

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: P381122

Luminaire Tested: **PRV-XL-PA4A-730-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-730-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30992 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

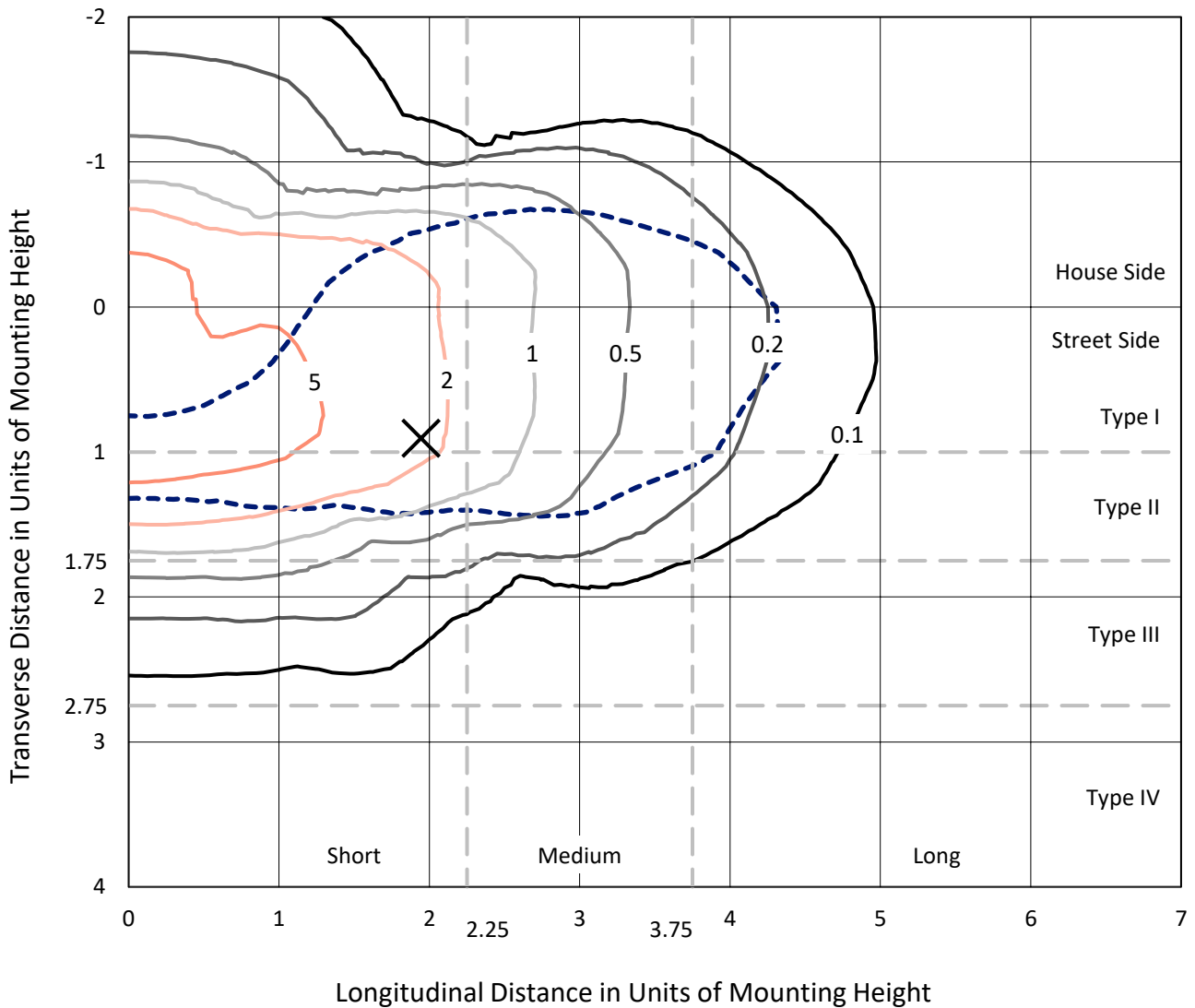
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

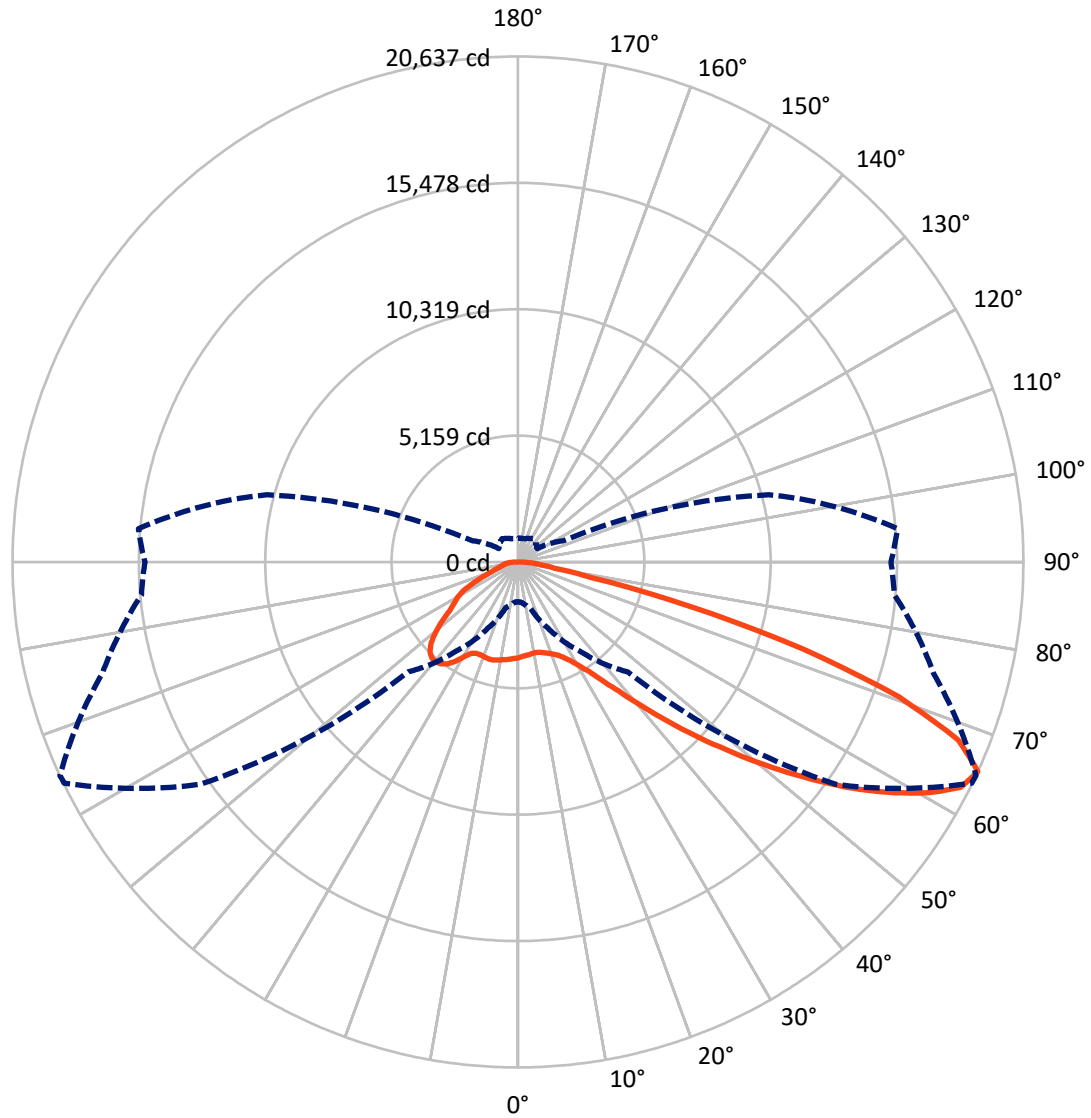
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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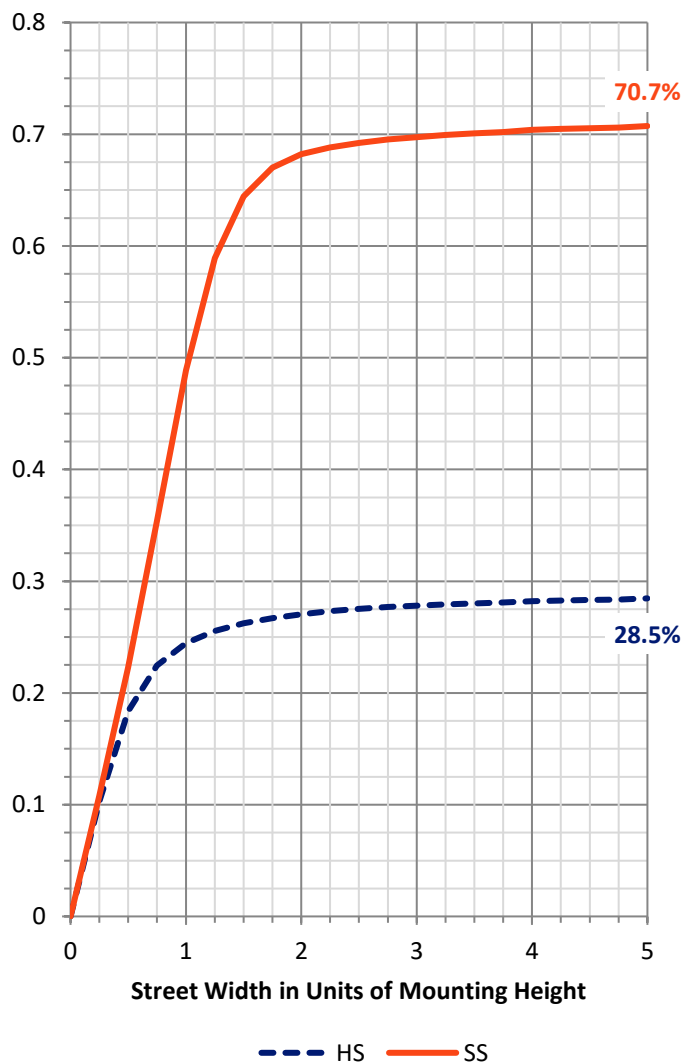
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8960.2	0.0	8960.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	22031.8	0.0	22031.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	30992.0	0.0	30992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.1	1.2
10°-20°	1113.9	3.6
20°-30°	1978.6	6.4
30°-40°	3347.4	10.8
40°-50°	5827.1	18.8
50°-60°	7530.5	24.3
60°-70°	6589.6	21.3
70°-80°	3584.3	11.6
80°-90°	647.6	2.1
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°	30992.0	100.0
0°-180°	30992.0	100.0

Coefficient of Utilization



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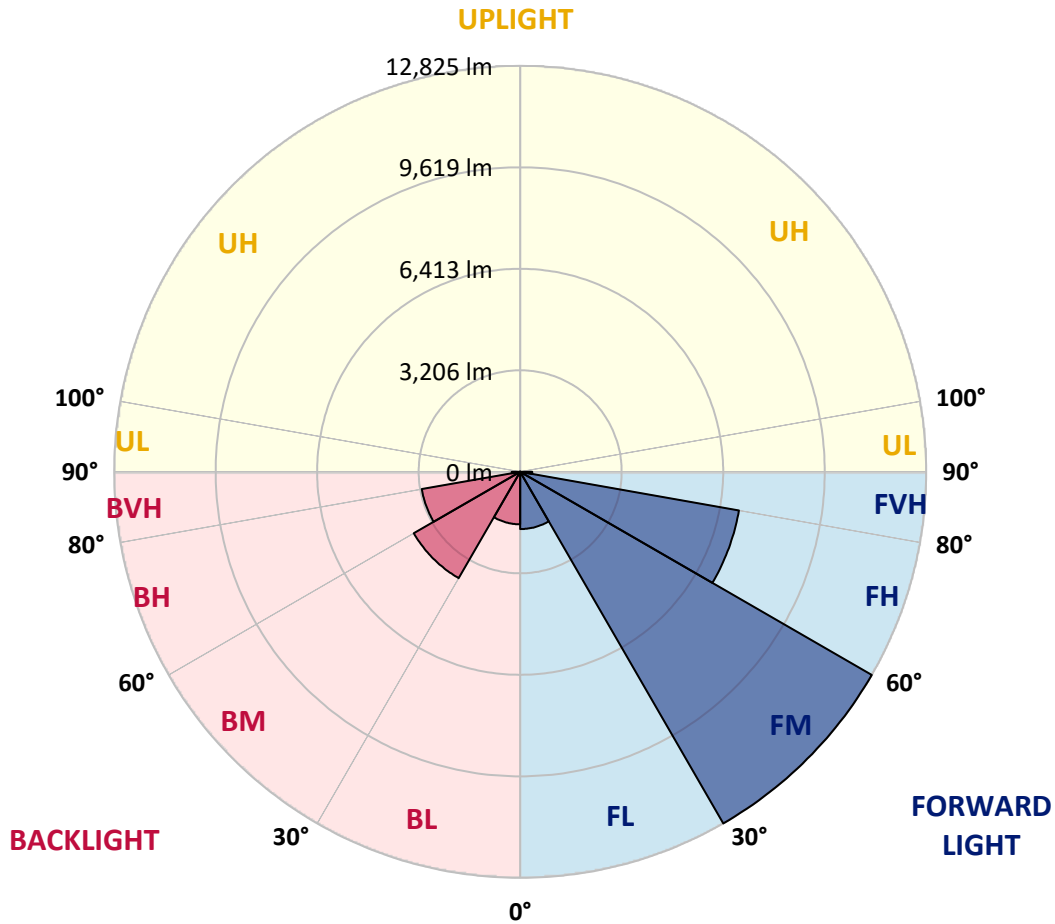
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.3	5.8			
FM (30°-60°)	12825.3	41.4			
FH (60°-80°)	7017.0	22.6			G3/7500
FVH (80°-90°)	381.1	1.2			G3/500
BL (0°-30°)	1657.3	5.3	B3/2500		
BM (30°-60°)	3879.6	12.5	B3/5000		
BH (60°-80°)	3156.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	266.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1
2.5°	3846.8	3842.7	3834.6	3842.7	3846.8	3854.9	3850.9	3859.0	3854.9	3867.2	3887.6
5°	3748.9	3740.7	3736.6	3757.0	3769.3	3789.7	3797.8	3826.4	3822.3	3842.7	3875.3
7.5°	3638.7	3638.7	3634.7	3659.1	3675.5	3712.2	3740.7	3789.7	3793.8	3830.5	3867.2
10°	3553.1	3557.2	3553.1	3573.5	3598.0	3642.8	3691.8	3761.1	3765.2	3818.2	3854.9
12.5°	3520.4	3520.4	3520.4	3549.0	3581.6	3642.8	3699.9	3773.4	3781.5	3838.6	3871.3
15°	3565.3	3569.4	3561.2	3589.8	3626.5	3699.9	3753.0	3830.5	3838.6	3891.7	3912.1
17.5°	3724.4	3740.7	3720.3	3736.6	3728.5	3785.6	3834.6	3912.1	3916.1	3961.0	3969.2
20°	4038.5	4054.8	4022.2	4001.8	3928.4	3924.3	3944.7	4005.9	4005.9	4034.4	4014.0
22.5°	4524.0	4540.3	4483.2	4405.7	4230.2	4144.6	4099.7	4128.3	4124.2	4136.4	4083.4
25°	5168.5	5164.4	5095.1	4952.3	4670.8	4462.8	4352.6	4307.8	4307.8	4283.3	4218.0
27.5°	5968.0	5906.8	5784.5	5613.1	5221.5	4931.9	4695.3	4581.1	4560.7	4487.2	4364.9
30°	6820.6	6775.7	6600.3	6351.5	5898.7	5527.5	5135.9	4907.4	4895.2	4736.1	4552.5
32.5°	7824.1	7750.7	7554.9	7257.1	6714.5	6192.4	5702.9	5356.1	5335.7	5082.8	4829.9
35°	9113.2	9052.0	8672.6	8374.8	7677.3	6991.9	6412.7	5951.7	5935.4	5625.4	5303.1
37.5°	10659.2	10500.1	10133.0	9574.1	8839.9	8028.1	7293.8	6714.5	6694.1	6351.5	5943.6
40°	12038.0	11895.3	11568.9	11054.9	10267.6	9366.1	8370.7	7669.1	7648.7	7232.6	6718.6
42.5°	13057.9	12960.0	12747.8	12450.1	11887.1	11340.5	9745.5	8823.5	8786.8	8248.4	7607.9
45°	13649.4	13571.9	13449.5	13522.9	13514.8	13412.8	11385.4	10198.3	10080.0	9382.4	8599.2
47.5°	13506.6	13437.2	13486.2	14057.3	14844.6	15436.1	13294.5	11605.6	11446.5	10536.9	9655.7
50°	12474.5	12503.1	12760.1	13853.3	15619.7	16933.2	15411.6	13208.8	12996.7	11699.5	10659.2
52.5°	10594.0	10663.3	11287.5	12817.2	15534.0	17904.1	17324.8	14865.0	14583.5	12833.5	11573.0
55°	8415.6	8591.0	9398.7	11006.0	14416.3	17973.4	18768.9	16529.4	16219.3	13898.2	12368.5
57.5°	6225.0	6486.1	7420.3	8897.0	12274.6	16876.1	19490.9	18120.3	17745.0	14954.8	13208.8
60°	3948.8	4107.9	5184.8	6926.7	9394.7	14191.9	19397.1	19474.6	19148.3	16007.2	14085.9
62.5°	2521.0	2598.5	3141.1	4940.0	6567.7	10508.3	18373.2	20498.5	20278.3	16965.9	14918.0
65°	1619.5	1652.1	1929.5	3039.1	4470.9	6343.3	15823.6	20608.7	20637.2	17565.5	15432.0
67.5°	1317.6	1333.9	1435.9	1876.5	3161.5	3504.1	11022.3	19042.2	19389.0	17410.5	15256.6
70°	1199.3	1219.7	1325.8	1497.1	2447.6	2419.0	5335.7	15933.8	16500.8	16517.1	14477.5
72.5°	1011.7	1040.2	1183.0	1415.5	1892.8	1909.1	2259.9	11348.6	12184.9	14763.0	13306.7
75°	844.4	860.7	983.1	1248.3	1603.2	1525.7	1586.9	6017.0	7224.5	11838.2	12062.5
77.5°	685.3	701.6	791.4	995.4	1423.7	1187.1	1248.3	2492.5	3079.9	8036.2	9859.7
80°	489.5	505.8	607.8	775.1	1076.9	1068.8	926.0	1374.7	1493.0	4344.5	6404.5
82.5°	350.8	363.1	461.0	554.8	746.5	1072.9	697.6	934.2	979.0	1925.4	2582.2
85°	236.6	236.6	318.2	367.1	481.4	677.2	562.9	632.3	660.8	913.8	697.6
87.5°	102.0	102.0	171.3	187.6	252.9	314.1	420.2	318.2	326.3	493.6	285.6
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°	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1	3916.1
2.5°	3899.8	3903.9	3912.1	3936.5	3952.9	3977.3	3989.6	4005.9	4005.9	3997.7	4001.8
5°	3891.7	3903.9	3932.5	3977.3	4005.9	4050.8	4083.4	4107.9	4116.0	4107.9	4111.9
7.5°	3887.6	3908.0	3956.9	4022.2	4063.0	4120.1	4165.0	4193.5	4213.9	4205.8	4209.8
10°	3875.3	3908.0	3969.2	4050.8	4111.9	4169.1	4209.8	4222.1	4234.3	4226.2	4222.1
12.5°	3891.7	3928.4	3993.6	4091.5	4160.9	4205.8	4218.0	4197.6	4169.1	4152.7	4148.7
15°	3924.3	3961.0	4026.3	4128.3	4189.5	4205.8	4177.2	4111.9	4046.7	4010.0	4005.9
17.5°	3969.2	3993.6	4046.7	4136.4	4185.4	4165.0	4107.9	4030.4	3981.4	3952.9	3956.9
20°	3997.7	3997.7	4038.5	4107.9	4148.7	4132.3	4063.0	3977.3	3899.8	3863.1	3850.9
22.5°	4038.5	4018.1	4022.2	4083.4	4140.5	4116.0	3969.2	3818.2	3708.1	3667.3	3663.2
25°	4148.7	4091.5	4054.8	4091.5	4226.2	4026.3	3732.6	3557.2	3455.2	3418.5	3422.5
27.5°	4283.3	4205.8	4128.3	4189.5	4295.5	3822.3	3430.7	3230.8	3169.6	3141.1	3153.3
30°	4417.9	4315.9	4213.9	4434.2	4246.6	3504.1	3043.2	2847.4	2794.3	2773.9	2790.2
32.5°	4666.7	4499.5	4377.1	4760.6	4095.6	3141.1	2623.0	2443.5	2394.6	2370.1	2361.9
35°	5082.8	4870.7	4748.3	5046.1	3883.5	2737.2	2239.5	2113.1	2060.1	2007.0	1998.9
37.5°	5682.5	5425.5	5315.3	5209.3	3585.7	2337.4	1945.8	1860.2	1782.7	1701.1	1697.0
40°	6400.4	6065.9	5984.3	5282.7	3173.7	1962.1	1741.9	1660.3	1562.4	1484.9	1488.9
42.5°	7228.5	6800.2	6624.8	5262.3	2663.8	1762.3	1595.0	1505.3	1419.6	1350.3	1346.2
45°	8113.7	7628.3	7224.5	5119.5	2158.0	1623.6	1505.3	1399.2	1313.5	1236.0	1227.9
47.5°	9092.8	8550.2	7779.2	4842.1	1782.7	1525.7	1452.2	1301.3	1223.8	1174.8	1174.8
50°	10080.0	9431.4	8289.2	4422.0	1562.4	1452.2	1374.7	1248.3	1187.1	1146.3	1146.3
52.5°	10924.4	10349.2	8709.3	3920.2	1423.7	1391.0	1321.7	1223.8	1158.5	1121.8	1117.7
55°	11744.3	11201.8	9084.6	3422.5	1309.5	1309.5	1309.5	1203.4	1130.0	1097.3	1093.3
57.5°	12560.2	12099.2	9476.2	3096.2	1207.5	1240.1	1285.0	1178.9	1105.5	1076.9	1072.9
60°	13482.1	13176.2	9929.0	2867.8	1117.7	1166.7	1252.3	1150.4	1064.7	1040.2	1036.1
62.5°	14461.2	14461.2	10341.1	2545.5	1036.1	1105.5	1203.4	1113.7	1028.0	1007.6	1003.5
65°	15228.1	15558.5	10606.2	2064.1	954.6	1044.3	1146.3	1064.7	979.0	975.0	966.8
67.5°	15317.8	15835.9	10439.0	1558.3	881.1	979.0	1089.2	1011.7	930.1	930.1	917.8
70°	14673.3	15199.5	9916.8	1166.7	828.1	913.8	1015.7	946.4	868.9	877.1	856.7
72.5°	13596.3	13726.9	8619.6	921.9	766.9	844.4	926.0	873.0	803.6	803.6	775.1
75°	12176.7	11450.6	6261.7	771.0	693.5	762.8	836.3	791.4	730.2	709.8	693.5
77.5°	9692.4	8297.3	3638.7	664.9	632.3	685.3	734.3	701.6	648.6	603.7	603.7
80°	5906.8	4862.5	1607.2	575.2	558.9	599.7	632.3	595.6	550.7	505.8	493.6
82.5°	2247.7	1876.5	779.1	493.6	489.5	514.0	538.5	501.8	469.1	448.7	387.5
85°	616.0	567.0	534.4	412.0	403.9	399.8	428.3	412.0	367.1	301.9	269.2
87.5°	232.5	265.2	289.6	252.9	269.2	248.8	285.6	261.1	232.5	150.9	134.6
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)