

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: P381193

Luminaire Tested: **PRV-XL-PA3B-740-U-T2R-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-740-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24204 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

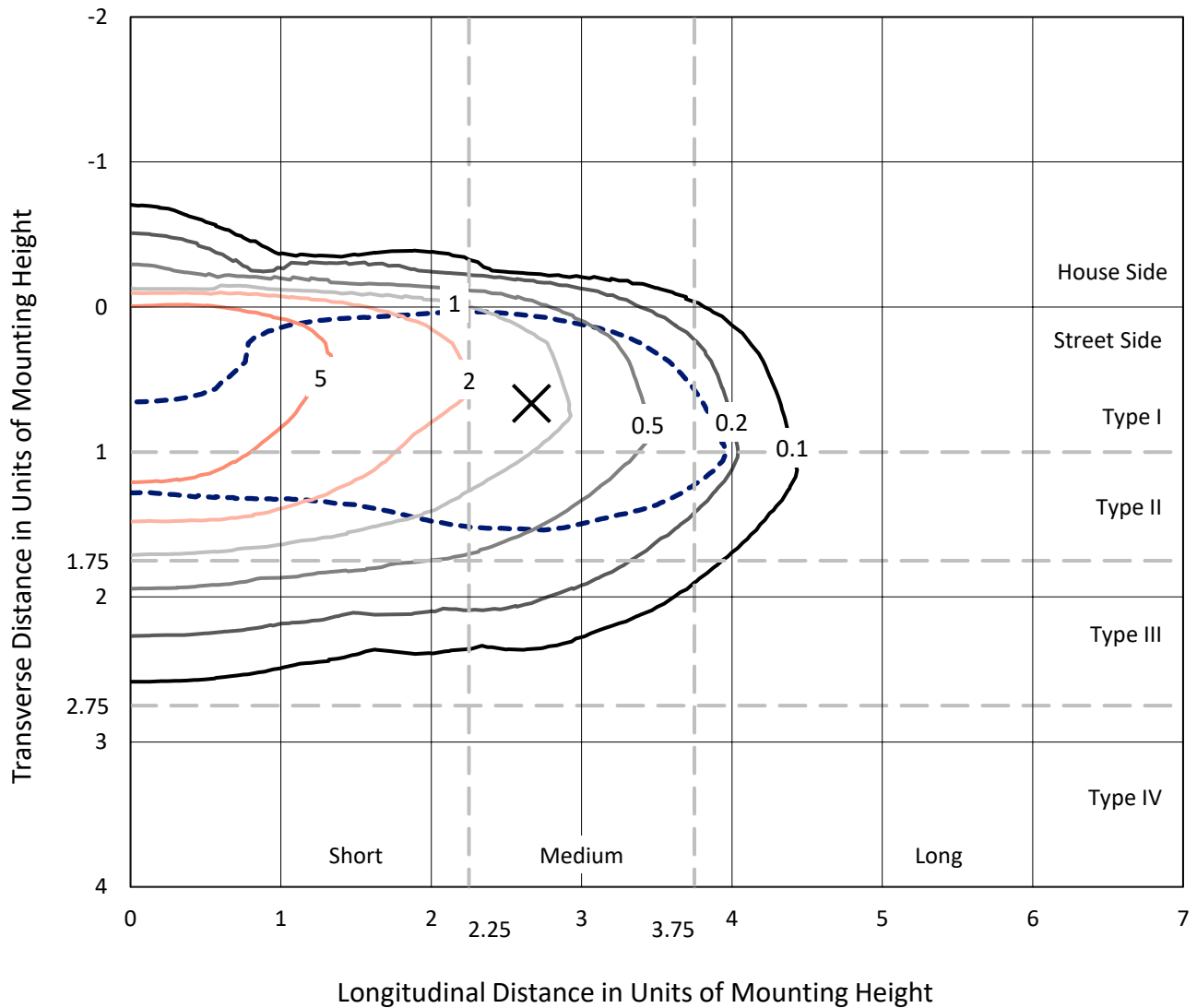
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

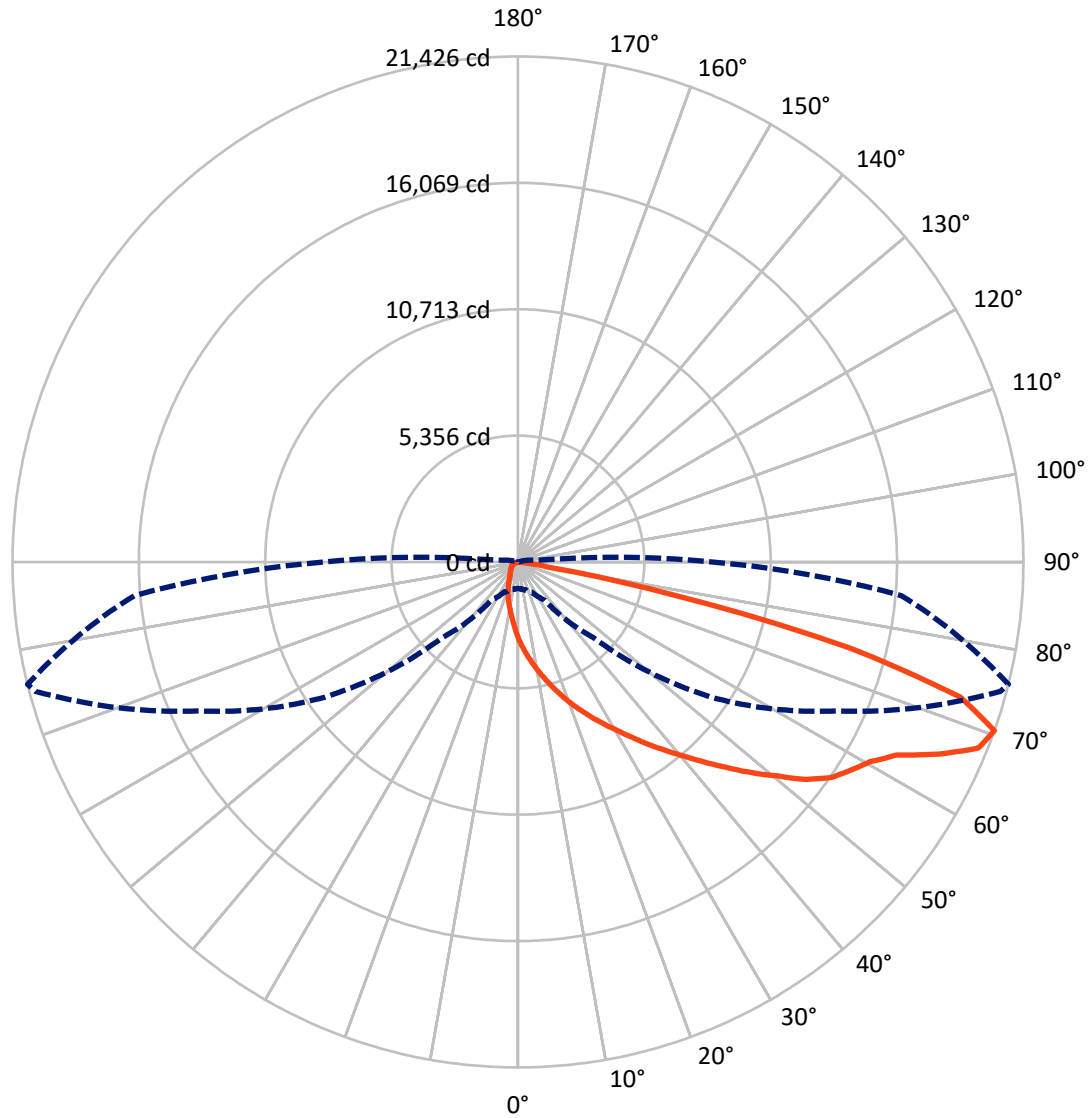
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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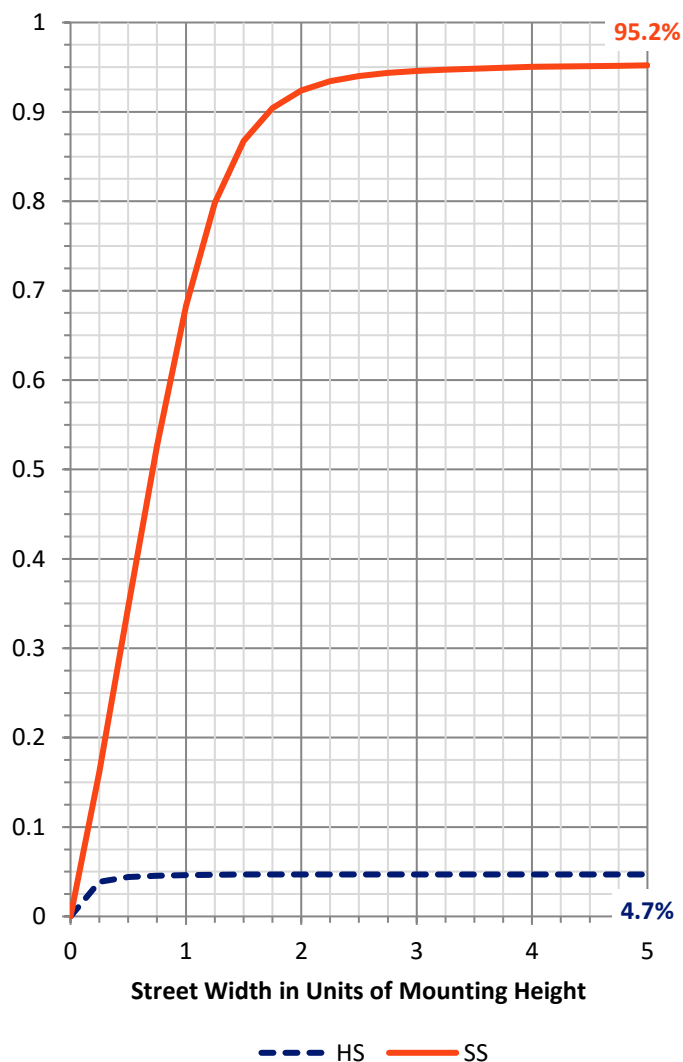
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.5	0.0	1141.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23062.5	0.0	23062.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	24204.0	0.0	24204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.3
10°-20°	985.1	4.1
20°-30°	1834.6	7.6
30°-40°	3245.0	13.4
40°-50°	4962.4	20.5
50°-60°	5626.1	23.2
60°-70°	4823.0	19.9
70°-80°	2336.0	9.7
80°-90°	86.7	0.4
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°	24204.0	100.0
0°-180°	24204.0	100.0

Coefficient of Utilization

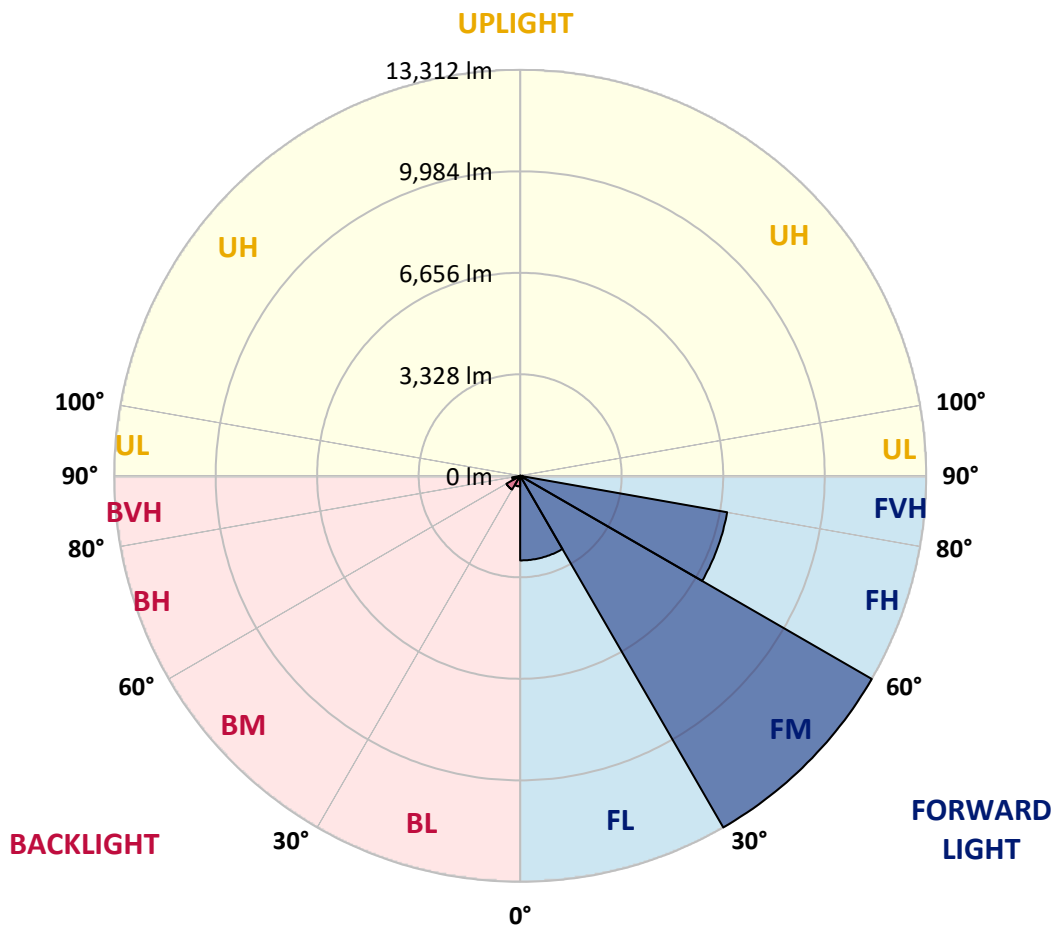


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.7	11.5			
FM (30°-60°)	13312.4	55.0			
FH (60°-80°)	6890.2	28.5			G3/7500
FVH (80°-90°)	85.2	0.4			G1/100
BL (0°-30°)	350.2	1.4	B1/500		
BM (30°-60°)	521.1	2.2	B1/1000		
BH (60°-80°)	268.8	1.1	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9
2.5°	4428.6	4404.4	4380.3	4287.6	4203.0	4126.4	3981.3	3791.9	3622.7	3586.4	3389.0
5°	5202.3	5174.1	5137.8	5045.2	4936.4	4807.4	4593.8	4303.7	4005.5	3941.0	3574.3
7.5°	5726.2	5702.0	5649.6	5605.3	5496.5	5371.6	5133.8	4795.3	4384.3	4303.7	3787.9
10°	6084.8	6068.7	6060.6	6024.4	5943.8	5843.0	5605.3	5250.7	4767.1	4674.4	4013.6
12.5°	6213.8	6213.8	6254.1	6314.5	6326.6	6294.4	6076.8	5722.1	5170.1	5073.4	4279.5
15°	6040.5	6060.6	6149.3	6342.7	6544.2	6677.2	6540.2	6209.7	5613.3	5508.6	4593.8
17.5°	5992.1	6012.3	6072.7	6242.0	6512.0	6866.6	6935.1	6681.2	6032.4	5943.8	4916.2
20°	6129.1	6149.3	6201.7	6346.7	6552.3	6910.9	7197.0	7136.6	6475.7	6383.0	5242.6
22.5°	6455.5	6467.6	6467.6	6580.5	6761.8	7027.8	7362.2	7567.7	6931.0	6830.3	5565.0
25°	7156.7	7132.5	7035.8	6979.4	7096.3	7313.9	7571.8	7946.5	7438.8	7301.8	5911.5
27.5°	8075.5	8156.1	7922.3	7652.4	7563.7	7688.6	7865.9	8281.0	7930.4	7785.3	6225.9
30°	9320.6	9288.4	8982.2	8595.3	8212.5	8168.2	8228.6	8567.1	8422.0	8285.0	6576.4
32.5°	10344.2	10404.6	10082.3	9610.8	9038.6	8768.6	8704.1	8909.6	8945.9	8857.2	6991.5
35°	11395.9	11460.4	11146.1	10622.2	9941.2	9489.9	9304.5	9332.7	9594.7	9481.8	7426.7
37.5°	12338.9	12395.3	12085.0	11549.1	10868.0	10316.0	10050.0	9832.4	10223.3	10122.6	7886.1
40°	13056.2	13064.2	12854.7	12375.1	11730.4	11158.2	10856.0	10428.8	10888.2	10819.7	8365.6
42.5°	13563.9	13580.0	13426.9	13015.9	12419.5	11887.5	11641.7	11134.0	11653.8	11593.4	8921.7
45°	13801.6	13829.9	13813.7	13434.9	12939.3	12479.9	12399.3	11883.5	12492.0	12435.6	9562.4
47.5°	13576.0	13576.0	13781.5	13729.1	13273.8	12967.5	13060.2	12665.3	13402.7	13350.3	10215.2
50°	12637.1	12649.2	13068.2	13668.7	13402.7	13334.2	13624.3	13430.9	14228.8	14261.0	10997.0
52.5°	10170.9	10150.8	11565.2	12717.7	13314.1	13499.4	14144.2	14212.7	15220.1	15316.8	11774.7
55°	7600.0	7587.9	8941.9	11033.3	12693.5	13414.8	14434.3	14909.8	16066.3	16126.8	12355.0
57.5°	6016.3	5984.1	6729.6	8893.5	11291.2	13036.0	14446.4	15042.8	16537.8	16642.6	12919.1
60°	4626.1	4597.9	5154.0	6616.7	9304.5	12028.6	14099.8	15050.8	16993.2	17178.5	13676.7
62.5°	3308.4	3340.6	3767.7	4747.0	7156.7	10606.1	13648.5	15163.7	17803.1	18012.7	14752.6
65°	2232.4	2216.3	2570.9	3231.8	5089.5	8692.0	12955.4	15401.4	19261.9	19628.6	16042.1
67.5°	1551.4	1563.5	1724.7	2103.5	3231.8	6673.1	11802.9	15534.4	20769.0	21055.1	16944.8
70°	1120.3	1136.4	1225.0	1414.4	1974.5	4525.3	9977.5	14925.9	21176.0	21425.8	16316.2
72.5°	737.4	769.7	902.6	1003.4	1261.3	2832.9	7350.1	12858.7	19423.0	19608.4	13688.8
75°	398.9	407.0	580.3	749.5	898.6	1765.0	4384.3	8671.9	14531.0	14470.6	9026.5
77.5°	310.3	322.4	358.6	535.9	604.5	971.2	1732.8	3916.8	6882.7	6697.3	3078.7
80°	189.4	197.5	249.8	318.3	423.1	564.2	507.7	1063.8	1398.3	1309.6	451.3
82.5°	112.8	120.9	149.1	266.0	334.5	266.0	177.3	257.9	261.9	257.9	112.8
85°	20.1	20.1	104.8	185.4	177.3	76.6	104.8	84.6	76.6	80.6	24.2
87.5°	0.0	0.0	40.3	56.4	80.6	28.2	40.3	20.1	20.1	20.1	12.1
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°	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9	3239.9
2.5°	3268.1	3131.1	2849.0	2603.2	2357.4	2176.0	2039.0	1898.0	1849.6	1789.2	1756.9
5°	3324.5	3054.5	2494.4	2047.1	1668.3	1378.1	1192.8	1080.0	1007.4	955.0	942.9
7.5°	3409.1	2994.1	2208.3	1603.8	1188.8	898.6	745.5	668.9	628.6	604.5	596.4
10°	3509.8	2941.7	1926.2	1249.2	838.2	632.7	548.0	515.8	499.7	491.6	487.6
12.5°	3650.9	2921.5	1688.4	963.1	632.7	519.8	475.5	455.4	443.3	431.2	427.1
15°	3836.3	2929.6	1470.8	745.5	523.9	463.4	427.1	407.0	390.9	378.8	378.8
17.5°	4029.7	2941.7	1257.3	604.5	475.5	423.1	382.8	354.6	342.5	330.4	326.4
20°	4211.0	2937.6	1051.7	515.8	431.2	378.8	338.5	310.3	290.1	278.0	278.0
22.5°	4384.3	2913.5	858.3	463.4	394.9	334.5	290.1	261.9	245.8	233.7	233.7
25°	4569.7	2865.1	701.2	423.1	350.6	294.2	249.8	221.6	209.5	197.5	197.5
27.5°	4714.7	2784.5	572.2	386.8	310.3	253.9	213.6	189.4	177.3	169.2	169.2
30°	4871.9	2667.6	475.5	346.6	270.0	217.6	181.3	161.2	149.1	145.1	145.1
32.5°	5045.2	2538.7	407.0	306.3	229.7	185.4	153.1	141.0	128.9	124.9	124.9
35°	5246.6	2425.9	366.7	266.0	201.5	157.2	133.0	120.9	112.8	112.8	112.8
37.5°	5476.3	2309.0	330.4	233.7	173.3	133.0	112.8	108.8	104.8	100.7	100.7
40°	5726.2	2184.1	298.2	205.5	149.1	112.8	96.7	96.7	92.7	92.7	92.7
42.5°	6008.2	2075.3	270.0	181.3	128.9	96.7	84.6	84.6	80.6	80.6	80.6
45°	6314.5	1974.5	245.8	161.2	112.8	84.6	76.6	72.5	68.5	68.5	68.5
47.5°	6677.2	1918.1	225.7	141.0	96.7	72.5	64.5	60.4	56.4	52.4	52.4
50°	7140.6	1942.3	205.5	116.9	84.6	60.4	52.4	48.4	44.3	40.3	40.3
52.5°	7507.3	1930.2	177.3	100.7	68.5	48.4	40.3	36.3	32.2	28.2	28.2
55°	7773.2	1881.9	153.1	84.6	52.4	40.3	32.2	24.2	20.1	20.1	20.1
57.5°	8035.2	1833.5	128.9	68.5	40.3	28.2	20.1	16.1	16.1	16.1	16.1
60°	8442.2	1765.0	112.8	56.4	32.2	20.1	12.1	12.1	8.1	8.1	8.1
62.5°	8937.8	1680.4	92.7	48.4	24.2	16.1	8.1	8.1	0.0	0.0	0.0
65°	9481.8	1531.3	76.6	36.3	20.1	12.1	8.1	0.0	0.0	0.0	0.0
67.5°	9356.9	1229.1	64.5	24.2	16.1	8.1	4.0	0.0	0.0	0.0	0.0
70°	8277.0	830.1	52.4	20.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0
72.5°	6483.8	491.6	36.3	16.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
75°	4150.6	245.8	24.2	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	1390.2	120.9	16.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	197.5	40.3	8.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.3	16.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.0	0.0	0.0	0.0	0.0	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)