5947.3	5480.4	5087.4	4890.0	4833.9
17.5°	9363.0	9159.2	8639.4	7984.8	7267.7	6540.9	5836.6	5175.6	4625.3	4359.0	4323.7
20°	10073.7	9857.1	9277.9	8459.7	7569.3	6611.5	5677.8	4822.7	4105.5	3747.7	3667.5
22.5°	10917.6	10725.0	10051.2	8957.1	7808.3	6592.3	5427.5	4306.1	3415.6	3006.5	2936.0
25°	12074.3	11888.2	10848.6	9369.4	7928.7	6452.7	5004.0	3603.4	2579.8	2156.2	2129.0
27.5°	13481.3	13072.2	11554.5	9703.1	7883.7	6090.1	4310.9	2619.9	1734.3	1400.6	1360.5
30°	14979.8	14331.6	12343.8	9972.6	7757.0	5514.1	3287.3	1726.3	1087.7	916.1	880.8
32.5°	16733.3	15860.5	13093.1	10155.5	7466.6	4708.8	2238.1	1060.5	688.3	585.6	579.2
35°	18581.5	17469.7	14018.8	10253.4	6942.0	3637.0	1280.3	619.3	430.0	418.7	418.7
37.5°	20551.7	19213.6	15023.1	10267.8	6146.2	2390.5	741.2	370.6	330.5	380.2	399.5
40°	22354.9	20792.3	16040.2	10133.0	5133.9	1366.9	409.1	282.4	296.8	351.4	369.0
42.5°	24081.2	22319.6	17038.1	9813.8	3682.0	750.8	288.8	247.1	263.1	292.0	298.4
45°	25627.8	23693.0	17793.8	9226.6	2283.0	421.9	261.5	216.6	218.2	239.0	242.3
47.5°	27124.7	24973.2	18271.9	8324.9	1180.8	348.1	239.0	195.7	190.9	211.8	218.2
50°	28546.1	26166.9	18554.2	7092.8	608.0	322.5	226.2	179.7	181.3	221.4	224.6
52.5°	29922.6	27305.9	18624.8	5336.0	420.3	290.4	207.0	168.5	174.9	229.4	237.4
55°	31403.4	28499.6	18467.6	3200.7	396.3	266.3	187.7	152.4	165.2	186.1	189.3
57.5°	32759.1	29683.6	17883.6	1357.3	375.4	243.9	170.1	139.6	133.2	150.8	157.2
60°	34257.6	30809.8	16491.1	640.1	349.7	218.2	152.4	123.5	113.9	125.1	131.6
62.5°	36351.2	31655.3	14116.6	481.3	328.9	202.1	136.4	112.3	102.7	109.1	115.5
65°	37485.5	31737.1	11025.1	420.3	312.8	189.3	125.1	105.9	91.4	94.7	101.1
67.5°	37921.9	30124.8	7994.4	365.8	290.4	176.5	115.5	99.5	85.0	81.8	85.0
70°	36786.0	27018.8	4646.2	336.9	263.1	163.6	109.1	96.3	78.6	69.0	69.0
72.5°	33474.6	22757.6	1925.2	300.0	234.2	146.0	102.7	99.5	75.4	54.5	54.5
75°	28831.7	17732.8	574.4	248.7	200.5	133.2	102.7	102.7	73.8	41.7	41.7
77.5°	22894.0	11055.5	341.7	194.1	158.8	118.7	101.1	97.9	56.2	32.1	30.5
80°	13012.8	3922.6	248.7	144.4	121.9	97.9	89.8	80.2	41.7	27.3	27.3
82.5°	5199.7	888.8	176.5	102.7	99.5	75.4	59.4	46.5	33.7	24.1	24.1
85°	1363.7	280.8	105.9	67.4	61.0	56.2	20.9	19.3	27.3	22.5	22.5
87.5°	224.6	112.3	56.2	51.3	38.5	27.3	9.6	9.6	16.0	19.3	20.9
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)