

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: P622553

Luminaire Tested: **PRV-M-C275-D-U-T4-BZ-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-6)
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-T4-BZ-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72830 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

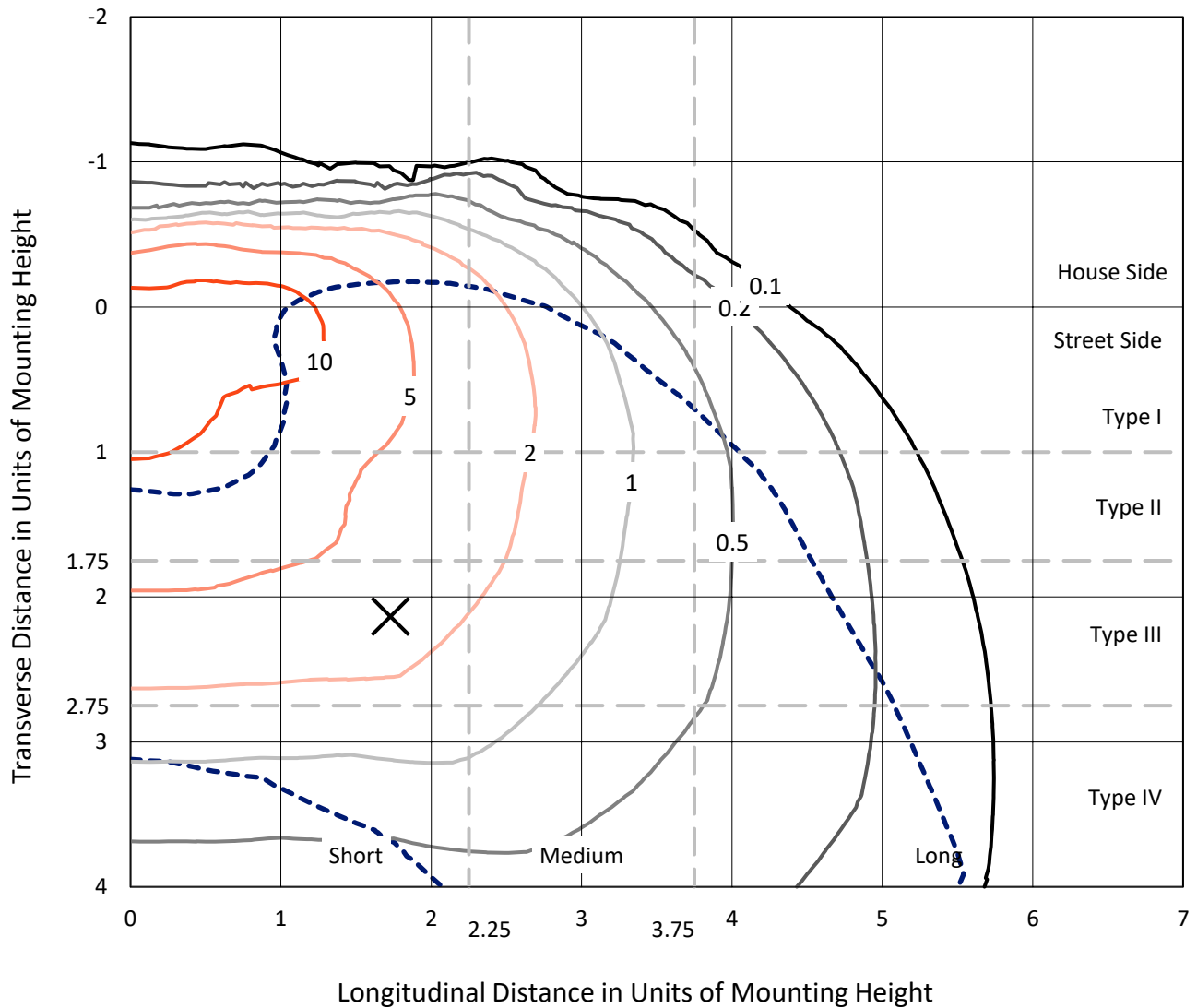
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

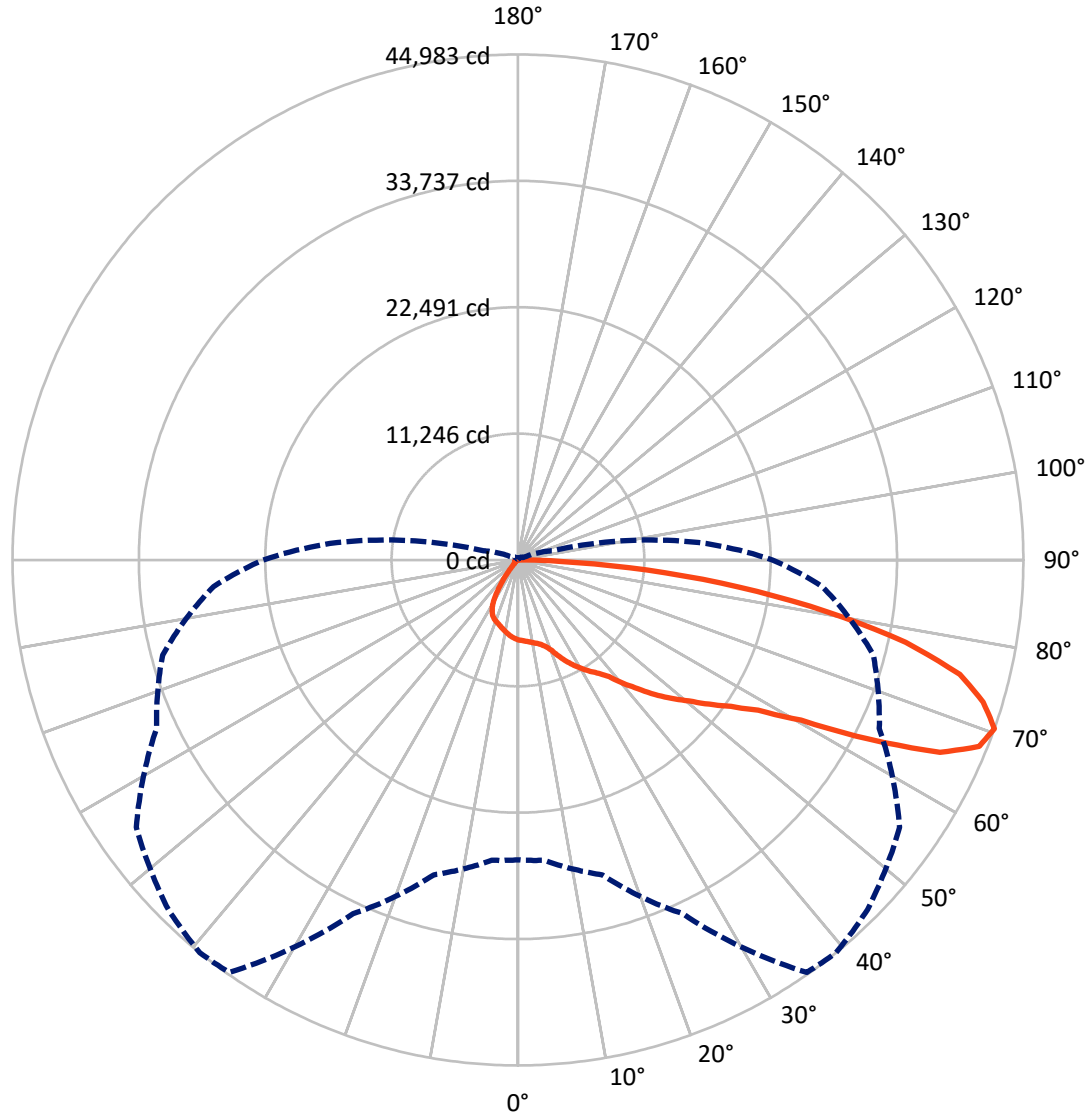
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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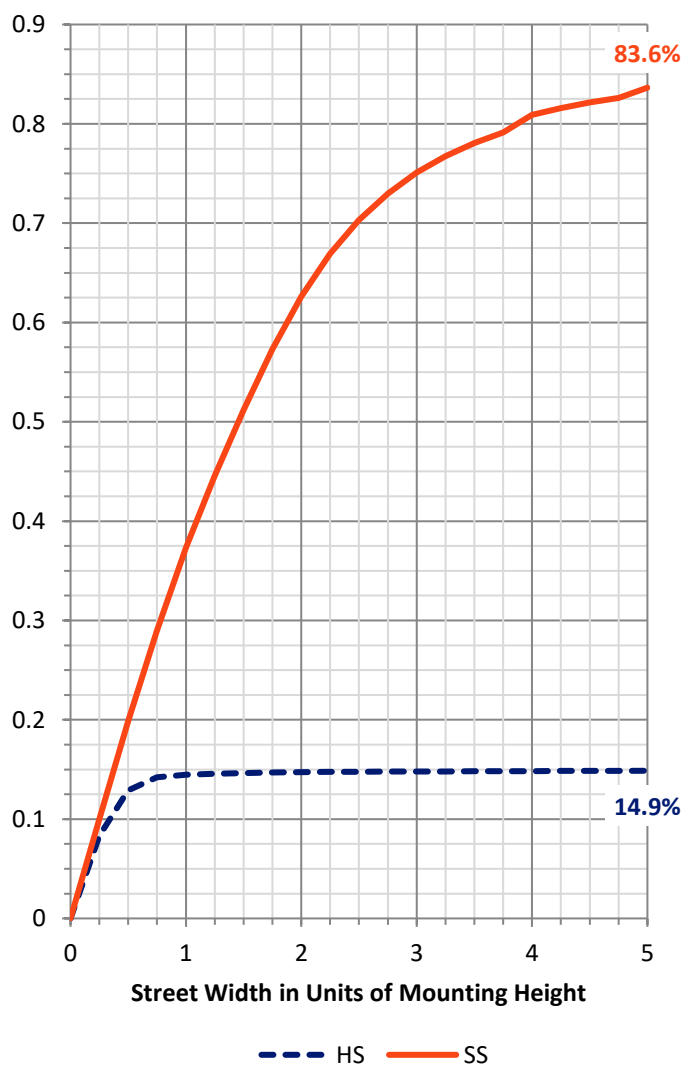
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10951.2	0.0	10951.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	61878.8	0.0	61878.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	72830.0	0.0	72830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.2	0.9
10°-20°	2041.0	2.8
20°-30°	3764.0	5.2
30°-40°	5953.3	8.2
40°-50°	9332.6	12.8
50°-60°	13778.5	18.9
60°-70°	18893.5	25.9
70°-80°	15117.2	20.8
80°-90°	3273.8	4.5
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°	72830.0	100.0
0°-180°	72830.0	100.0

Coefficient of Utilization



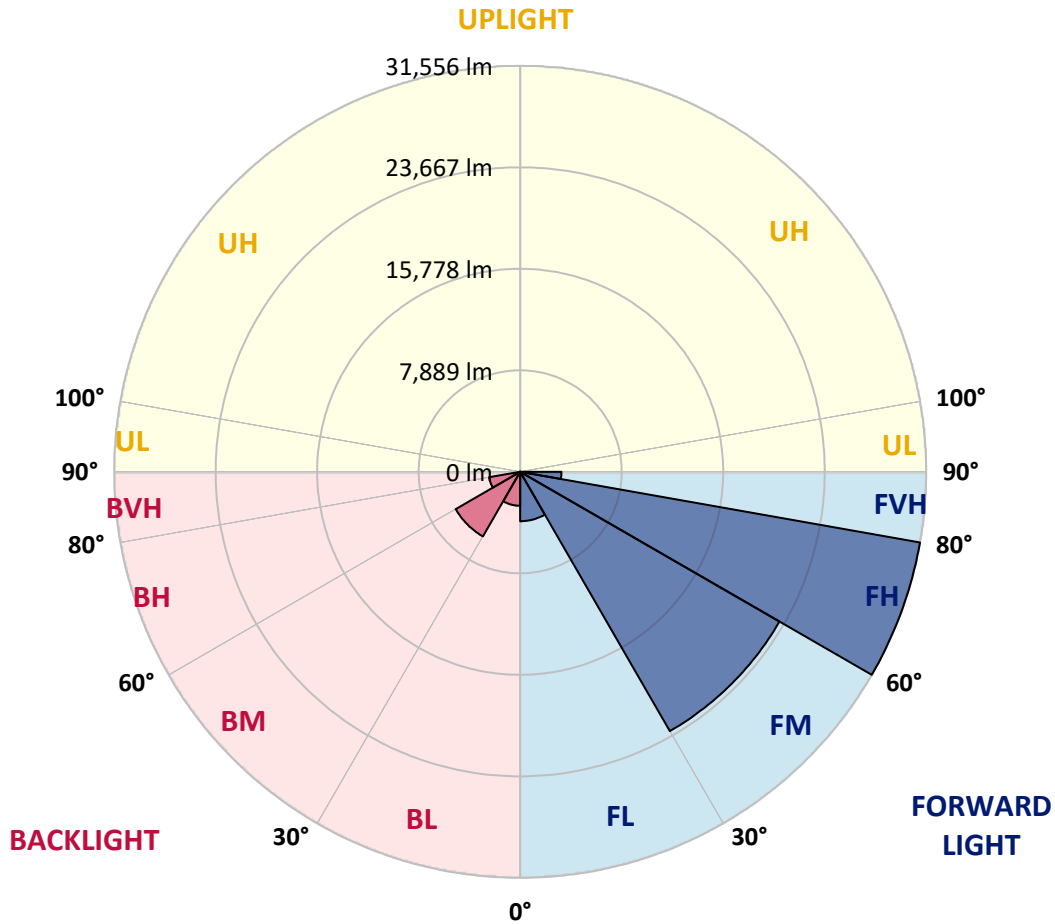
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3841.1	5.3			
FM (30°-60°)	23272.3	32.0			
FH (60°-80°)	31556.0	43.3			G5
FVH (80°-90°)	3209.4	4.4			G5
BL (0°-30°)	2640.0	3.6	B4/5000		
BM (30°-60°)	5792.1	8.0	B4/8500		
BH (60°-80°)	2454.7	3.4	B3/2500		G3/2500
BVH (80°-90°)	64.4	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4
2.5°	7232.9	7221.9	7256.6	7215.6	7204.6	7168.4	7171.5	7188.8	7203.0	7173.1	7169.9
5°	7319.6	7316.4	7340.1	7300.7	7292.8	7262.9	7251.9	7269.2	7273.9	7228.2	7207.7
7.5°	7403.1	7399.9	7433.0	7387.3	7396.8	7360.6	7346.4	7360.6	7366.9	7311.7	7289.7
10°	7458.2	7455.1	7491.3	7469.3	7508.7	7486.6	7481.9	7505.5	7524.4	7444.1	7409.4
12.5°	7535.4	7533.9	7579.5	7570.1	7630.0	7617.4	7639.4	7686.7	7716.6	7642.6	7582.7
15°	7659.9	7674.1	7716.6	7724.5	7808.0	7815.9	7850.5	7927.7	7975.0	7899.4	7844.2
17.5°	8011.2	7986.0	8045.9	8050.6	8086.8	8110.5	8137.3	8260.1	8329.5	8285.4	8246.0
20°	8688.7	8683.9	8682.4	8647.7	8628.8	8594.1	8603.6	8669.8	8775.3	8781.6	8791.1
22.5°	9539.4	9575.7	9559.9	9454.3	9329.9	9295.2	9251.1	9241.7	9309.4	9348.8	9403.9
25°	10371.3	10346.1	10380.7	10161.7	10026.2	9979.0	9956.9	9985.3	10016.8	10062.5	10150.7
27.5°	10987.3	10957.3	10929.0	10780.9	10664.3	10613.9	10631.2	10736.8	10854.9	10880.1	11021.9
30°	11518.2	11463.1	11428.4	11352.8	11272.4	11212.6	11229.9	11475.7	11782.9	11891.6	12150.0
32.5°	12447.7	12416.2	12236.6	11850.6	11820.7	11811.2	11828.6	12231.9	12709.2	13019.6	13435.5
35°	13519.0	13486.0	13314.2	12929.8	12438.3	12383.1	12458.8	12914.1	13697.1	14494.2	15155.9
37.5°	14686.5	14702.2	14551.0	14067.3	13462.3	13177.2	13092.1	13695.5	14702.2	16372.2	17026.0
40°	16266.6	16184.7	15850.7	15184.3	14694.3	14428.1	14005.9	14502.1	15942.1	18380.9	19179.7
42.5°	17493.9	17497.1	17130.0	16469.9	15812.9	15660.1	15379.7	15564.0	17434.1	20674.8	21139.5
45°	18473.9	18560.5	18338.4	17712.9	17268.6	17071.7	16849.6	17243.4	19220.6	22930.8	22976.5
47.5°	19381.3	19441.2	19223.8	18818.9	18506.9	18393.5	18491.2	19263.2	21112.8	24931.7	24528.4
50°	20846.5	20767.7	19995.8	19705.9	19619.2	19712.2	20107.6	21223.0	23691.8	26686.7	26029.8
52.5°	23372.0	22885.2	21501.9	21029.3	21081.3	21325.4	21766.6	23042.7	26204.7	28325.2	27189.3
55°	26844.3	26147.9	24413.4	23011.2	22718.2	22993.9	23494.9	24794.6	28470.2	29721.1	28129.9
57.5°	29205.9	29068.8	28311.0	26628.5	24892.3	25216.8	25569.7	26715.1	30237.8	31069.7	28931.8
60°	31449.4	31551.8	32131.5	31260.3	29491.1	28955.4	28051.1	28711.2	31912.6	32193.0	29464.3
62.5°	33220.2	33388.8	34992.6	35057.2	36078.1	35153.3	32676.7	30964.1	33414.0	32933.5	29645.5
65°	33120.9	33204.4	35573.9	37239.2	40935.2	41273.9	39615.0	34064.6	34943.7	33303.7	29462.7
67.5°	30318.2	30615.9	32775.9	36998.1	43802.6	44275.2	43422.9	39219.5	35818.1	33254.8	28738.0
70°	26694.6	26825.4	29005.8	34737.4	44806.1	44982.6	44002.6	41463.0	35482.5	32739.7	27195.6
72.5°	21914.7	22214.0	24326.7	30215.8	43400.8	43293.7	42736.0	40987.2	34838.2	31324.9	23817.8
75°	17029.2	17229.2	19170.2	24684.3	39715.8	40609.1	40196.3	39385.0	32901.9	27698.2	17733.4
77.5°	11537.1	12079.1	13952.3	19061.5	33004.3	35285.6	36561.7	35912.6	28326.8	20982.0	10261.0
80°	6546.0	6380.6	8791.1	13300.0	25319.2	27929.8	29729.0	28821.5	20186.4	11226.7	2705.1
82.5°	2085.9	2319.1	4135.6	8067.9	17875.2	19883.9	21207.3	18855.1	10202.7	2925.6	556.1
85°	948.4	1020.9	1709.4	3941.8	10468.9	11522.9	11606.4	8318.4	1641.6	581.3	346.6
87.5°	397.0	397.0	809.8	1767.7	4515.3	3664.5	2315.9	2375.8	332.4	263.1	181.2
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°	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4	7116.4
2.5°	7138.4	7135.3	7117.9	7062.8	7017.1	7004.5	7004.5	6973.0	6979.3	6984.0	6954.1
5°	7169.9	7160.5	7105.3	7014.0	6924.2	6867.4	6847.0	6793.4	6777.6	6754.0	6733.5
7.5°	7229.8	7203.0	7110.1	6977.7	6839.1	6738.2	6662.6	6563.4	6511.4	6494.1	6449.9
10°	7351.1	7303.8	7169.9	6976.1	6768.2	6582.3	6434.2	6289.2	6201.0	6133.3	6103.3
12.5°	7518.1	7459.8	7289.7	7028.1	6722.5	6445.2	6204.2	5999.4	5863.9	5785.1	5764.6
15°	7770.2	7704.0	7483.4	7138.4	6714.6	6320.8	5977.3	5662.2	5470.0	5325.1	5296.7
17.5°	8170.3	8118.4	7819.0	7341.7	6793.4	6251.4	5741.0	5271.5	4929.6	4770.5	4705.9
20°	8721.8	8654.0	8302.7	7655.2	6957.2	6221.5	5512.5	4857.1	4357.7	4025.3	3940.2
22.5°	9374.0	9273.2	8814.7	7995.5	7108.5	6175.8	5295.1	4444.4	3735.4	3201.3	3141.5
25°	10136.5	10021.5	9282.6	8266.4	7169.9	6059.2	5005.2	3971.7	2969.7	2402.6	2371.1
27.5°	10982.5	10725.7	9747.4	8476.0	7122.7	5824.5	4579.9	3256.5	2142.6	1704.6	1630.6
30°	11975.1	11538.7	10186.9	8603.6	6982.4	5455.8	3971.7	2306.5	1421.1	1099.7	1090.2
32.5°	13043.2	12438.3	10626.5	8628.8	6719.3	4946.9	2996.5	1458.9	809.8	633.3	641.2
35°	14563.6	13632.5	11105.4	8565.8	6297.1	4197.0	1975.6	831.8	449.0	398.6	378.1
37.5°	16257.2	15104.0	11628.5	8332.6	5668.5	3162.0	1180.0	404.9	330.8	316.7	311.9
40°	18242.3	16729.8	12236.6	7982.9	4858.7	2171.0	554.6	318.2	302.5	294.6	294.6
42.5°	20084.0	18398.2	13016.5	7516.5	3919.7	1265.1	368.7	305.6	272.6	269.4	271.0
45°	21749.2	19847.7	13725.4	6971.4	2947.7	638.1	356.1	272.6	242.6	242.6	242.6
47.5°	23228.6	21048.2	14237.4	6284.5	2019.7	422.2	356.1	248.9	220.6	219.0	220.6
50°	24466.9	22058.0	14566.7	5533.0	1189.5	395.4	326.1	236.3	200.1	204.8	204.8
52.5°	25423.2	22781.2	14609.3	4603.5	652.2	386.0	310.4	219.0	182.8	209.5	215.8
55°	26190.5	23255.4	14363.5	3535.3	477.4	362.4	304.1	203.2	181.2	237.9	248.9
57.5°	26674.1	23468.1	13774.3	2399.4	442.7	332.4	283.6	185.9	171.7	211.1	219.0
60°	26919.9	23394.0	12887.3	1503.0	433.3	324.5	261.5	178.0	152.8	152.8	154.4
62.5°	26866.3	22984.4	11671.0	901.2	404.9	311.9	245.8	171.7	127.6	104.0	104.0
65°	26258.2	22072.2	9706.4	645.9	384.4	310.4	234.7	162.3	108.7	80.3	75.6
67.5°	25018.3	20301.4	6780.8	564.0	393.9	310.4	234.7	156.0	102.4	64.6	58.3
70°	22672.5	16803.9	3168.3	516.8	408.0	323.0	239.5	154.4	91.4	50.4	45.7
72.5°	18319.5	11637.9	772.0	419.1	411.2	323.0	258.4	152.8	81.9	39.4	34.7
75°	11779.7	5490.5	549.8	321.4	362.4	310.4	261.5	182.8	86.7	25.2	22.1
77.5°	4709.1	1055.6	486.8	225.3	340.3	345.0	283.6	193.8	107.1	12.6	6.3
80°	811.4	491.5	455.3	151.2	280.4	352.9	223.7	160.7	102.4	4.7	0.0
82.5°	458.5	417.5	386.0	93.0	214.3	237.9	137.1	115.0	100.8	4.7	0.0
85°	345.0	346.6	168.6	70.9	102.4	148.1	53.6	33.1	91.4	3.2	0.0
87.5°	200.1	108.7	55.1	42.5	42.5	58.3	20.5	14.2	12.6	3.2	1.6
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)