

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: P285813

Luminaire Tested: **PRV-XL-C150-D-UNV-T3-BZ-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T3-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 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: 37386 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

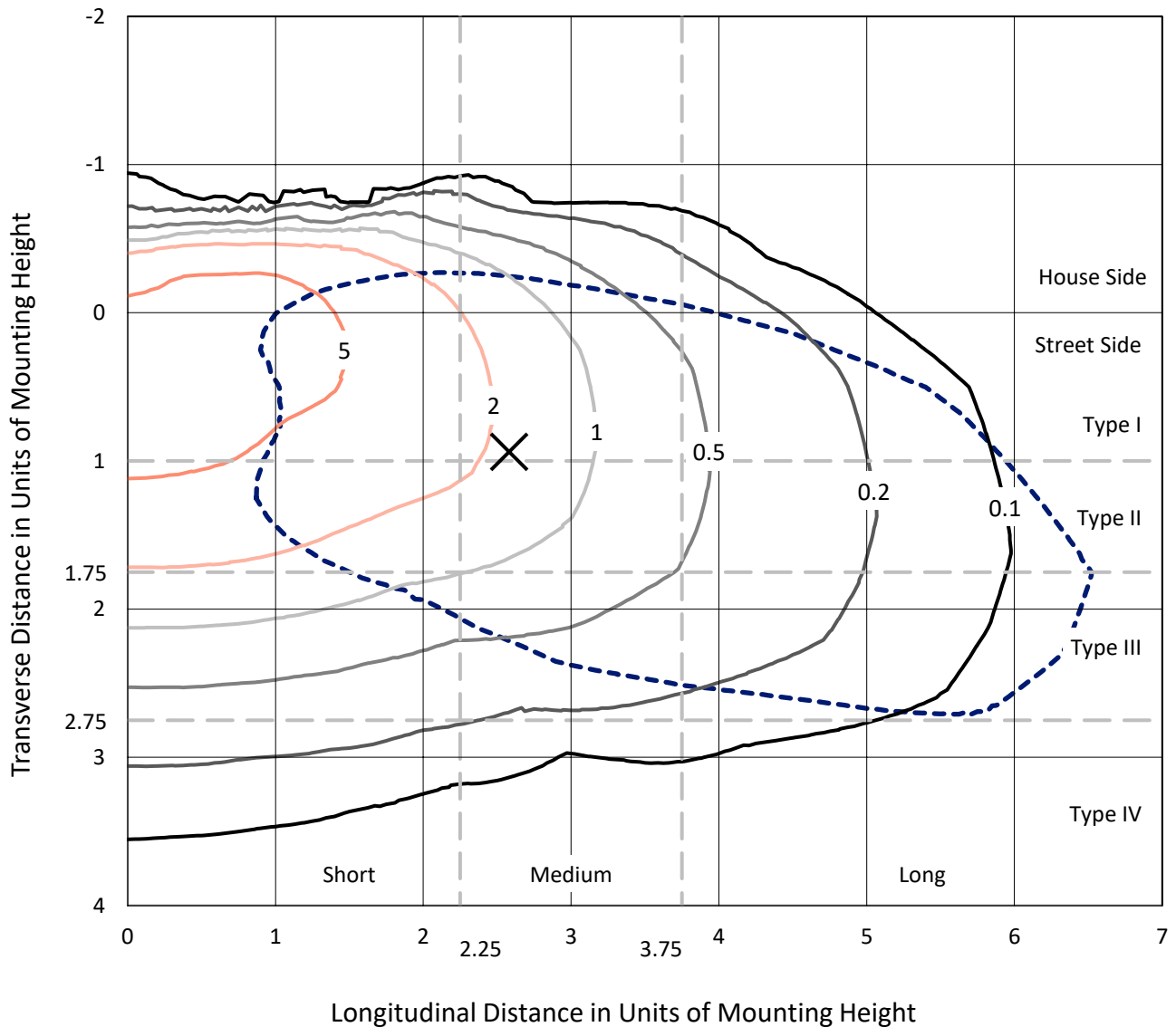
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

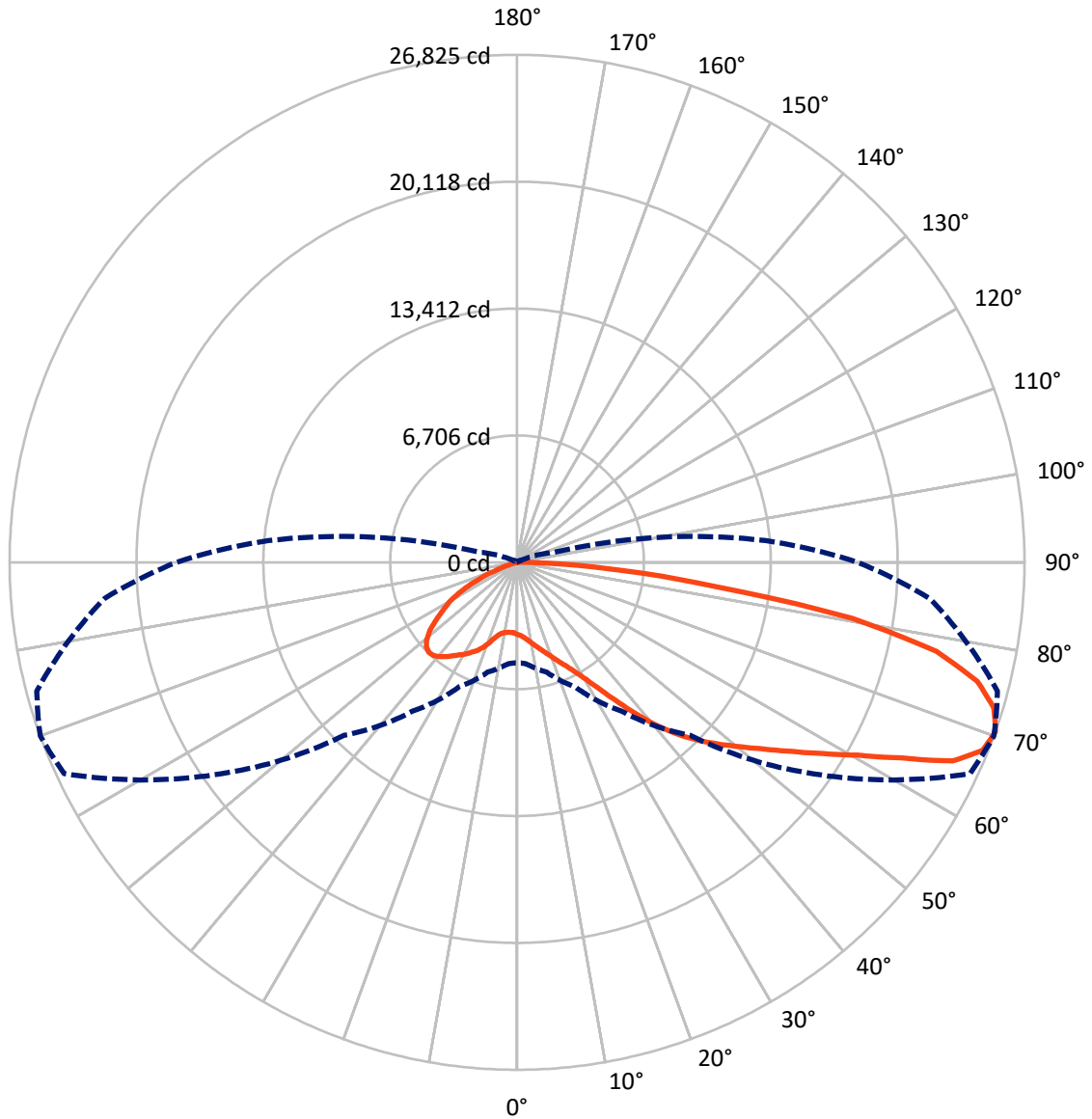
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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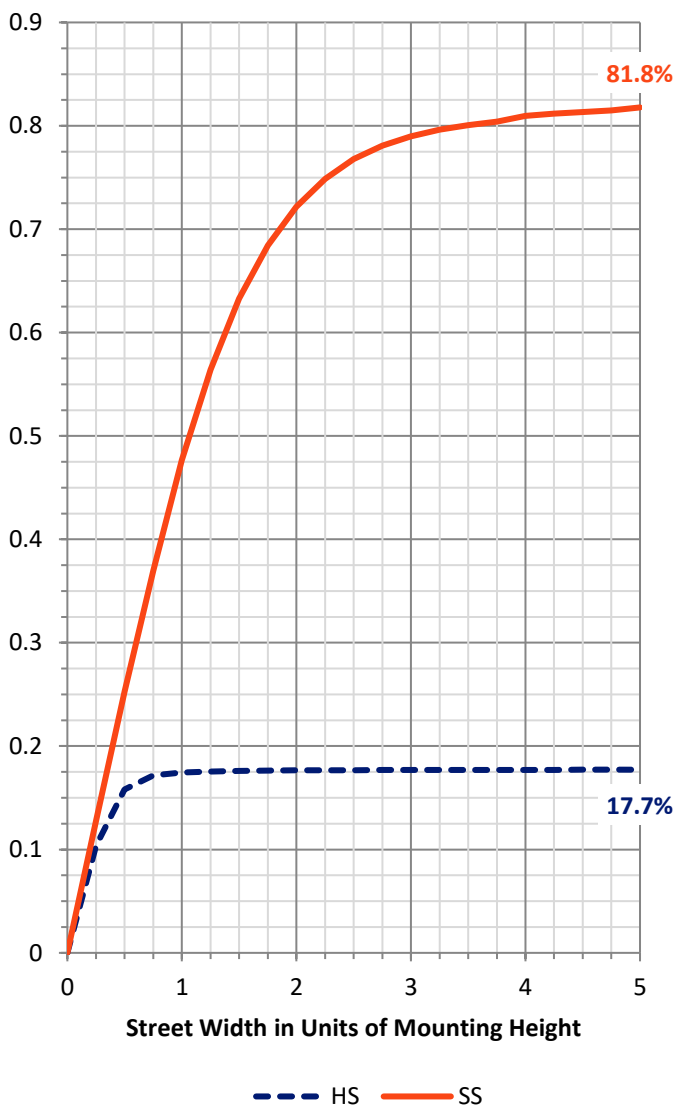
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6699.3	0.0	6699.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	30686.7	0.0	30686.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	37386.0	0.0	37386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	1.0
10°-20°	1160.8	3.1
20°-30°	2113.7	5.7
30°-40°	3593.6	9.6
40°-50°	5652.5	15.1
50°-60°	7630.3	20.4
60°-70°	8926.7	23.9
70°-80°	6642.4	17.8
80°-90°	1296.7	3.5
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°	37386.0	100.0
0°-180°	37386.0	100.0

Coefficient of Utilization

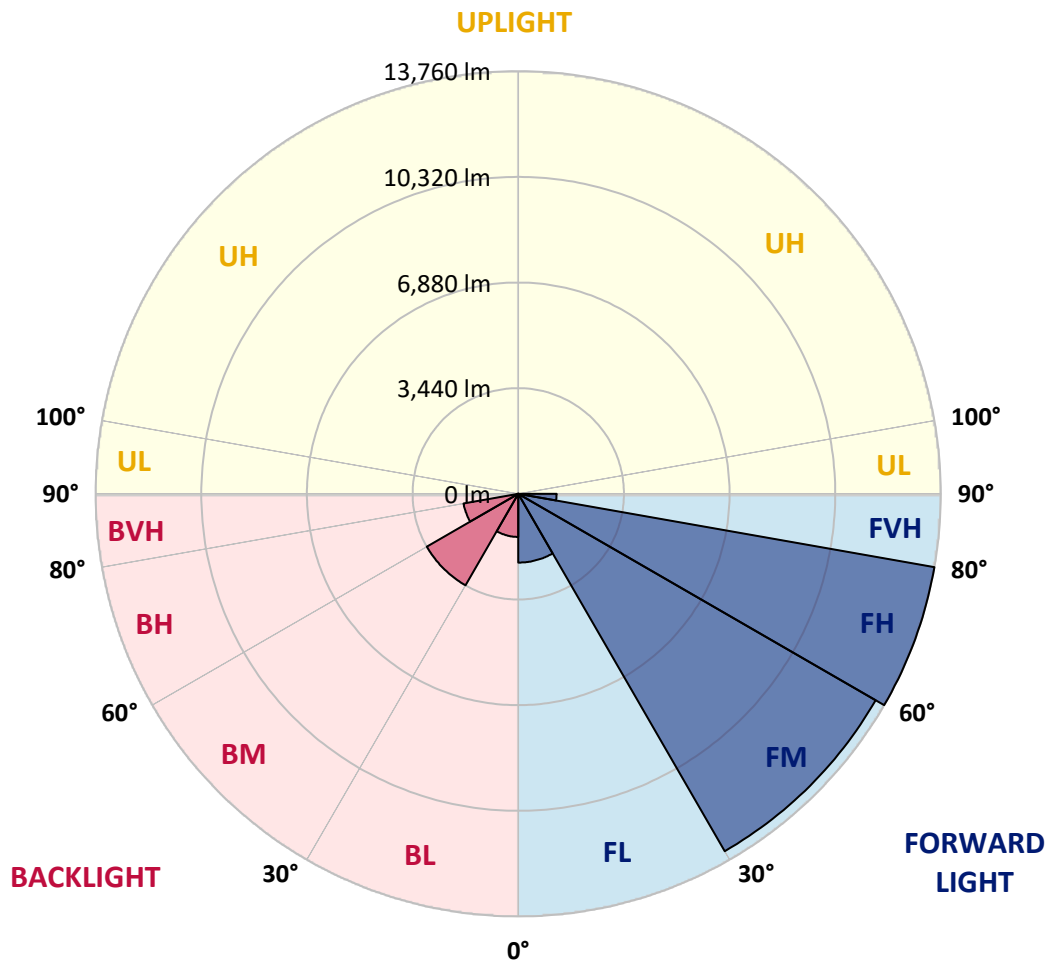


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2239.6	6.0			
FM (30°-60°)	13438.1	35.9			
FH (60°-80°)	13759.8	36.8			G5
FVH (80°-90°)	1249.2	3.3			G5
BL (0°-30°)	1404.2	3.8	B3/2500		
BM (30°-60°)	3438.3	9.2	B3/5000		
BH (60°-80°)	1809.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	47.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1
2.5°	4035.2	4032.0	4038.3	4022.6	4032.0	4002.1	3975.3	3937.6	3879.3	3858.8	3819.5
5°	4232.0	4235.1	4233.6	4222.5	4208.4	4176.9	4123.3	4071.4	4002.1	3969.1	3891.9
7.5°	4400.4	4402.0	4408.3	4405.2	4397.3	4356.4	4307.5	4241.4	4158.0	4115.5	4010.0
10°	4534.3	4532.7	4542.1	4556.3	4587.8	4556.3	4491.8	4438.2	4348.5	4291.8	4161.1
12.5°	4622.4	4611.4	4638.2	4677.5	4734.2	4738.9	4696.4	4641.3	4562.6	4496.5	4350.1
15°	4663.4	4658.6	4707.4	4789.3	4871.2	4897.9	4891.6	4850.7	4792.5	4726.3	4567.3
17.5°	4759.4	4757.8	4790.9	4886.9	4983.0	5050.7	5119.9	5113.6	5060.1	5012.9	4847.6
20°	4915.3	4918.4	4918.4	5001.9	5107.3	5227.0	5364.0	5406.5	5364.0	5335.6	5176.6
22.5°	5105.8	5091.6	5082.1	5151.4	5280.5	5447.4	5641.1	5719.8	5713.5	5685.1	5589.1
25°	5373.4	5341.9	5274.2	5360.8	5519.8	5715.1	5941.8	6074.0	6085.0	6092.9	6162.2
27.5°	5798.5	5796.9	5682.0	5688.3	5796.9	6023.6	6300.7	6529.0	6560.5	6648.7	6886.4
30°	6655.0	6568.4	6436.1	6225.2	6188.9	6403.1	6733.7	7083.2	7172.9	7442.2	7730.3
32.5°	7456.3	7391.8	7298.9	7054.9	6757.3	6836.0	7212.3	7730.3	7966.4	8503.3	8766.2
35°	8144.3	8111.3	8042.0	7897.2	7627.9	7424.9	7733.4	8449.8	8947.3	9734.5	9964.4
37.5°	8816.6	8791.4	8745.8	8618.2	8449.8	8145.9	8339.6	9298.4	10107.6	11030.2	11148.3
40°	9407.0	9399.1	9438.5	9359.8	9285.8	9096.9	9040.2	10194.2	11319.9	12292.9	12264.5
42.5°	9923.4	9910.8	10102.9	9999.0	10087.2	10014.7	9896.7	11031.8	12418.8	13328.8	13232.8
45°	10268.2	10261.9	10465.0	10568.9	10817.7	10871.2	10800.4	11900.9	13420.1	14278.2	14067.2
47.5°	10531.1	10513.8	10625.6	11025.5	11485.2	11593.9	11730.8	12870.7	14361.6	15117.3	14862.3
50°	10674.4	10680.7	10910.6	11450.6	12130.7	12381.0	12669.2	14023.1	15318.9	16016.3	15594.4
52.5°	10767.3	10835.0	11173.5	11823.7	12752.6	13191.9	13522.5	15268.5	16403.6	16864.9	16414.7
55°	10833.4	10953.1	11291.6	12025.2	13141.5	13868.9	14352.2	16581.5	17638.0	17929.2	17283.7
57.5°	10406.8	10534.3	11104.2	12061.4	13462.7	14440.4	15303.1	17987.5	19081.7	19108.4	18091.4
60°	9709.3	9788.0	10517.0	11839.5	13417.0	14966.2	16469.8	19653.2	20690.7	20676.5	19089.5
62.5°	8988.2	9029.2	9769.1	11253.8	13158.8	15159.9	17581.3	21892.0	22783.1	22362.7	20106.6
65°	8035.7	8081.4	8845.0	10287.1	12440.9	15029.2	18532.2	24239.4	25308.4	24637.7	21090.6
67.5°	6795.1	6881.7	7587.0	8926.8	11272.7	14339.6	19256.4	25848.4	26536.4	25949.2	21780.2
70°	5299.4	5376.6	6006.3	7269.0	9588.1	12933.7	19593.4	26415.2	26824.6	26286.1	21896.7
72.5°	3773.8	3830.5	4109.2	5165.6	7272.1	10808.2	19273.8	26142.8	26355.4	25683.1	21106.4
75°	2873.3	2827.6	2992.9	3392.8	4254.0	7594.9	17329.4	24911.7	25128.9	24387.4	19565.0
77.5°	2079.8	2043.6	2241.9	2552.1	2967.7	3570.7	12181.1	22383.2	22663.4	22057.3	16948.4
80°	1223.3	1275.3	1538.2	1832.6	2163.2	2378.9	5743.4	16721.7	17956.0	17708.8	12355.9
82.5°	233.0	251.9	639.2	971.4	1191.8	1261.1	2174.2	9197.6	10542.2	10811.4	6527.4
85°	152.7	165.3	382.6	390.5	381.0	488.1	878.5	4431.9	5691.4	5756.0	2867.0
87.5°	70.8	78.7	116.5	168.5	214.1	256.6	289.7	1190.2	1758.6	1799.5	566.8
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°	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1	3821.1
2.5°	3799.0	3783.3	3750.2	3721.9	3703.0	3692.0	3629.0	3618.0	3594.3	3577.0	3569.2
5°	3855.7	3825.8	3745.5	3690.4	3619.5	3561.3	3455.8	3402.3	3370.8	3337.7	3329.8
7.5°	3951.7	3902.9	3777.0	3677.8	3556.6	3451.1	3303.1	3218.1	3158.2	3111.0	3106.3
10°	4087.1	4010.0	3828.9	3684.1	3509.3	3364.5	3180.3	3043.3	2959.9	2898.5	2895.3
12.5°	4255.6	4150.1	3926.5	3734.5	3509.3	3309.4	3090.5	2907.9	2785.1	2701.7	2692.2
15°	4466.6	4340.6	4088.7	3852.5	3586.5	3331.4	3029.1	2783.5	2604.1	2470.2	2463.9
17.5°	4729.5	4598.8	4353.2	4087.1	3732.9	3366.1	2983.5	2637.1	2377.3	2218.3	2201.0
20°	5061.7	5000.3	4748.4	4359.5	3884.0	3383.4	2881.1	2434.0	2081.4	1876.7	1849.9
22.5°	5537.2	5502.5	5142.0	4592.5	3970.6	3329.8	2712.7	2109.7	1681.5	1461.0	1440.6
25°	6132.3	6012.6	5494.6	4765.7	3986.4	3211.8	2427.7	1695.6	1217.0	998.2	990.3
27.5°	6752.6	6535.3	5800.1	4886.9	3940.7	2974.0	2027.8	1206.0	758.9	618.7	620.3
30°	7535.1	7122.6	6146.4	5001.9	3835.2	2651.3	1503.5	751.0	477.0	392.0	381.0
32.5°	8437.2	7865.7	6492.8	5047.5	3638.4	2194.7	954.1	461.3	299.1	255.1	250.3
35°	9490.5	8785.1	6938.4	5052.2	3314.1	1631.1	571.5	270.8	203.1	204.7	207.8
37.5°	10589.4	9759.7	7481.5	4995.6	2909.5	1020.2	322.8	174.8	174.8	207.8	218.8
40°	11584.4	10691.7	8057.8	4868.0	2339.6	593.5	182.6	151.1	160.6	195.2	204.7
42.5°	12497.6	11497.8	8585.2	4669.7	1670.4	321.2	157.4	137.0	144.8	160.6	165.3
45°	13287.9	12198.4	8964.6	4350.1	1013.9	198.4	144.8	124.4	122.8	133.8	137.0
47.5°	13969.6	12825.0	9221.2	3893.5	530.6	188.9	140.1	113.4	105.5	110.2	111.8
50°	14668.6	13289.5	9317.3	3252.7	272.4	177.9	130.7	105.5	97.6	111.8	113.4
52.5°	15375.5	13986.9	9329.9	2356.9	215.7	160.6	119.7	97.6	94.5	124.4	129.1
55°	16063.6	14495.5	9148.8	1365.0	209.4	149.6	108.6	88.2	91.3	94.5	94.5
57.5°	16789.4	15104.8	8767.8	596.7	203.1	137.0	100.8	80.3	67.7	75.6	78.7
60°	17567.1	15630.6	8001.1	344.8	193.7	122.8	86.6	66.1	56.7	56.7	61.4
62.5°	18352.7	16016.3	6746.3	251.9	184.2	114.9	75.6	58.3	47.2	47.2	50.4
65°	18862.8	15759.7	5203.4	223.6	177.9	103.9	66.1	50.4	37.8	36.2	39.4
67.5°	18769.9	14777.3	3665.2	199.9	162.2	94.5	58.3	44.1	33.1	26.8	28.3
70°	18000.1	13171.4	2032.5	187.4	144.8	86.6	52.0	39.4	26.8	17.3	17.3
72.5°	16581.5	11068.0	780.9	168.5	129.1	75.6	47.2	37.8	23.6	9.4	7.9
75°	14464.0	8423.0	281.8	141.7	107.1	69.3	45.7	39.4	22.0	3.1	0.0
77.5°	11340.4	4713.7	166.9	105.5	80.3	59.8	48.8	39.4	12.6	0.0	0.0
80°	6091.3	1701.9	118.1	67.7	53.5	44.1	44.1	31.5	6.3	0.0	0.0
82.5°	2528.5	382.6	75.6	37.8	36.2	28.3	28.3	14.2	1.6	0.0	0.0
85°	716.4	111.8	34.6	20.5	20.5	15.7	7.9	0.0	0.0	0.0	0.0
87.5°	61.4	23.6	9.4	11.0	7.9	3.1	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)