

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: P622531

Luminaire Tested: **PRV-M-C275-D-U-T2-BZ-7050-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)
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-T2-BZ-7050-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75036 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

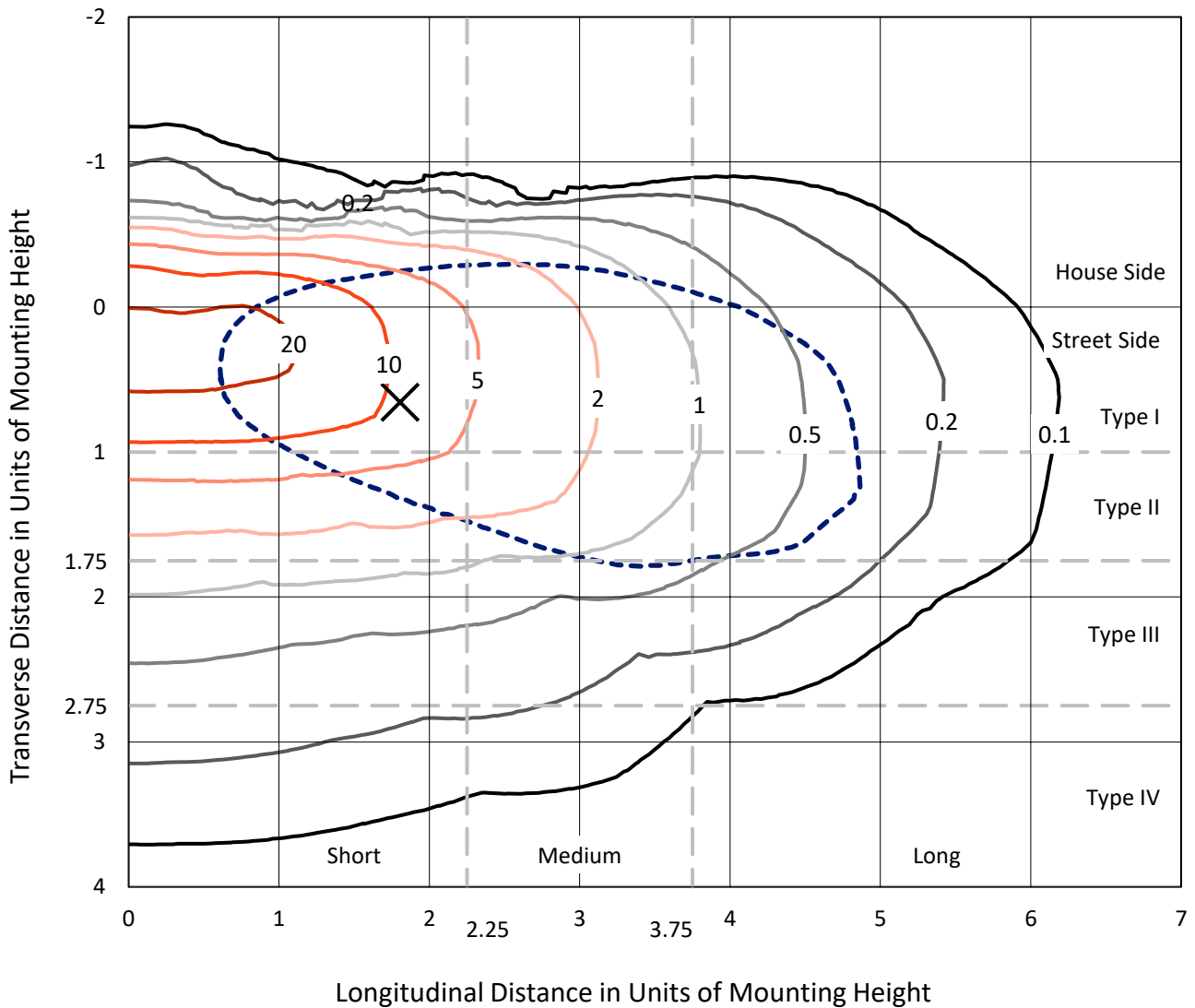
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

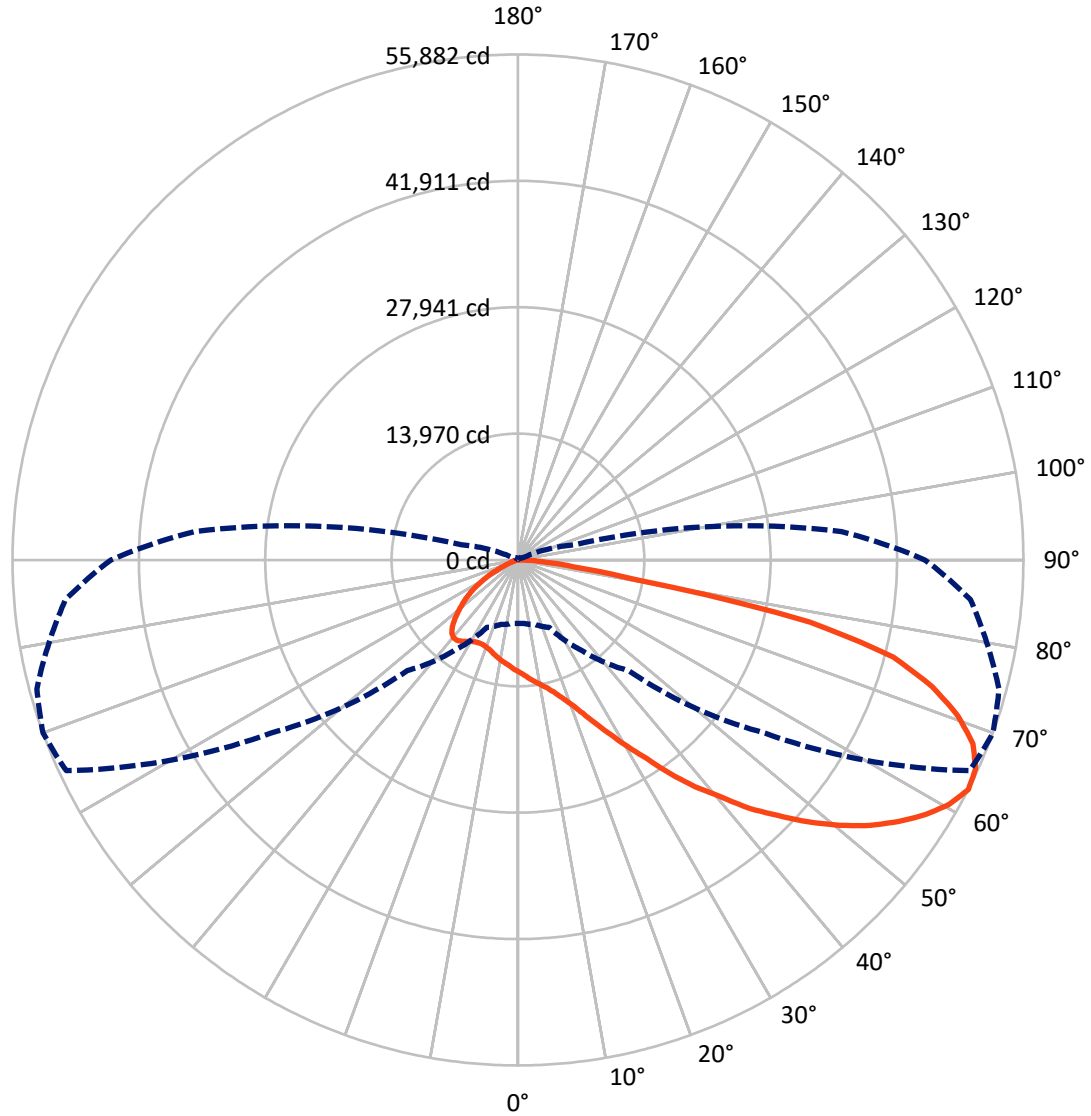
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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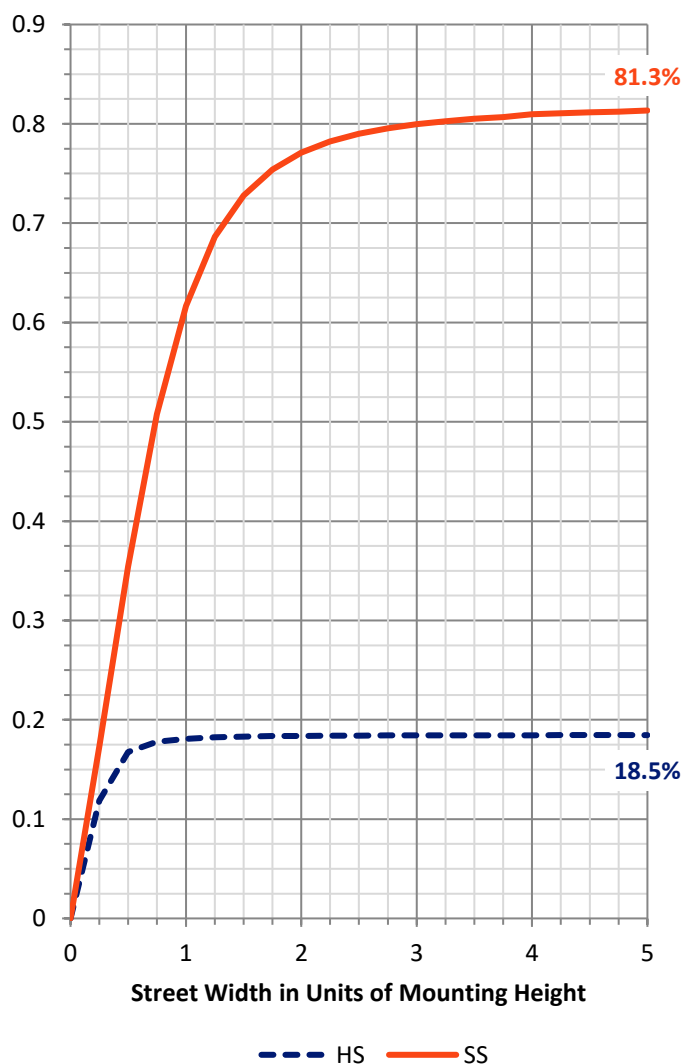
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14013.8	0.0	14013.8
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	61022.2	0.0	61022.2
	% Fixture	81.3	0.0	81.3
Total	Lumens	75036.0	0.0	75036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1187.6	1.6
10°-20°	3599.5	4.8
20°-30°	6222.6	8.3
30°-40°	9415.9	12.5
40°-50°	12822.2	17.1
50°-60°	15139.7	20.2
60°-70°	15310.4	20.4
70°-80°	10061.2	13.4
80°-90°	1276.8	1.7
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°	75036.0	100.0
0°-180°	75036.0	100.0

Coefficient of Utilization



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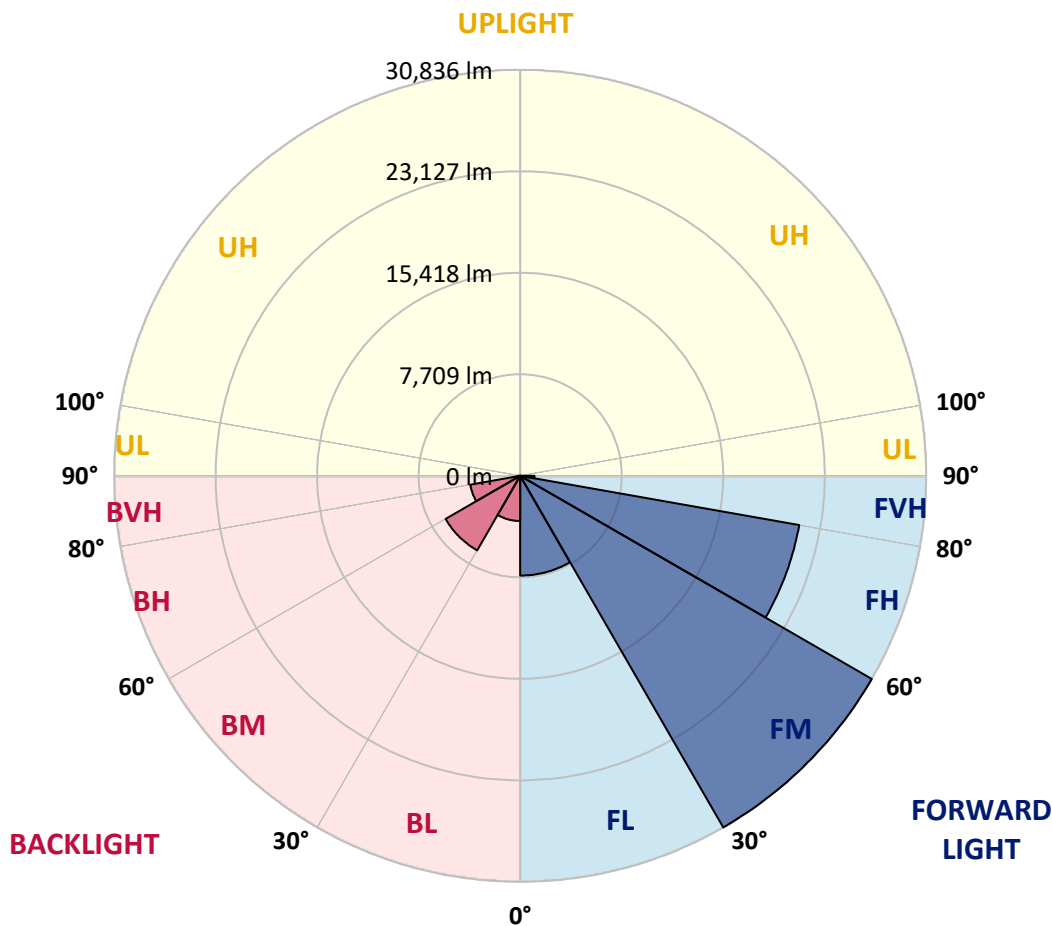
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7574.4	10.1			
FM (30°-60°)	30836.1	41.1			
FH (60°-80°)	21521.7	28.7			G5
FVH (80°-90°)	1090.0	1.5			G5
BL (0°-30°)	3435.4	4.6	B4/5000		
BM (30°-60°)	6541.7	8.7	B4/8500		
BH (60°-80°)	3849.9	5.1	B4/5000		G4/5000
BVH (80°-90°)	186.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9
2.5°	13275.8	13271.0	13304.6	13277.4	13171.5	13011.1	12953.3	12821.7	12720.7	12646.9	12516.9
5°	14249.6	14251.2	14257.6	14138.9	13972.0	13763.5	13558.1	13319.1	13150.6	12970.9	12664.5
7.5°	15114.3	15130.4	15138.4	15030.9	14801.5	14495.1	14172.6	13838.9	13583.8	13359.2	12861.9
10°	15849.1	15889.2	15873.2	15804.2	15545.9	15263.5	14848.0	14361.9	14025.0	13723.4	13052.8
12.5°	16595.1	16612.8	16571.0	16418.6	16242.2	15942.2	15512.2	14965.1	14543.2	14185.4	13307.9
15°	17354.0	17355.6	17286.6	17131.0	16879.1	16640.0	16267.8	15682.3	15217.0	14775.8	13681.7
17.5°	17968.4	18026.2	17929.9	17817.6	17633.1	17352.4	17106.9	16551.8	16067.3	15561.9	14222.3
20°	18528.3	18576.5	18582.9	18475.4	18406.4	18194.6	18002.1	17577.0	17071.6	16514.9	14944.3
22.5°	18982.3	19040.1	19112.3	19202.1	19309.6	19195.7	19160.4	18852.4	18417.6	17801.6	15963.0
25°	19300.0	19354.5	19640.1	19951.4	20184.0	20346.0	20519.3	20440.7	20055.6	19365.8	17297.8
27.5°	19438.0	19516.6	19924.1	20519.3	21130.5	21528.4	22043.4	22221.5	21868.5	21329.5	18913.4
30°	19482.9	19575.9	20066.9	20861.0	21950.3	22810.3	23549.9	24127.4	23959.0	23402.3	20861.0
32.5°	19308.0	19372.2	19925.7	21039.1	22577.6	24100.1	25078.8	26182.5	26164.9	25900.2	23095.8
35°	18719.2	18825.1	19529.4	21013.4	23111.9	25263.3	26596.5	28427.0	29015.8	28746.3	25828.0
37.5°	17954.0	18056.7	18910.1	20700.6	23431.1	26256.3	28284.2	31013.2	31781.6	31395.0	28237.7
40°	17052.3	17185.5	18133.7	20132.6	23517.8	27044.1	29795.5	33520.7	34334.1	34117.5	30665.0
42.5°	15971.0	16128.3	17203.2	19441.2	23347.7	27655.3	31354.9	36524.0	37534.7	37250.8	33058.7
45°	14918.6	14969.9	15969.4	18286.1	22898.5	28138.2	32699.3	38946.5	40305.4	39990.9	35585.5
47.5°	13835.7	13962.4	14913.8	17017.0	21863.7	28298.6	33968.3	41768.5	43265.4	42886.8	38317.6
50°	11458.1	11607.3	13625.5	15805.8	20480.8	27971.4	35287.1	44582.5	46106.6	45407.1	40698.5
52.5°	9305.1	9401.3	10787.5	14629.8	18801.1	27119.5	36458.2	47396.5	48758.6	47996.5	42915.6
55°	8549.4	8631.3	9220.0	12698.2	17257.7	25518.4	37100.0	50265.0	51036.7	50138.3	45055.8
57.5°	8071.3	8151.6	8494.9	10282.1	15643.7	22957.9	37249.2	52371.5	53123.9	52042.6	46883.1
60°	7436.0	7524.3	8034.4	9011.5	13904.7	19893.6	36301.0	54295.1	54806.9	53738.4	48675.1
62.5°	6998.1	7035.0	7384.7	8233.4	12135.1	17272.1	33386.0	55105.3	55881.8	55060.4	50213.7
65°	6473.4	6566.5	6860.1	7631.8	10781.0	15578.0	30291.2	54195.6	55609.0	55389.2	51056.0
67.5°	5900.7	5958.5	6255.3	6885.8	9374.1	14248.0	27145.1	52445.3	54237.3	54433.1	50518.5
70°	5275.0	5275.0	5538.1	6065.9	7734.4	12561.8	22338.6	49807.8	51615.9	51789.1	47804.0
72.5°	4464.8	4479.3	4777.7	5236.5	6417.3	10612.6	17379.6	45397.5	47881.0	48490.6	43358.4
75°	3518.3	3579.2	3917.8	4444.0	5234.9	8517.3	12568.3	36195.1	42843.4	44078.8	37749.7
77.5°	762.1	1004.3	2371.2	3077.1	4054.1	6649.9	7744.1	21289.4	33005.7	35741.1	29773.0
80°	338.5	385.0	1177.6	1974.9	2355.1	4283.5	4163.2	9582.6	13187.5	20119.8	19460.4
82.5°	166.8	227.8	500.5	1240.1	1410.2	1508.1	1597.9	4553.1	6160.6	7444.1	8324.8
85°	46.5	77.0	258.3	495.7	590.4	365.8	593.6	2140.2	3130.0	3587.3	3457.3
87.5°	0.0	0.0	73.8	154.0	136.4	51.3	158.8	681.8	1025.2	1220.9	1054.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9	12370.9
2.5°	12444.7	12327.6	12183.2	11969.9	11806.2	11668.2	11583.2	11426.0	11385.9	11376.3	11332.9
5°	12494.5	12277.9	11924.9	11552.7	11251.1	10960.7	10773.0	10619.0	10492.3	10519.5	10407.2
7.5°	12605.2	12297.1	11751.7	11214.2	10718.5	10343.1	10044.7	9765.5	9642.0	9642.0	9565.0
10°	12699.8	12300.3	11599.3	10893.4	10243.6	9711.0	9327.5	9069.2	8868.7	8806.1	8780.5
12.5°	12833.0	12316.4	11409.9	10554.8	9807.2	9086.9	8639.3	8321.6	8159.6	8100.2	7954.2
15°	13072.0	12425.5	11238.3	10176.2	9285.8	8502.9	7939.8	7626.9	7440.8	7375.1	7347.8
17.5°	13461.9	12643.7	11119.6	9760.7	8772.4	7927.0	7318.9	6943.5	6751.0	6597.0	6579.3
20°	13984.9	12993.4	11082.7	9431.8	8225.4	7355.8	6630.7	6178.2	5815.7	5594.3	5597.5
22.5°	14767.8	13505.2	11150.0	9135.0	7753.7	6776.7	5936.0	5249.3	4641.3	4375.0	4315.6
25°	15868.4	14278.5	11328.1	8892.8	7280.4	6179.9	4987.8	3975.5	3389.9	3118.8	3059.4
27.5°	17278.6	15367.8	11658.6	8687.4	6832.8	5344.0	3835.9	2852.5	2321.5	2080.8	1981.3
30°	18802.7	16729.9	12183.2	8519.0	6264.9	4188.9	2730.6	1962.1	1471.2	1315.5	1315.5
32.5°	20995.8	18372.7	12853.8	8326.4	5520.5	3009.7	1819.3	1267.4	932.1	829.4	829.4
35°	23338.1	20296.3	13699.3	8105.0	4463.2	2058.3	1132.7	747.6	616.1	617.7	616.1
37.5°	25367.5	21993.7	14514.3	7768.1	3255.2	1317.1	670.6	542.3	524.6	510.2	524.6
40°	27602.4	23771.2	15106.3	7217.8	2137.0	762.1	478.1	487.7	468.5	434.8	423.5
42.5°	29591.7	25378.8	15507.4	6341.9	1346.0	474.9	418.7	438.0	434.8	388.2	359.4
45°	31704.6	27103.4	15688.7	5019.9	739.6	430.0	369.0	409.1	407.5	354.6	325.7
47.5°	33782.2	28698.1	15611.7	3417.2	498.9	393.1	340.1	364.2	375.4	324.1	293.6
50°	36474.3	30140.4	15180.1	1965.3	455.6	367.4	316.1	308.0	332.1	279.2	261.5
52.5°	38574.3	31595.5	14304.1	1054.0	431.6	349.7	292.0	258.3	279.2	229.4	242.3
55°	40464.2	32835.7	12772.0	726.8	426.7	332.1	280.8	227.8	232.6	198.9	195.7
57.5°	42344.5	34013.2	10829.2	640.1	433.2	333.7	255.1	198.9	181.3	162.0	134.8
60°	43854.2	35226.1	8658.5	587.2	436.4	330.5	223.0	173.3	131.6	110.7	105.9
62.5°	45012.5	35887.1	6497.5	547.1	425.1	303.2	202.1	144.4	105.9	80.2	77.0
65°	45561.2	35811.7	4378.2	505.4	420.3	290.4	186.1	121.9	83.4	62.6	59.4
67.5°	44675.6	34035.7	2780.3	463.6	412.3	277.5	174.9	105.9	72.2	51.3	48.1
70°	41704.4	31062.9	1652.5	415.5	391.5	255.1	168.5	94.7	62.6	40.1	33.7
72.5°	36939.5	26869.2	1042.8	348.1	354.6	215.0	125.1	80.2	52.9	24.1	20.9
75°	31013.2	21581.3	754.0	258.3	288.8	170.1	99.5	69.0	43.3	14.4	12.8
77.5°	24084.1	14532.0	577.6	170.1	192.5	120.3	70.6	52.9	32.1	8.0	6.4
80°	14687.6	8382.6	454.0	96.3	118.7	70.6	32.1	33.7	14.4	1.6	0.0
82.5°	7086.3	3835.9	263.1	51.3	40.1	36.9	8.0	0.0	1.6	0.0	0.0
85°	2478.7	1155.1	49.7	30.5	12.8	11.2	0.0	0.0	0.0	0.0	0.0
87.5°	664.2	205.4	14.4	12.8	1.6	0.0	0.0	0.0	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	0.0

(END OF REPORT)