

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: P622541

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622541
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-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K 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: 72121 lumens
Efficiency: N/A
Efficacy: 122.8 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

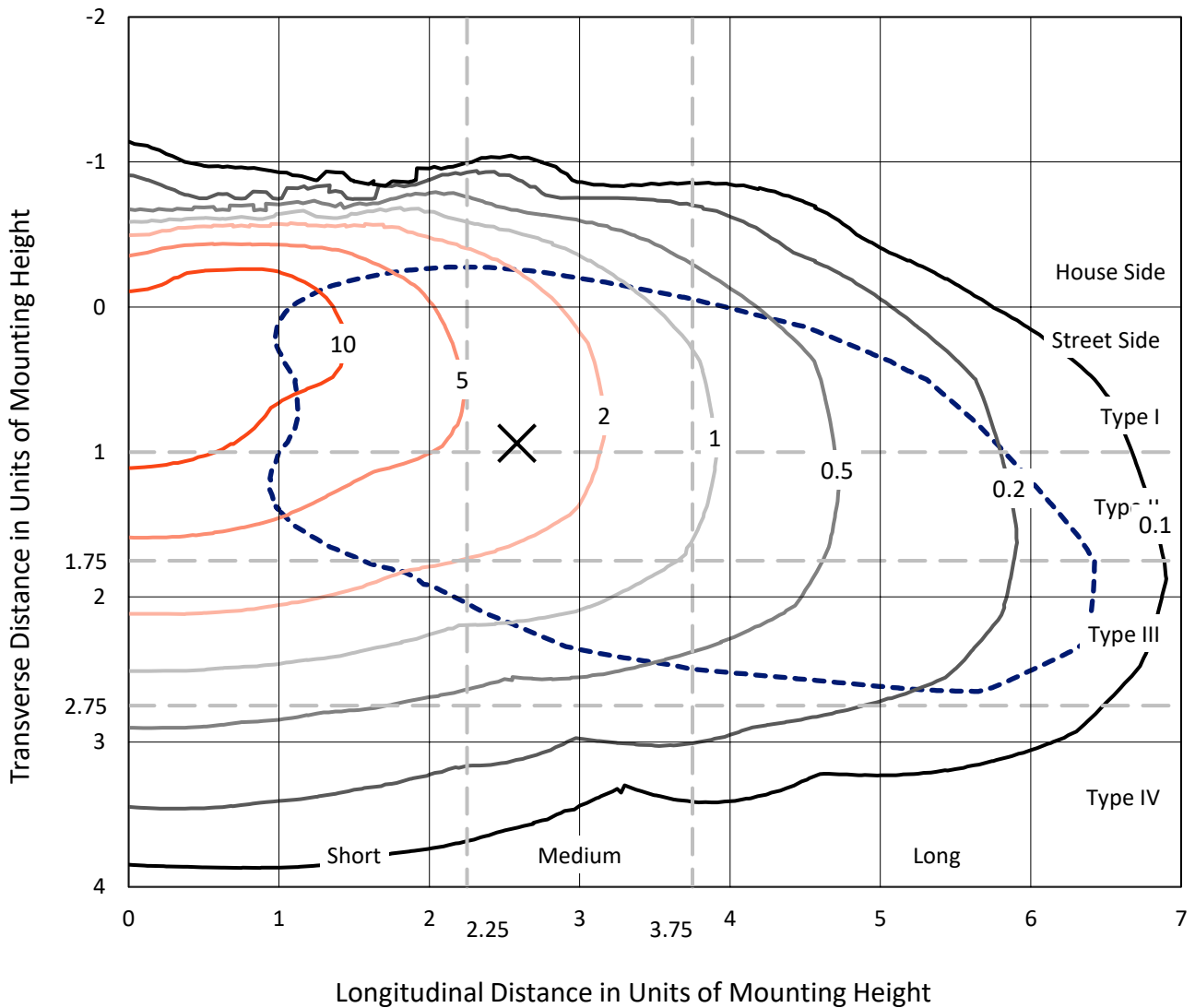
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

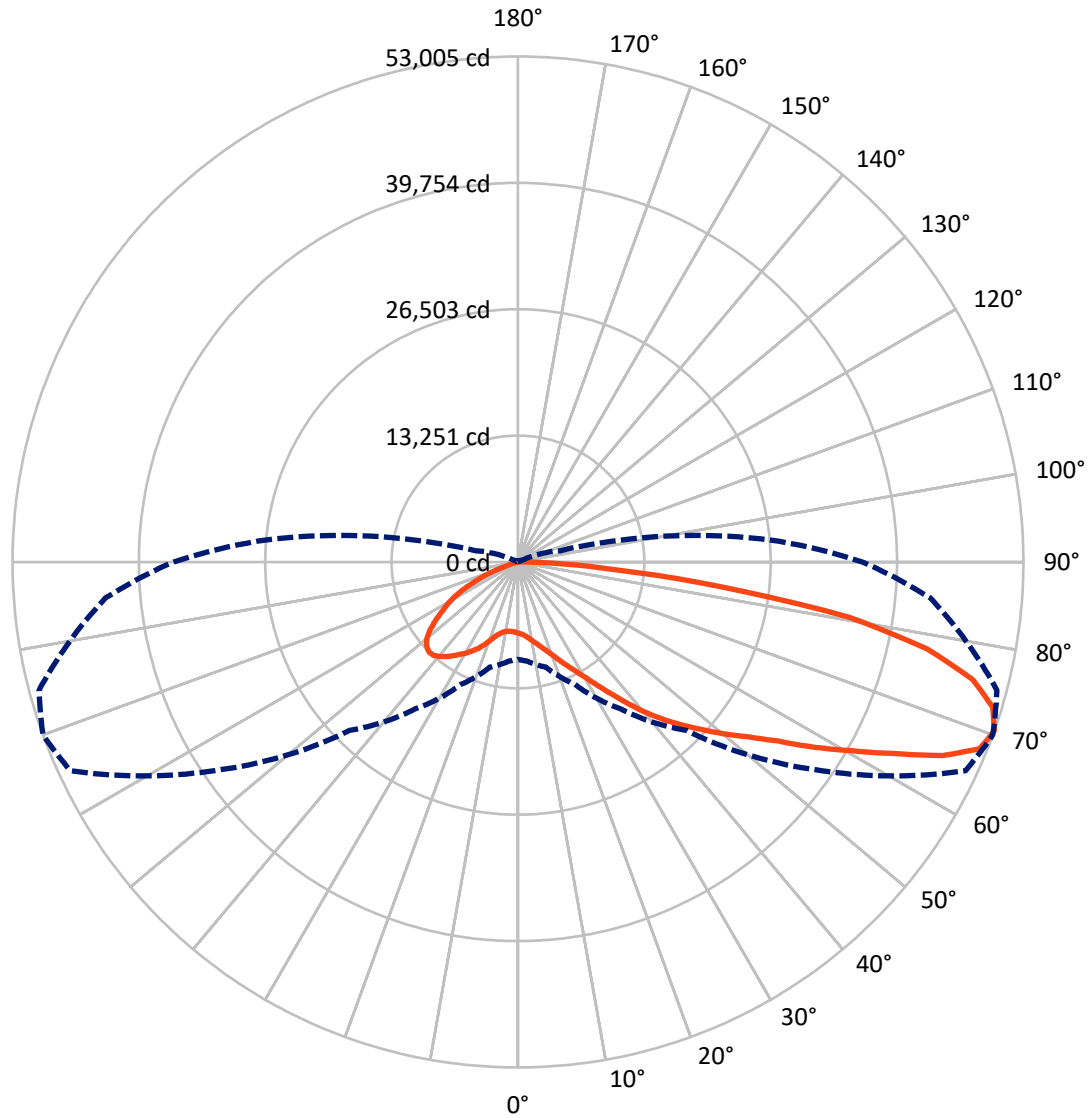
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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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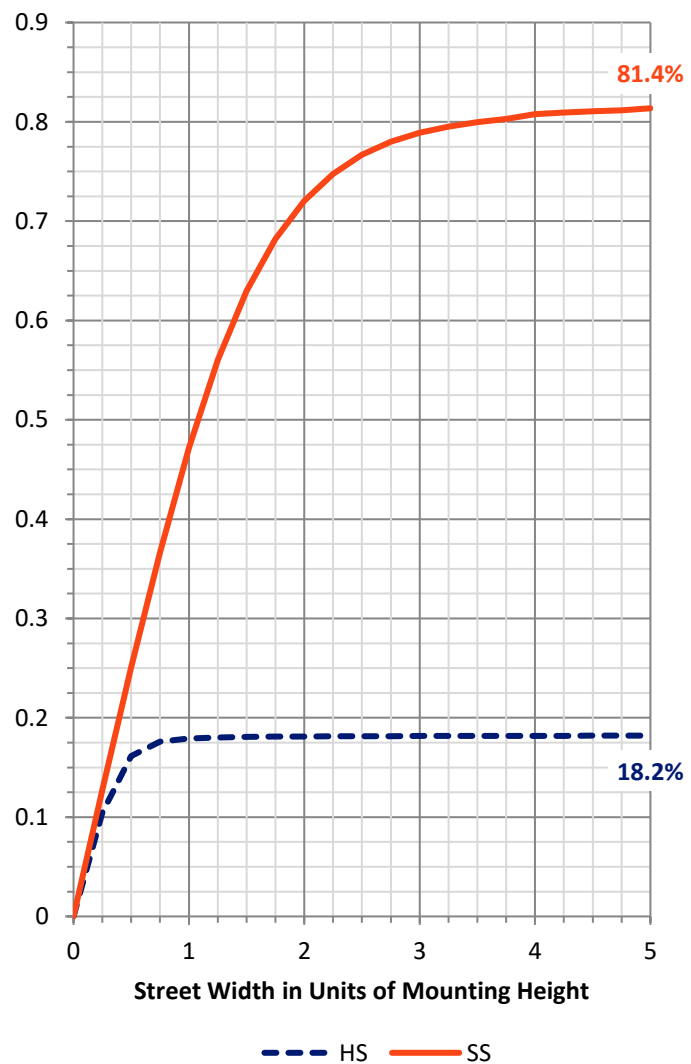
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13276.1	0.0	13276.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	58844.9	0.0	58844.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	72121.0	0.0	72121.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.1	1.0
10°-20°	2235.4	3.1
20°-30°	4118.5	5.7
30°-40°	6878.4	9.5
40°-50°	10731.3	14.9
50°-60°	14718.6	20.4
60°-70°	17468.7	24.2
70°-80°	12876.6	17.9
80°-90°	2376.5	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°	72121.0	100.0
0°-180°	72121.0	100.0



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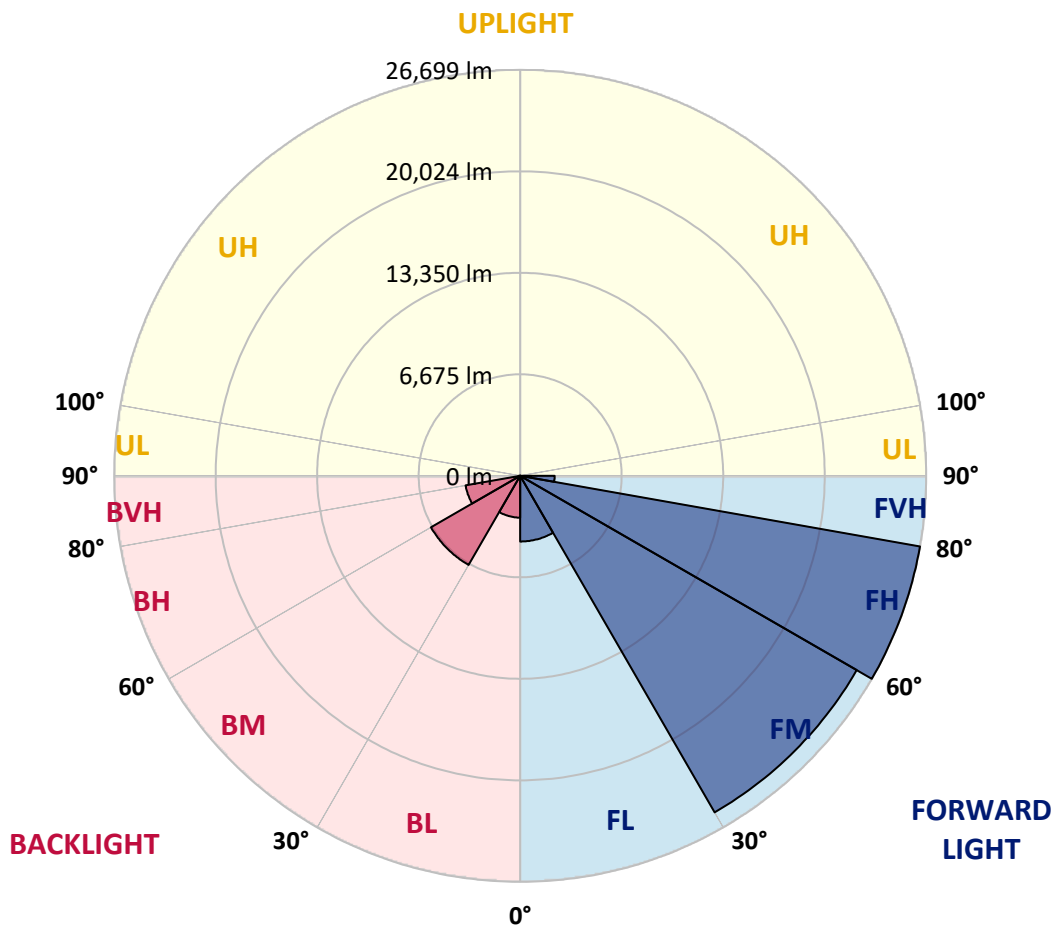
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4322.3	6.0			
FM (30°-60°)	25556.7	35.4			
FH (60°-80°)	26699.2	37.0			G5
FVH (80°-90°)	2266.7	3.1			G5
BL (0°-30°)	2748.8	3.8	B4/5000		
BM (30°-60°)	6771.5	9.4	B4/8500		
BH (60°-80°)	3646.0	5.1	B4/5000		G4/5000
BVH (80°-90°)	109.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8
2.5°	7784.4	7797.0	7826.9	7768.6	7768.6	7672.5	7666.2	7634.7	7579.6	7559.1	7530.7
5°	8131.0	8154.6	8157.8	8113.6	8080.6	7982.9	7921.4	7858.4	7779.6	7738.7	7650.5
7.5°	8398.8	8416.1	8452.4	8424.0	8405.1	8277.5	8244.4	8162.5	8053.8	7986.0	7844.2
10°	8583.1	8639.9	8669.8	8663.5	8702.9	8609.9	8598.9	8509.1	8400.4	8305.9	8134.1
12.5°	8724.9	8773.8	8836.8	8880.9	8954.9	8953.4	8950.2	8896.7	8800.6	8676.1	8477.6
15°	8830.5	8890.4	8994.3	9098.3	9225.9	9263.7	9372.4	9358.3	9262.2	9153.5	8903.0
17.5°	9071.5	9125.1	9208.6	9333.1	9506.4	9616.6	9797.8	9854.5	9808.8	9697.0	9418.1
20°	9426.0	9438.6	9520.5	9634.0	9826.2	10051.5	10372.9	10516.2	10421.7	10374.4	10109.8
22.5°	9845.1	9882.9	9893.9	9997.9	10187.0	10519.4	10960.5	11198.4	11214.2	11103.9	10910.1
25°	10324.0	10336.6	10314.6	10399.6	10669.1	11056.6	11579.7	11959.4	12057.0	12028.7	11972.0
27.5°	10829.8	10906.9	10908.5	10935.3	11184.2	11606.5	12274.5	12879.4	13007.0	13068.5	13320.6
30°	12080.7	12112.2	11983.0	11751.4	11825.4	12287.1	13068.5	13862.5	14086.2	14352.5	15086.7
32.5°	13671.9	13613.6	13424.5	13005.5	12698.3	13062.2	13906.6	14937.0	15483.7	16083.9	16844.9
35°	15217.4	15176.5	15026.8	14607.7	14078.4	13906.6	14798.3	16187.9	17085.9	18269.1	18905.6
37.5°	16665.3	16706.2	16594.4	16181.6	15576.6	15159.1	15787.7	17500.3	18904.0	20440.1	20977.3
40°	18081.6	18116.3	18078.5	17713.0	17363.2	16769.3	16931.5	18902.4	20807.2	22515.0	22962.4
42.5°	19198.6	19327.8	19468.0	19066.3	18900.9	18543.2	18132.0	20194.3	22663.1	24493.8	24821.5
45°	20139.2	20120.3	20279.4	20293.6	20361.3	20197.5	19671.3	21634.3	24467.0	26382.7	26459.9
47.5°	20819.8	20748.9	20903.3	21344.4	21768.2	21725.7	21454.7	23107.4	26326.0	28181.9	28082.7
50°	21177.4	21182.1	21542.9	22266.1	23110.5	23338.9	23261.8	25221.6	28407.2	30118.2	29747.9
52.5°	21457.8	21577.6	22166.8	23104.2	24473.3	24980.6	25105.0	27841.6	30496.3	32024.5	31321.8
55°	21583.9	21790.3	22456.7	23643.0	25453.2	26497.8	26987.7	30589.2	33139.9	34398.7	33006.0
57.5°	20920.6	21164.8	22176.3	23781.7	26125.9	27655.7	28935.0	33845.7	36662.7	37009.3	34983.2
60°	19362.5	19523.2	21139.6	23494.9	26280.3	28719.2	31175.3	37812.8	40172.8	40089.3	37025.0
62.5°	17834.3	17932.0	19411.3	22409.4	25848.7	29239.1	33458.2	42227.2	44221.7	43353.7	39025.9
65°	15745.2	15899.6	17563.3	20436.9	24489.0	28999.6	35882.8	46882.7	48945.0	48100.5	41204.7
67.5°	13251.2	13411.9	14815.7	17572.7	22275.5	27750.3	37233.0	50414.9	52217.2	51158.5	42717.2
70°	10223.2	10417.0	11422.1	14169.7	18826.8	24991.6	37937.2	51791.9	53005.0	51998.2	43415.1
72.5°	7106.9	7292.8	7908.8	9657.6	14354.1	20988.4	37296.0	51528.8	52055.0	51125.4	42016.1
75°	4567.3	4833.5	5329.8	6454.7	8461.8	15173.3	33410.9	48941.8	49242.8	47859.5	38405.1
77.5°	694.8	792.5	2906.7	3782.7	5336.1	7278.7	23685.6	43312.7	43845.2	42257.1	33347.9
80°	490.0	507.3	1254.1	2435.7	3221.8	4067.9	10984.1	31482.5	35282.6	33281.7	23504.4
82.5°	349.8	378.1	595.5	1592.8	1797.6	1559.7	3576.3	17848.5	21415.3	21306.6	12531.3
85°	220.6	244.2	362.4	548.3	970.5	916.9	1146.9	7344.8	9999.5	10035.7	4882.4
87.5°	116.6	127.6	211.1	323.0	456.9	510.5	560.9	2095.4	3525.9	3357.3	1085.5
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°	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8	7459.8
2.5°	7481.9	7458.3	7409.4	7325.9	7244.0	7187.3	7174.7	7092.7	7083.3	7091.2	7088.0
5°	7576.4	7519.7	7393.7	7226.7	7062.8	6928.9	6834.4	6697.3	6635.9	6613.8	6640.6
7.5°	7746.6	7648.9	7444.1	7187.3	6924.2	6694.2	6509.8	6330.2	6242.0	6175.8	6125.4
10°	7992.3	7858.4	7557.5	7199.9	6837.5	6522.4	6229.4	5974.2	5797.7	5698.5	5668.5
12.5°	8321.6	8138.9	7741.8	7288.1	6815.5	6380.6	5980.5	5621.3	5383.4	5247.9	5222.7
15°	8696.6	8517.0	8044.3	7489.8	6911.6	6353.9	5840.3	5381.8	4995.8	4802.0	4746.9
17.5°	9194.4	8994.3	8483.9	7841.1	7136.9	6423.2	5731.5	5082.5	4542.1	4280.5	4245.9
20°	9892.3	9679.7	9110.9	8307.4	7433.0	6492.5	5575.6	4735.8	4031.6	3680.3	3601.5
22.5°	10721.0	10532.0	9870.3	8795.8	7667.8	6473.6	5329.8	4228.5	3354.2	2952.4	2883.1
25°	11857.0	11674.2	10653.3	9200.7	7786.0	6336.5	4913.9	3538.5	2533.3	2117.4	2090.6
27.5°	13238.6	12836.9	11346.5	9528.4	7741.8	5980.5	4233.3	2572.7	1703.1	1375.4	1336.0
30°	14710.1	14073.6	12121.6	9793.1	7617.4	5414.9	3228.1	1695.2	1068.2	899.6	864.9
32.5°	16432.1	15575.1	12857.4	9972.7	7332.2	4624.0	2197.8	1041.4	675.9	575.0	568.7
35°	18247.0	17155.2	13766.4	10068.8	6817.0	3571.6	1257.2	608.1	422.2	411.2	411.2
37.5°	20181.7	18867.8	14752.7	10083.0	6035.6	2347.4	727.9	363.9	324.5	373.4	392.3
40°	21952.5	20418.0	15751.5	9950.6	5041.5	1342.3	401.7	277.3	291.5	345.0	362.4
42.5°	23647.7	21917.9	16731.4	9637.1	3615.7	737.3	283.6	242.6	258.4	286.7	293.0
45°	25166.5	23266.5	17473.5	9060.5	2241.9	414.3	256.8	212.7	214.3	234.7	237.9
47.5°	26636.4	24523.7	17943.0	8175.1	1159.5	341.9	234.7	192.2	187.5	208.0	214.3
50°	28032.3	25695.8	18220.3	6965.1	597.1	316.7	222.1	176.5	178.0	217.4	220.6
52.5°	29384.0	26814.4	18289.6	5240.0	412.8	285.2	203.2	165.4	171.7	225.3	233.2
55°	30838.2	27986.6	18135.2	3143.1	389.1	261.5	184.3	149.7	162.3	182.8	185.9
57.5°	32169.4	29149.3	17561.7	1332.8	368.7	239.5	167.0	137.1	130.8	148.1	154.4
60°	33640.9	30255.2	16194.2	628.6	343.5	214.3	149.7	121.3	111.9	122.9	129.2
62.5°	35696.9	31085.5	13862.5	472.6	323.0	198.5	133.9	110.3	100.8	107.1	113.4
65°	36810.8	31165.9	10826.6	412.8	307.2	185.9	122.9	104.0	89.8	93.0	99.3
67.5°	37239.3	29582.5	7850.5	359.2	285.2	173.3	113.4	97.7	83.5	80.3	83.5
70°	36123.9	26532.4	4562.5	330.8	258.4	160.7	107.1	94.5	77.2	67.7	67.7
72.5°	32872.1	22348.0	1890.6	294.6	230.0	143.4	100.8	97.7	74.0	53.6	53.6
75°	28312.7	17413.6	564.0	244.2	196.9	130.8	100.8	100.8	72.5	41.0	41.0
77.5°	22481.9	10856.5	335.6	190.6	156.0	116.6	99.3	96.1	55.1	31.5	29.9
80°	12778.6	3852.0	244.2	141.8	119.7	96.1	88.2	78.8	41.0	26.8	26.8
82.5°	5106.1	872.8	173.3	100.8	97.7	74.0	58.3	45.7	33.1	23.6	23.6
85°	1339.1	275.7	104.0	66.2	59.9	55.1	20.5	18.9	26.8	22.1	22.1
87.5°	220.6	110.3	55.1	50.4	37.8	26.8	9.5	9.5	15.8	18.9	20.5
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)