

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: P285807

Luminaire Tested: **PRV-XL-C125-D-UNV-T3-BZ-7030-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285807
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-C125-D-UNV-T3-BZ-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K 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: 32405 lumens
Efficiency: N/A
Efficacy: 122.7 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

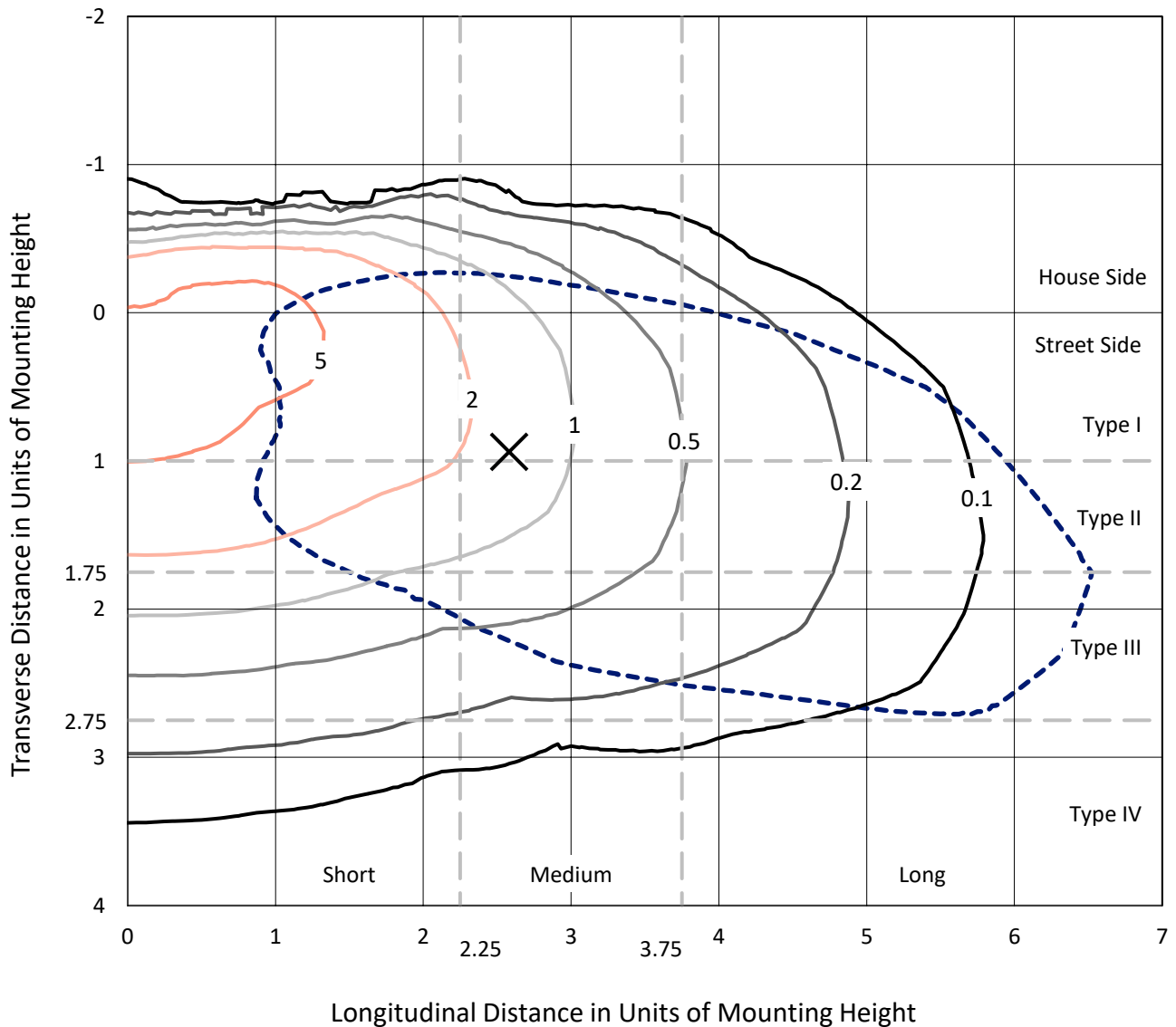
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

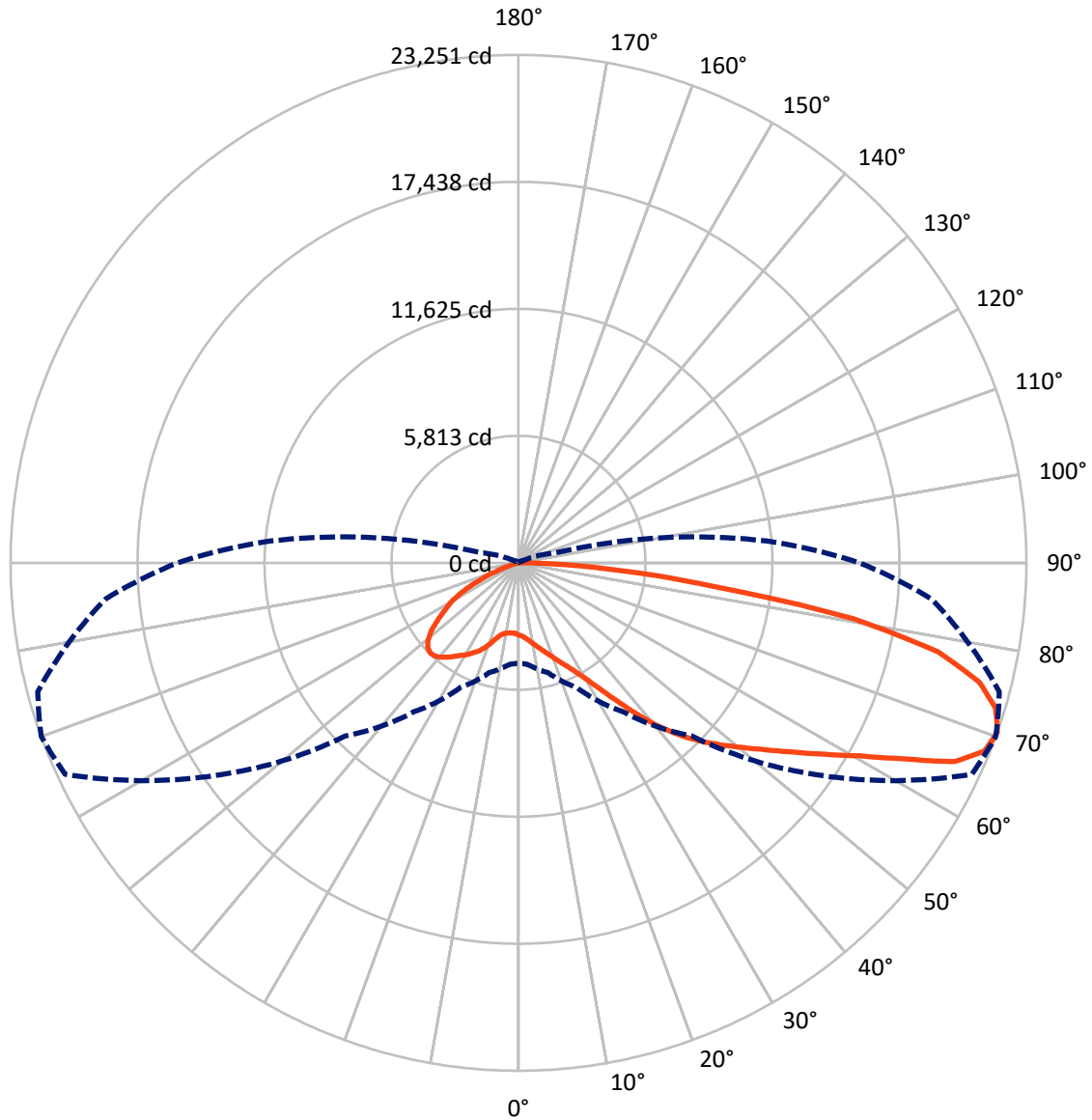
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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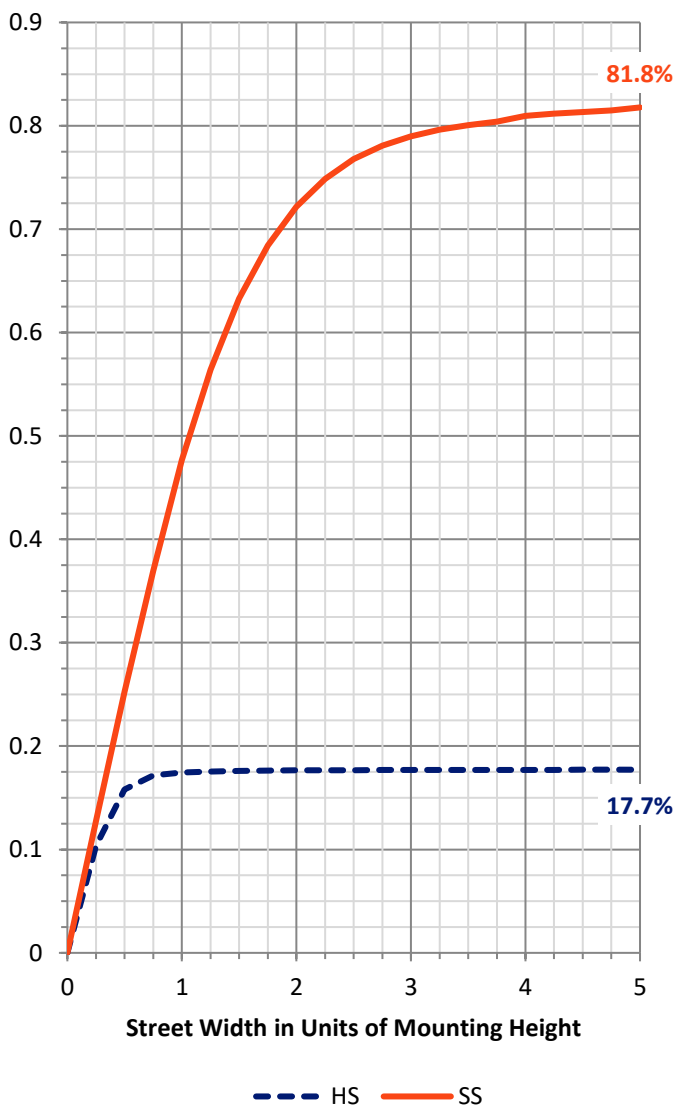
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5806.8	0.0	5806.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	26598.2	0.0	26598.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	32405.0	0.0	32405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	1.0
10°-20°	1006.1	3.1
20°-30°	1832.1	5.7
30°-40°	3114.8	9.6
40°-50°	4899.4	15.1
50°-60°	6613.7	20.4
60°-70°	7737.4	23.9
70°-80°	5757.4	17.8
80°-90°	1123.9	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°	32405.0	100.0
0°-180°	32405.0	100.0

Coefficient of Utilization

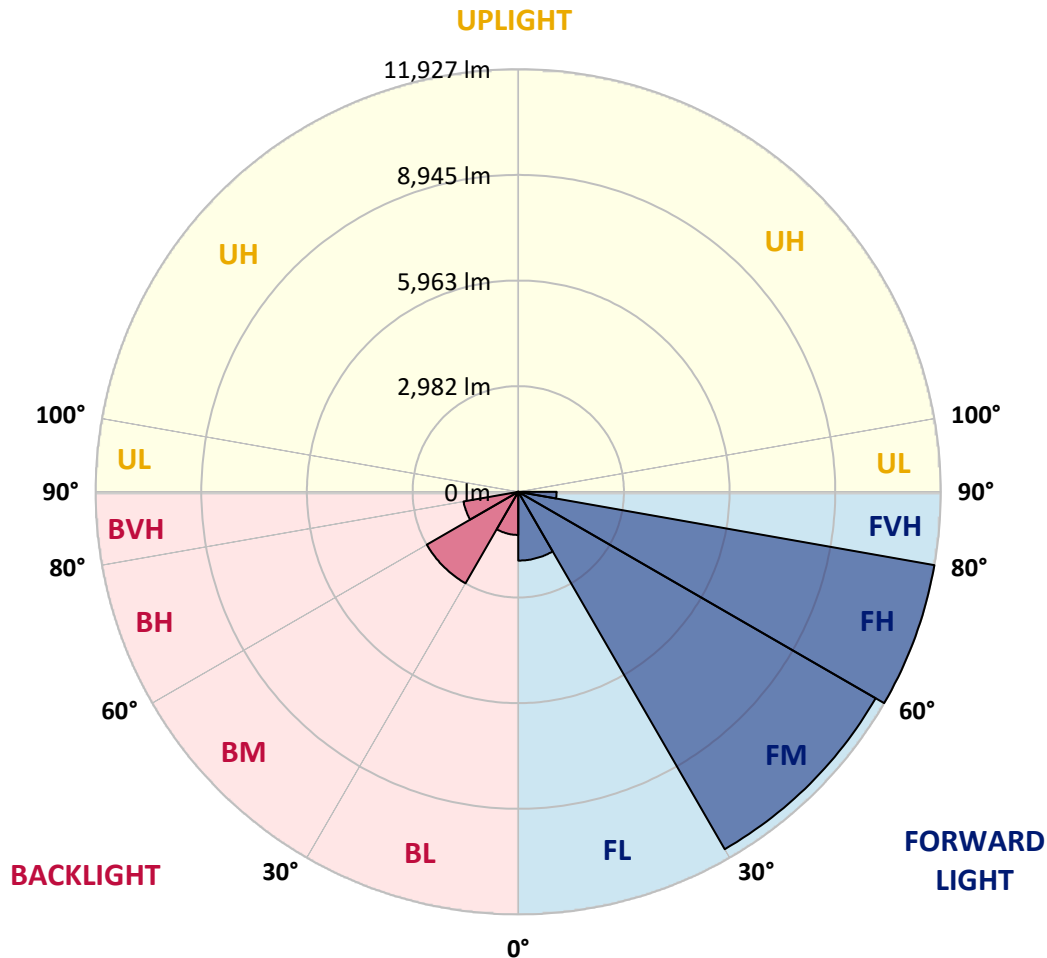


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1941.2	6.0			
FM (30°-60°)	11647.7	35.9			
FH (60°-80°)	11926.6	36.8			G4/12000
FVH (80°-90°)	1082.8	3.3			G5
BL (0°-30°)	1217.2	3.8	B3/2500		
BM (30°-60°)	2980.2	9.2	B3/5000		
BH (60°-80°)	1568.2	4.8	B3/2500		G3/2500
BVH (80°-90°)	41.2	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°	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0
2.5°	3497.6	3494.8	3500.3	3486.6	3494.8	3468.9	3445.7	3413.0	3362.5	3344.7	3310.6
5°	3668.1	3670.9	3669.5	3660.0	3647.7	3620.4	3574.0	3528.9	3468.9	3440.2	3373.4
7.5°	3814.2	3815.5	3821.0	3818.3	3811.4	3775.9	3733.6	3676.3	3604.0	3567.2	3475.7
10°	3930.2	3928.8	3937.0	3949.3	3976.6	3949.3	3893.3	3846.9	3769.1	3720.0	3606.7
12.5°	4006.6	3997.0	4020.2	4054.3	4103.5	4107.6	4070.7	4022.9	3954.7	3897.4	3770.5
15°	4042.1	4038.0	4080.3	4151.2	4222.2	4245.4	4239.9	4204.4	4154.0	4096.6	3958.8
17.5°	4125.3	4123.9	4152.6	4235.8	4319.1	4377.8	4437.8	4432.3	4385.9	4345.0	4201.7
20°	4260.4	4263.1	4263.1	4335.4	4426.9	4530.6	4649.3	4686.2	4649.3	4624.8	4486.9
22.5°	4425.5	4413.2	4405.0	4465.1	4577.0	4721.6	4889.5	4957.7	4952.3	4927.7	4844.5
25°	4657.5	4630.2	4571.5	4646.6	4784.4	4953.6	5150.1	5264.8	5274.3	5281.1	5341.2
27.5°	5026.0	5024.6	4925.0	4930.4	5024.6	5221.1	5461.3	5659.1	5686.4	5762.9	5968.9
30°	5768.3	5693.3	5578.6	5395.8	5364.4	5550.0	5836.5	6139.5	6217.3	6450.6	6700.4
32.5°	6462.9	6407.0	6326.5	6114.9	5857.0	5925.3	6251.4	6700.4	6905.1	7370.4	7598.3
35°	7059.3	7030.6	6970.6	6845.0	6611.7	6435.6	6703.1	7324.0	7755.2	8437.5	8636.8
37.5°	7642.0	7620.1	7580.6	7470.0	7324.0	7060.6	7228.5	8059.5	8761.0	9560.6	9663.0
40°	8153.7	8146.9	8181.0	8112.8	8048.6	7884.9	7835.7	8836.0	9811.7	10655.1	10630.5
42.5°	8601.3	8590.4	8756.9	8666.8	8743.2	8680.5	8578.1	9562.0	10764.3	11553.0	11469.8
45°	8900.2	8894.7	9070.7	9160.8	9376.4	9422.8	9361.4	10315.3	11632.2	12375.9	12193.0
47.5°	9128.1	9113.0	9209.9	9556.5	9955.0	10049.2	10167.9	11155.9	12448.2	13103.2	12882.2
50°	9252.2	9257.7	9456.9	9925.0	10514.5	10731.5	10981.2	12154.8	13277.9	13882.4	13516.7
52.5°	9332.7	9391.4	9684.8	10248.4	11053.6	11434.3	11720.9	13234.2	14218.1	14618.0	14227.7
55°	9390.1	9493.8	9787.2	10423.1	11390.6	12021.1	12440.0	14372.4	15288.0	15540.5	14981.0
57.5°	9020.2	9130.8	9624.8	10454.5	11669.0	12516.4	13264.3	15591.0	16539.4	16562.6	15681.0
60°	8415.7	8483.9	9115.8	10262.1	11629.4	12972.2	14275.5	17034.8	17934.1	17921.8	16546.2
62.5°	7790.7	7826.2	8467.6	9754.4	11405.6	13140.1	15238.9	18975.3	19747.7	19383.3	17427.8
65°	6965.1	7004.7	7666.5	8916.5	10783.4	13026.8	16063.1	21009.9	21936.5	21355.2	18280.7
67.5°	5889.8	5964.8	6576.2	7737.5	9770.8	12429.1	16690.9	22404.6	23000.9	22491.9	18878.4
70°	4593.4	4660.2	5206.1	6300.5	8310.6	11210.5	16982.9	22895.9	23250.7	22784.0	18979.4
72.5°	3271.0	3320.2	3561.7	4477.4	6303.3	9368.2	16705.9	22659.8	22844.0	22261.3	18294.3
75°	2490.5	2450.9	2594.2	2940.8	3687.2	6583.0	15020.6	21592.6	21781.0	21138.2	16958.3
77.5°	1802.7	1771.3	1943.2	2212.1	2572.3	3095.0	10558.2	19401.0	19643.9	19118.6	14690.3
80°	1060.3	1105.4	1333.2	1588.4	1875.0	2062.0	4978.2	14493.8	15563.7	15349.4	10709.7
82.5°	202.0	218.3	554.0	842.0	1033.0	1093.1	1884.6	7972.2	9137.6	9371.0	5657.8
85°	132.4	143.3	331.6	338.4	330.2	423.0	761.5	3841.5	4933.2	4989.1	2485.0
87.5°	61.4	68.2	101.0	146.0	185.6	222.4	251.1	1031.7	1524.3	1559.8	491.3
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°	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0
2.5°	3292.9	3279.2	3250.6	3226.0	3209.6	3200.1	3145.5	3135.9	3115.5	3100.5	3093.6
5°	3342.0	3316.1	3246.5	3198.7	3137.3	3086.8	2995.4	2949.0	2921.7	2893.0	2886.2
7.5°	3425.2	3382.9	3273.8	3187.8	3082.7	2991.3	2863.0	2789.3	2737.5	2696.5	2692.4
10°	3542.6	3475.7	3318.8	3193.2	3041.8	2916.2	2756.6	2637.8	2565.5	2512.3	2509.6
12.5°	3688.6	3597.2	3403.4	3236.9	3041.8	2868.5	2678.8	2520.5	2414.0	2341.7	2333.5
15°	3871.5	3762.3	3544.0	3339.3	3108.6	2887.6	2625.6	2412.7	2257.1	2141.1	2135.7
17.5°	4099.4	3986.1	3773.2	3542.6	3235.6	2917.6	2586.0	2285.8	2060.6	1922.8	1907.8
20°	4387.3	4334.1	4115.7	3778.7	3366.6	2932.6	2497.3	2109.7	1804.0	1626.6	1603.4
22.5°	4799.4	4769.4	4456.9	3980.6	3441.6	2886.2	2351.3	1828.6	1457.4	1266.4	1248.6
25°	5315.3	5211.5	4762.6	4130.8	3455.3	2783.9	2104.3	1469.7	1054.9	865.2	858.4
27.5°	5852.9	5664.6	5027.3	4235.8	3415.7	2577.8	1757.7	1045.3	657.8	536.3	537.7
30°	6531.1	6173.6	5327.5	4335.4	3324.3	2298.0	1303.2	650.9	413.5	339.8	330.2
32.5°	7313.1	6817.7	5627.8	4375.0	3153.7	1902.3	827.0	399.8	259.3	221.1	217.0
35°	8226.0	7614.7	6014.0	4379.1	2872.6	1413.8	495.4	234.7	176.0	177.4	180.1
37.5°	9178.5	8459.4	6484.8	4330.0	2521.8	884.3	279.8	151.5	151.5	180.1	189.7
40°	10041.0	9267.2	6984.2	4219.5	2027.8	514.5	158.3	131.0	139.2	169.2	177.4
42.5°	10832.5	9965.9	7441.4	4047.5	1447.9	278.4	136.5	118.7	125.5	139.2	143.3
45°	11517.5	10573.2	7770.2	3770.5	878.8	171.9	125.5	107.8	106.4	116.0	118.7
47.5°	12108.4	11116.3	7992.7	3374.7	459.9	163.8	121.5	98.3	91.4	95.5	96.9
50°	12714.3	11518.9	8075.9	2819.3	236.1	154.2	113.3	91.4	84.6	96.9	98.3
52.5°	13327.0	12123.4	8086.8	2042.9	187.0	139.2	103.7	84.6	81.9	107.8	111.9
55°	13923.4	12564.2	7929.9	1183.1	181.5	129.6	94.2	76.4	79.1	81.9	81.9
57.5°	14552.5	13092.3	7599.7	517.2	176.0	118.7	87.3	69.6	58.7	65.5	68.2
60°	15226.6	13548.1	6935.1	298.9	167.9	106.4	75.1	57.3	49.1	49.1	53.2
62.5°	15907.6	13882.4	5847.5	218.3	159.7	99.6	65.5	50.5	40.9	40.9	43.7
65°	16349.7	13660.0	4510.1	193.8	154.2	90.1	57.3	43.7	32.8	31.4	34.1
67.5°	16269.2	12808.5	3176.9	173.3	140.6	81.9	50.5	38.2	28.7	23.2	24.6
70°	15601.9	11416.5	1761.7	162.4	125.5	75.1	45.0	34.1	23.2	15.0	15.0
72.5°	14372.4	9593.4	676.9	146.0	111.9	65.5	40.9	32.8	20.5	8.2	6.8
75°	12536.9	7300.8	244.3	122.8	92.8	60.0	39.6	34.1	19.1	2.7	0.0
77.5°	9829.5	4085.7	144.7	91.4	69.6	51.9	42.3	34.1	10.9	0.0	0.0
80°	5279.8	1475.2	102.3	58.7	46.4	38.2	38.2	27.3	5.5	0.0	0.0
82.5°	2191.6	331.6	65.5	32.8	31.4	24.6	24.6	12.3	1.4	0.0	0.0
85°	620.9	96.9	30.0	17.7	17.7	13.6	6.8	0.0	0.0	0.0	0.0
87.5°	53.2	20.5	8.2	9.6	6.8	2.7	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)