

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: P622459

Luminaire Tested: **PRV-M-C225-D-U-T3-BZ-7050-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622459
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-C225-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: 55039 lumens
Efficiency: N/A
Efficacy: 131.6 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

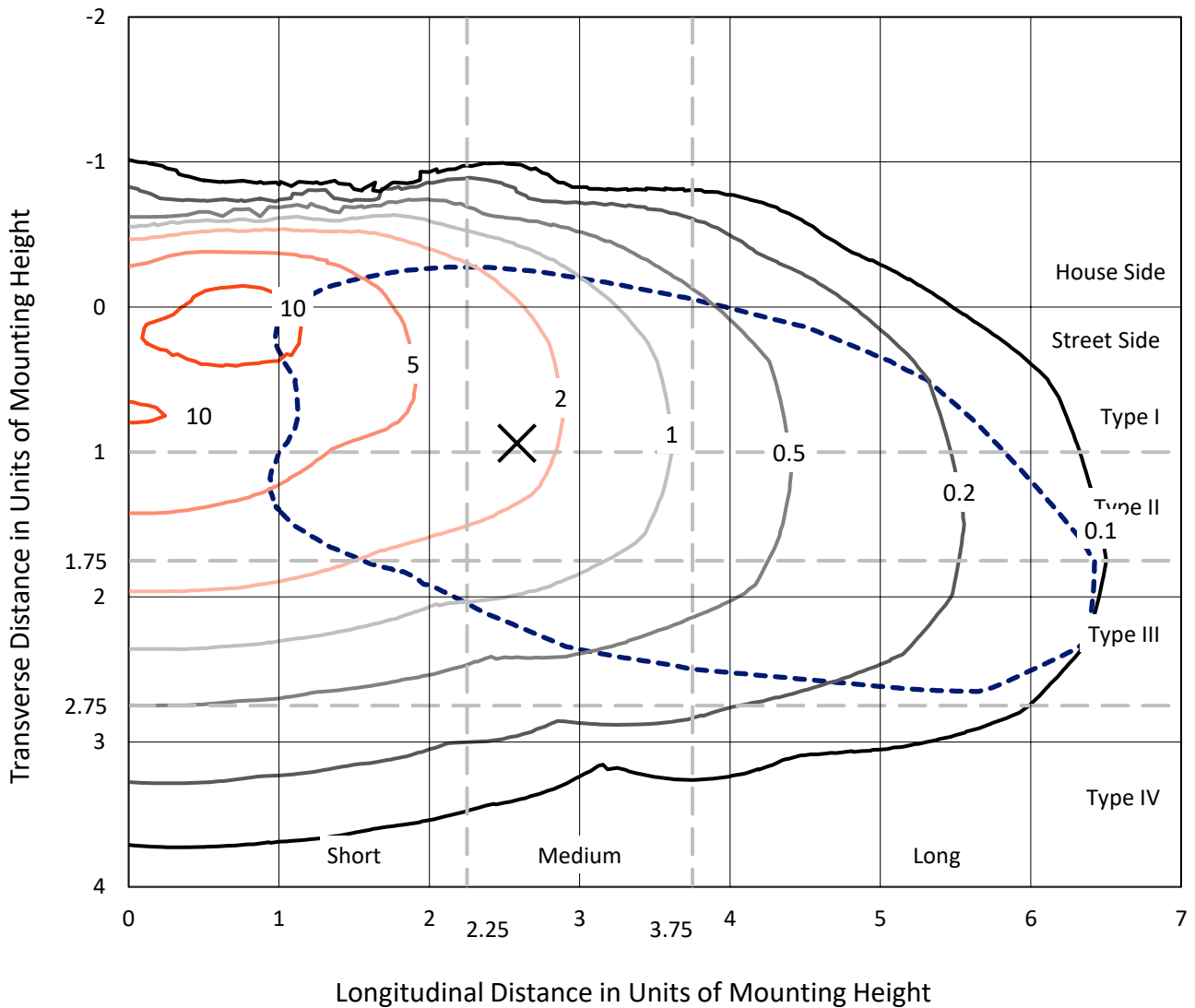
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

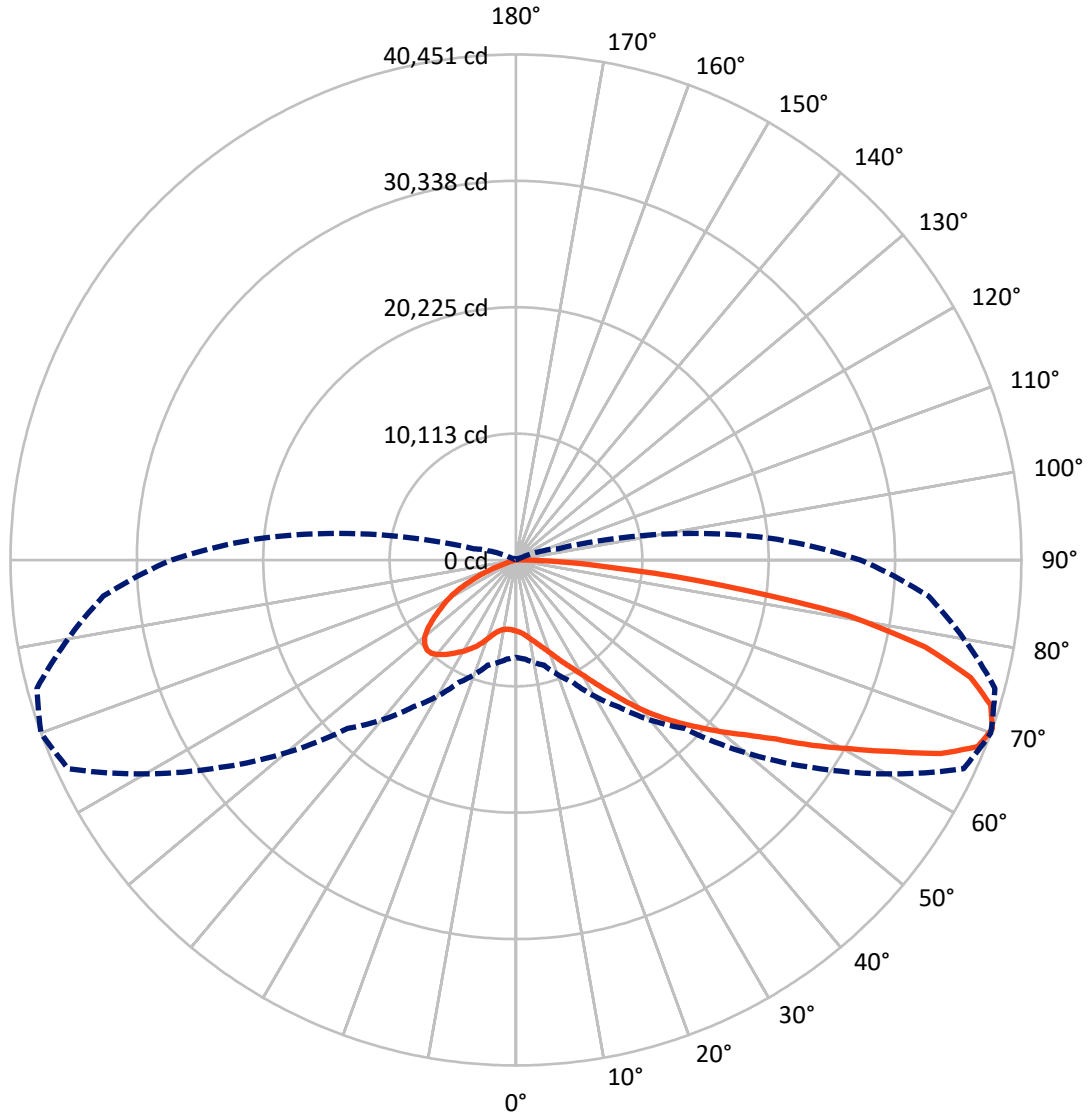
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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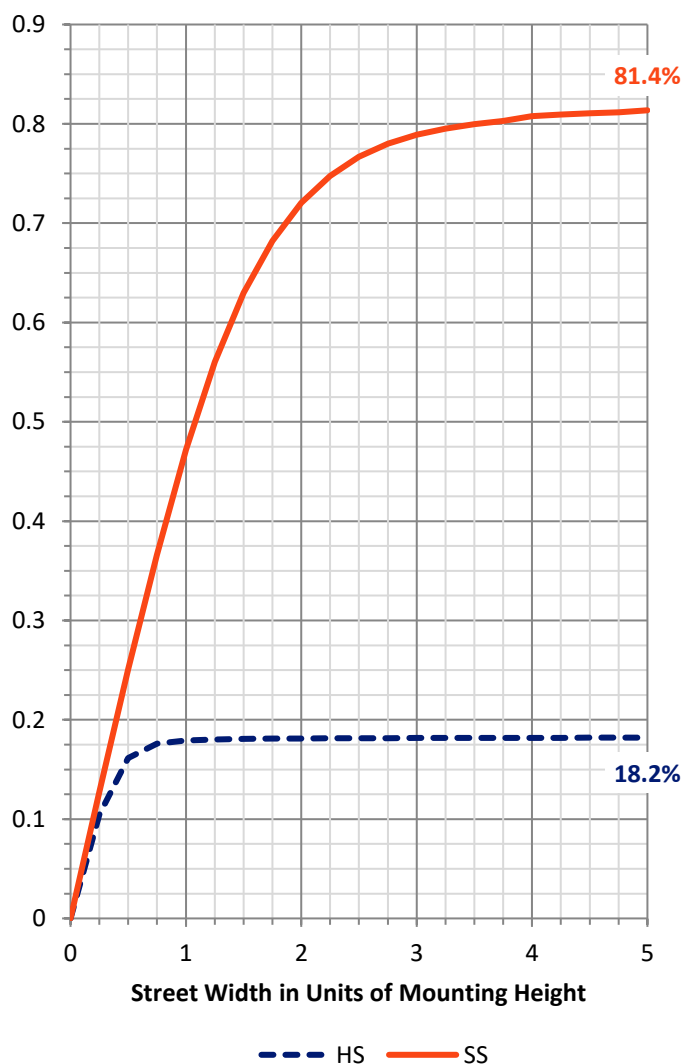
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10131.6	0.0	10131.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	44907.4	0.0	44907.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	55039.0	0.0	55039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.3	1.0
10°-20°	1705.9	3.1
20°-30°	3143.0	5.7
30°-40°	5249.2	9.5
40°-50°	8189.6	14.9
50°-60°	11232.5	20.4
60°-70°	13331.2	24.2
70°-80°	9826.7	17.9
80°-90°	1813.6	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°	55039.0	100.0
0°-180°	55039.0	100.0

Coefficient of Utilization



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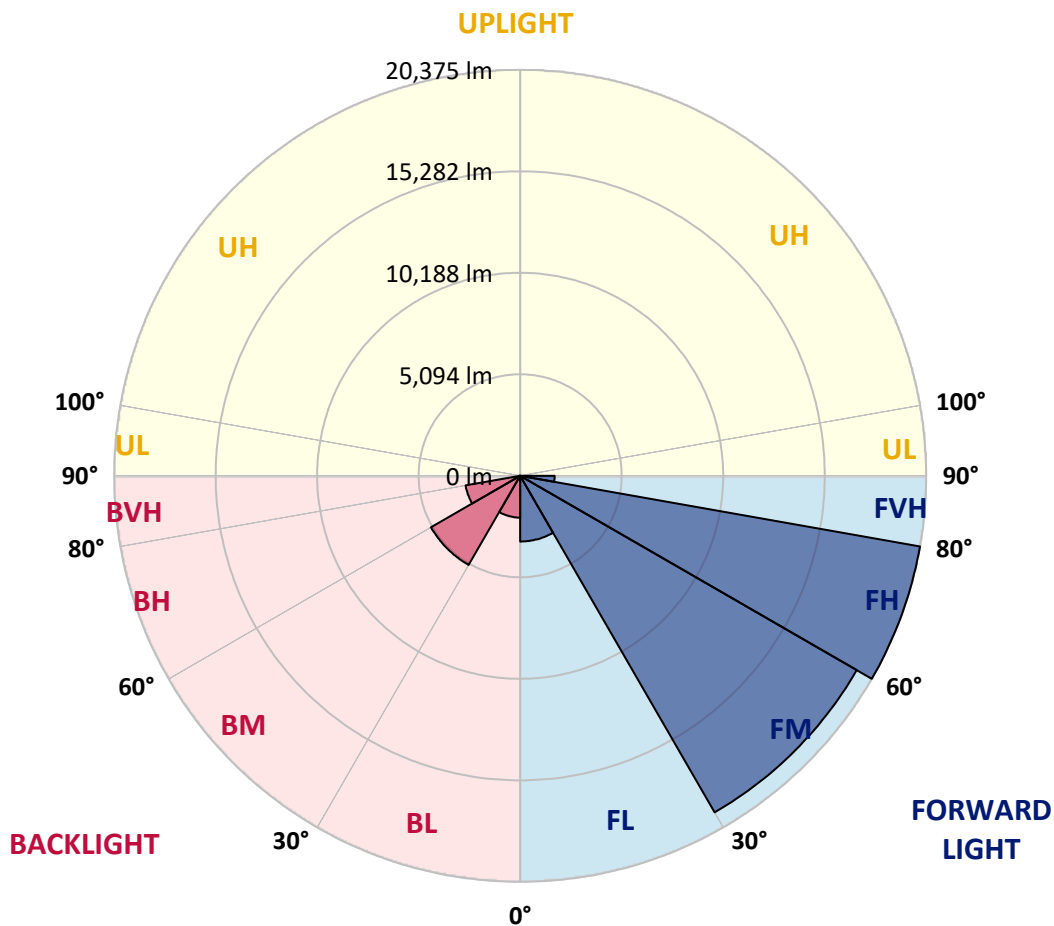
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3298.5	6.0			
FM (30°-60°)	19503.6	35.4			
FH (60°-80°)	20375.5	37.0			G5
FVH (80°-90°)	1729.8	3.1			G5
BL (0°-30°)	2097.7	3.8	B3/2500		
BM (30°-60°)	5167.7	9.4	B4/8500		
BH (60°-80°)	2782.4	5.1	B4/5000		G4/5000
BVH (80°-90°)	83.8	0.2			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0
2.5°	5940.6	5950.2	5973.1	5928.6	5928.6	5855.3	5850.5	5826.4	5784.3	5768.7	5747.1
5°	6205.1	6223.2	6225.6	6191.9	6166.7	6092.1	6045.2	5997.1	5937.0	5905.8	5838.4
7.5°	6409.5	6422.8	6450.4	6428.8	6414.3	6317.0	6291.7	6229.2	6146.2	6094.5	5986.3
10°	6550.2	6593.5	6616.3	6611.5	6641.6	6570.6	6562.2	6493.7	6410.7	6338.6	6207.5
12.5°	6658.4	6695.7	6743.8	6777.4	6834.0	6832.7	6830.3	6789.5	6716.1	6621.1	6469.6
15°	6739.0	6784.7	6864.0	6943.4	7040.7	7069.6	7152.6	7141.7	7068.4	6985.4	6794.3
17.5°	6922.9	6963.8	7027.5	7122.5	7254.8	7338.9	7477.2	7520.5	7485.6	7400.2	7187.4
20°	7193.4	7203.1	7265.6	7352.1	7498.8	7670.8	7916.0	8025.4	7953.3	7917.2	7715.2
22.5°	7513.3	7542.1	7550.5	7629.9	7774.2	8027.8	8364.5	8546.0	8558.1	8473.9	8326.0
25°	7878.8	7888.4	7871.5	7936.5	8142.1	8437.8	8837.0	9126.8	9201.3	9179.7	9136.4
27.5°	8264.7	8323.6	8324.8	8345.3	8535.2	8857.4	9367.2	9828.9	9926.3	9973.2	10165.6
30°	9219.3	9243.4	9144.8	8968.1	9024.6	9376.8	9973.2	10579.2	10749.9	10953.1	11513.4
32.5°	10433.7	10389.2	10244.9	9925.1	9690.6	9968.4	10612.8	11399.1	11816.3	12274.4	12855.1
35°	11613.1	11581.9	11467.7	11147.9	10743.9	10612.8	11293.3	12353.8	13039.1	13942.0	14427.8
37.5°	12718.1	12749.3	12664.0	12349.0	11887.3	11568.7	12048.4	13355.3	14426.6	15598.8	16008.8
40°	13799.0	13825.4	13796.5	13517.6	13250.7	12797.4	12921.3	14425.4	15879.0	17182.3	17523.7
42.5°	14651.4	14750.0	14857.0	14550.4	14424.2	14151.2	13837.4	15411.3	17295.3	18692.4	18942.5
45°	15369.2	15354.7	15476.2	15487.0	15538.7	15413.7	15012.1	16510.2	18671.9	20133.9	20192.9
47.5°	15888.6	15834.5	15952.3	16288.9	16612.4	16579.9	16373.1	17634.3	20090.7	21507.0	21431.2
50°	16161.5	16165.1	16440.4	16992.3	17636.7	17811.1	17752.2	19247.8	21678.9	22984.6	22702.1
52.5°	16375.5	16466.9	16916.6	17631.9	18676.7	19063.9	19158.9	21247.3	23273.2	24439.4	23903.2
55°	16471.7	16629.2	17137.8	18043.1	19424.6	20221.7	20595.6	23344.1	25290.7	26251.3	25188.5
57.5°	15965.5	16151.9	16923.8	18148.9	19938.0	21105.4	22081.7	25829.3	27979.0	28243.5	26697.4
60°	14776.4	14899.1	16132.6	17930.1	20055.8	21917.0	23791.4	28856.7	30657.8	30594.1	28255.6
62.5°	13610.2	13684.7	14813.7	17101.7	19726.4	22313.7	25533.5	32225.6	33747.7	33085.3	29782.5
65°	12015.9	12133.7	13403.4	15596.4	18688.8	22131.0	27383.9	35778.4	37352.3	36707.8	31445.3
67.5°	10112.7	10235.3	11306.6	13410.6	16999.5	21177.6	28414.3	38474.0	39849.5	39041.5	32599.5
70°	7801.8	7949.7	8716.8	10813.6	14367.6	19072.3	28951.7	39524.9	40450.6	39682.4	33132.2
72.5°	5423.6	5565.5	6035.6	7370.2	10954.3	16017.2	28462.4	39324.1	39725.6	39016.3	32064.5
75°	3485.5	3688.7	4067.4	4925.9	6457.6	11579.5	25497.5	37349.9	37579.5	36523.9	29308.8
77.5°	530.2	604.8	2218.3	2886.8	4072.2	5554.7	18075.6	33054.0	33460.4	32248.5	25449.4
80°	373.9	387.1	957.0	1858.8	2458.7	3104.4	8382.5	24025.8	26925.8	25398.9	17937.3
82.5°	266.9	288.6	454.5	1215.5	1371.8	1190.3	2729.3	13621.0	16343.0	16260.1	9563.2
85°	168.3	186.4	276.5	418.4	740.6	699.7	875.3	5605.2	7631.1	7658.7	3726.0
87.5°	89.0	97.4	161.1	246.5	348.7	389.5	428.0	1599.1	2690.8	2562.1	828.4
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°	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0	5693.0
2.5°	5709.8	5691.8	5654.5	5590.8	5528.2	5485.0	5475.3	5412.8	5405.6	5411.6	5409.2
5°	5781.9	5738.6	5642.5	5515.0	5390.0	5287.8	5215.6	5111.0	5064.1	5047.3	5067.8
7.5°	5911.8	5837.2	5680.9	5485.0	5284.2	5108.6	4968.0	4830.9	4763.6	4713.1	4674.6
10°	6099.3	5997.1	5767.5	5494.6	5218.0	4977.6	4753.9	4559.2	4424.5	4348.8	4325.9
12.5°	6350.6	6211.2	5908.2	5561.9	5201.2	4869.4	4564.0	4289.9	4108.3	4004.9	3985.7
15°	6636.8	6499.7	6139.0	5715.8	5274.5	4848.9	4457.0	4107.1	3812.5	3664.7	3622.6
17.5°	7016.7	6864.0	6474.5	5983.9	5446.5	4901.8	4374.0	3878.7	3466.3	3266.7	3240.2
20°	7549.3	7387.0	6953.0	6339.8	5672.5	4954.7	4255.0	3614.2	3076.7	2808.6	2748.5
22.5°	8181.7	8037.5	7532.5	6712.5	5851.7	4940.3	4067.4	3227.0	2559.7	2253.1	2200.2
25°	9048.6	8909.1	8130.0	7021.5	5941.8	4835.7	3750.0	2700.4	1933.3	1615.9	1595.5
27.5°	10103.0	9796.5	8659.1	7271.6	5908.2	4564.0	3230.6	1963.4	1299.7	1049.6	1019.6
30°	11226.0	10740.3	9250.6	7473.6	5813.2	4132.4	2463.5	1293.7	815.2	686.5	660.1
32.5°	12540.1	11886.1	9812.1	7610.6	5595.6	3528.8	1677.2	794.7	515.8	438.8	434.0
35°	13925.2	13092.0	10505.8	7684.0	5202.4	2725.6	959.4	464.1	322.2	313.8	313.8
37.5°	15401.6	14398.9	11258.5	7694.8	4606.1	1791.4	555.5	277.7	247.7	284.9	299.4
40°	16753.0	15582.0	12020.7	7593.8	3847.4	1024.4	306.6	211.6	222.4	263.3	276.5
42.5°	18046.7	16726.6	12768.6	7354.6	2759.3	562.7	216.4	185.2	197.2	218.8	223.6
45°	19205.8	17755.8	13334.9	6914.5	1710.9	316.2	196.0	162.3	163.5	179.1	181.5
47.5°	20327.5	18715.2	13693.1	6238.8	884.9	260.9	179.1	146.7	143.1	158.7	163.5
50°	21392.8	19609.7	13904.8	5315.4	455.7	241.7	169.5	134.7	135.9	165.9	168.3
52.5°	22424.4	20463.4	13957.7	3998.9	315.0	217.6	155.1	126.2	131.1	171.9	177.9
55°	23534.1	21357.9	13839.8	2398.6	297.0	199.6	140.7	114.2	123.8	139.5	141.9
57.5°	24550.0	22245.2	13402.2	1017.2	281.3	182.8	127.4	104.6	99.8	113.0	117.8
60°	25673.0	23089.2	12358.6	479.7	262.1	163.5	114.2	92.6	85.4	93.8	98.6
62.5°	27242.0	23722.8	10579.2	360.7	246.5	151.5	102.2	84.2	76.9	81.8	86.6
65°	28092.1	23784.2	8262.3	315.0	234.5	141.9	93.8	79.4	68.5	70.9	75.7
67.5°	28419.1	22575.8	5991.1	274.1	217.6	132.3	86.6	74.5	63.7	61.3	63.7
70°	27567.8	20248.2	3481.9	252.5	197.2	122.6	81.8	72.1	58.9	51.7	51.7
72.5°	25086.3	17054.8	1442.8	224.8	175.5	109.4	76.9	74.5	56.5	40.9	40.9
75°	21606.8	13289.2	430.4	186.4	150.3	99.8	76.9	76.9	55.3	31.3	31.3
77.5°	17157.0	8285.1	256.1	145.5	119.0	89.0	75.7	73.3	42.1	24.0	22.8
80°	9752.0	2939.7	186.4	108.2	91.4	73.3	67.3	60.1	31.3	20.4	20.4
82.5°	3896.7	666.1	132.3	76.9	74.5	56.5	44.5	34.9	25.2	18.0	18.0
85°	1022.0	210.4	79.4	50.5	45.7	42.1	15.6	14.4	20.4	16.8	16.8
87.5°	168.3	84.2	42.1	38.5	28.9	20.4	7.2	7.2	12.0	14.4	15.6
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)