

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: P381321

Luminaire Tested: **PRV-XL-PA3B-740-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
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-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21843 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

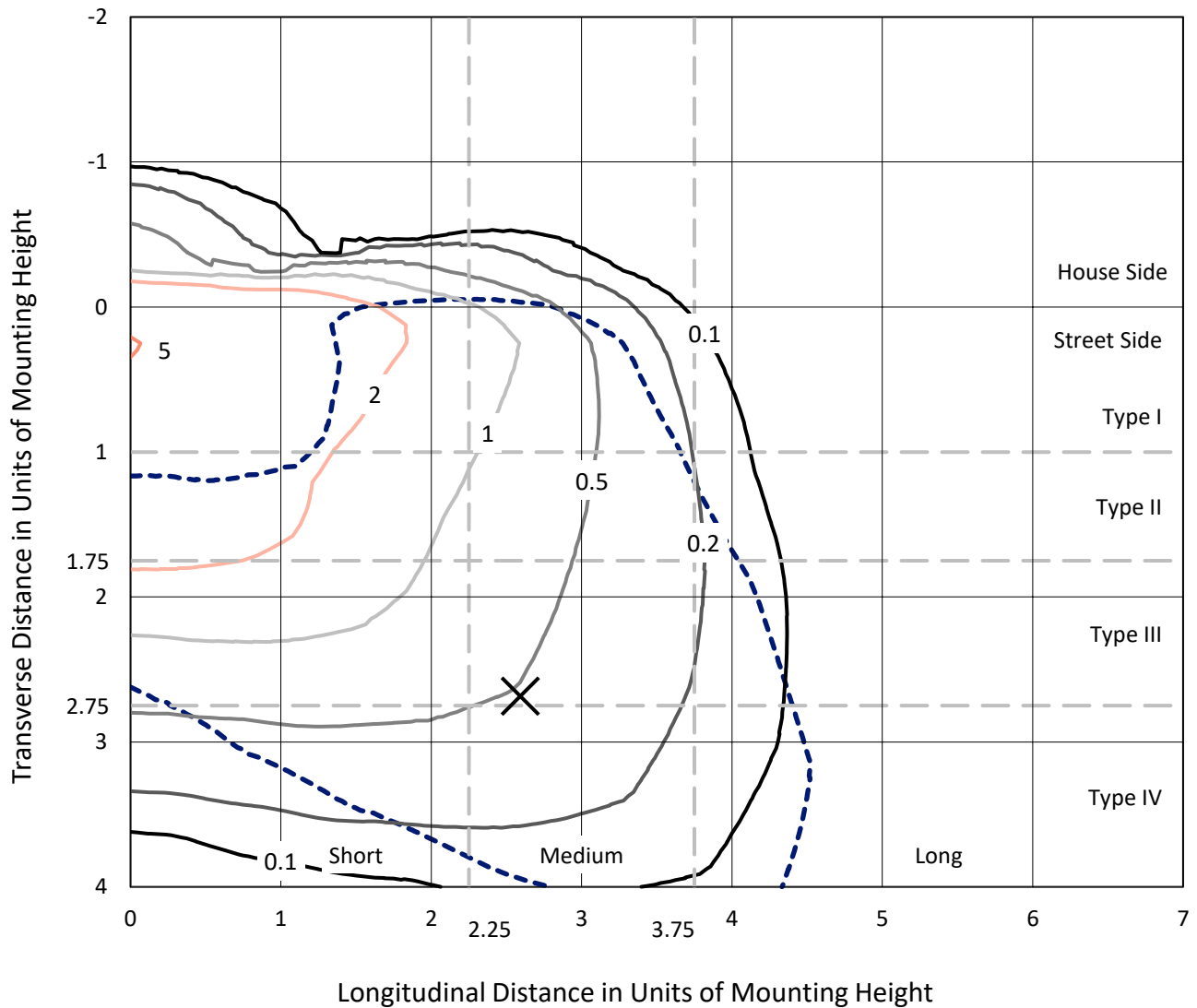
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

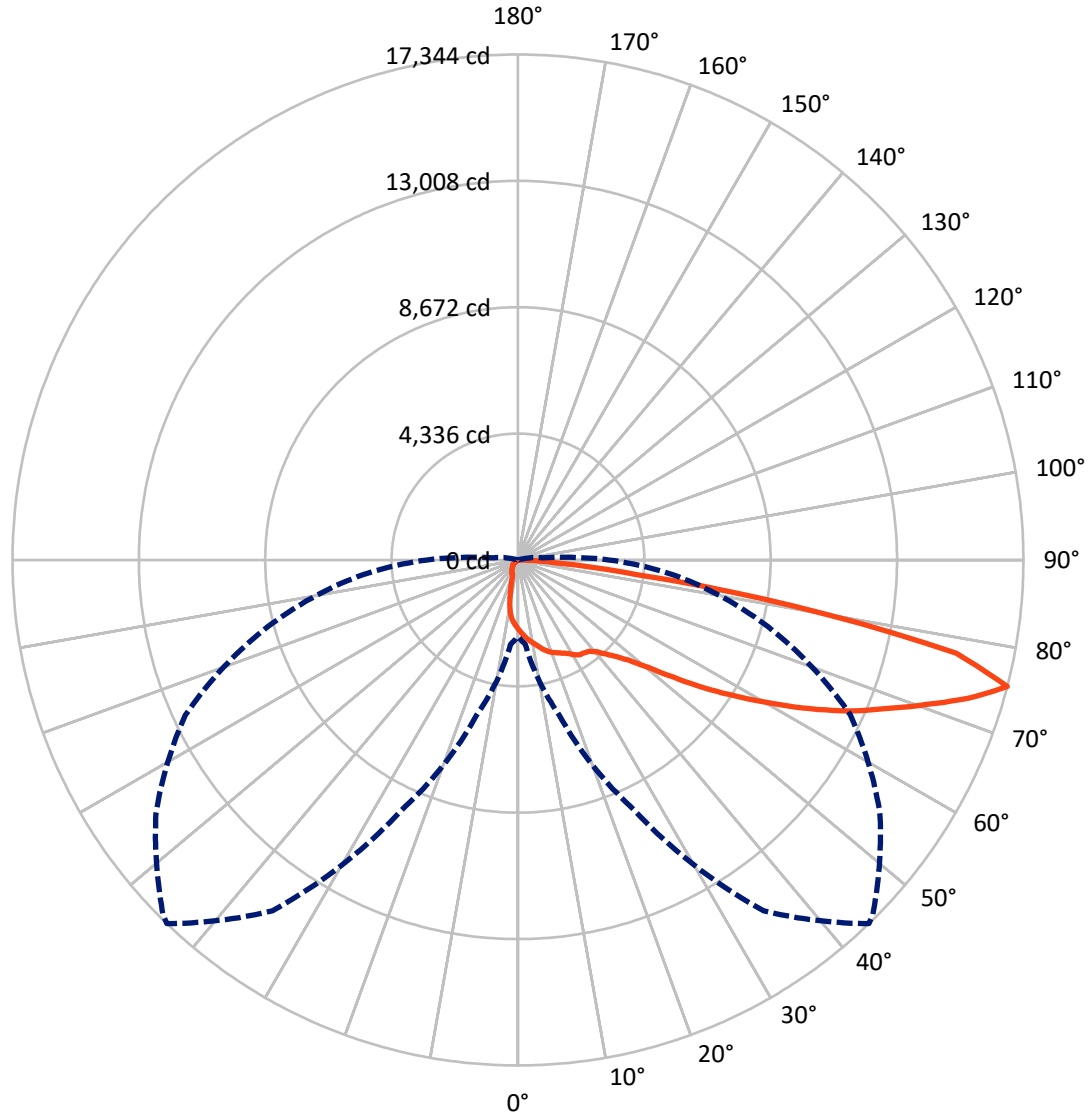
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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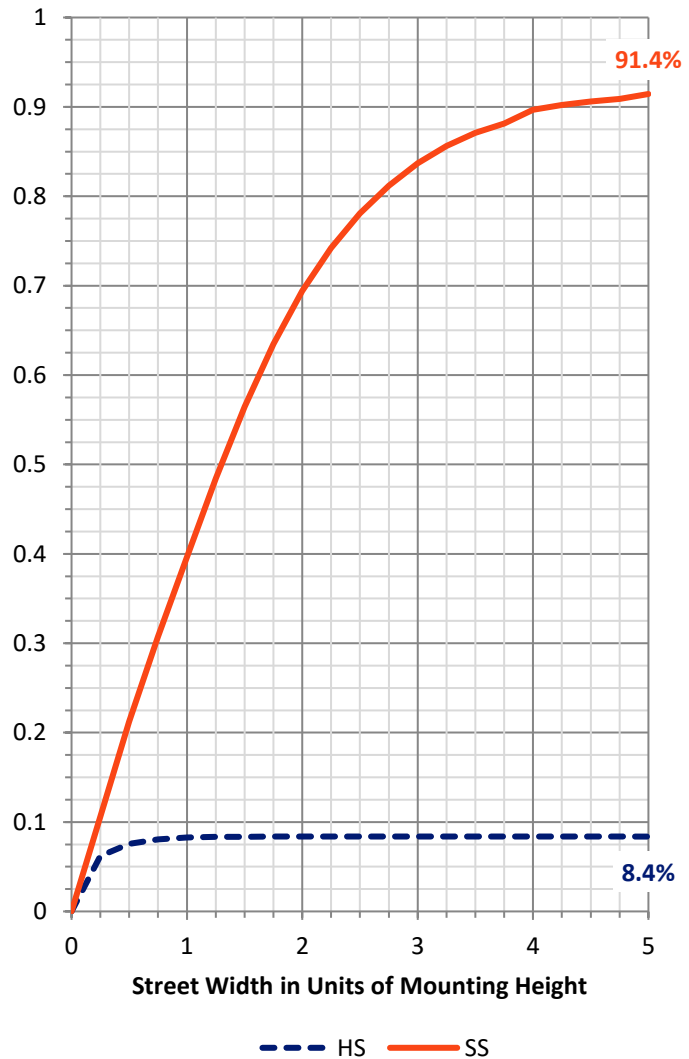
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.1	0.0	1842.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20000.9	0.0	20000.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	21843.0	0.0	21843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.0
10°-20°	628.3	2.9
20°-30°	1036.9	4.7
30°-40°	1504.9	6.9
40°-50°	2446.3	11.2
50°-60°	4312.5	19.7
60°-70°	6198.0	28.4
70°-80°	4963.2	22.7
80°-90°	528.8	2.4
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°	21843.0	100.0
0°-180°	21843.0	100.0

Coefficient of Utilization

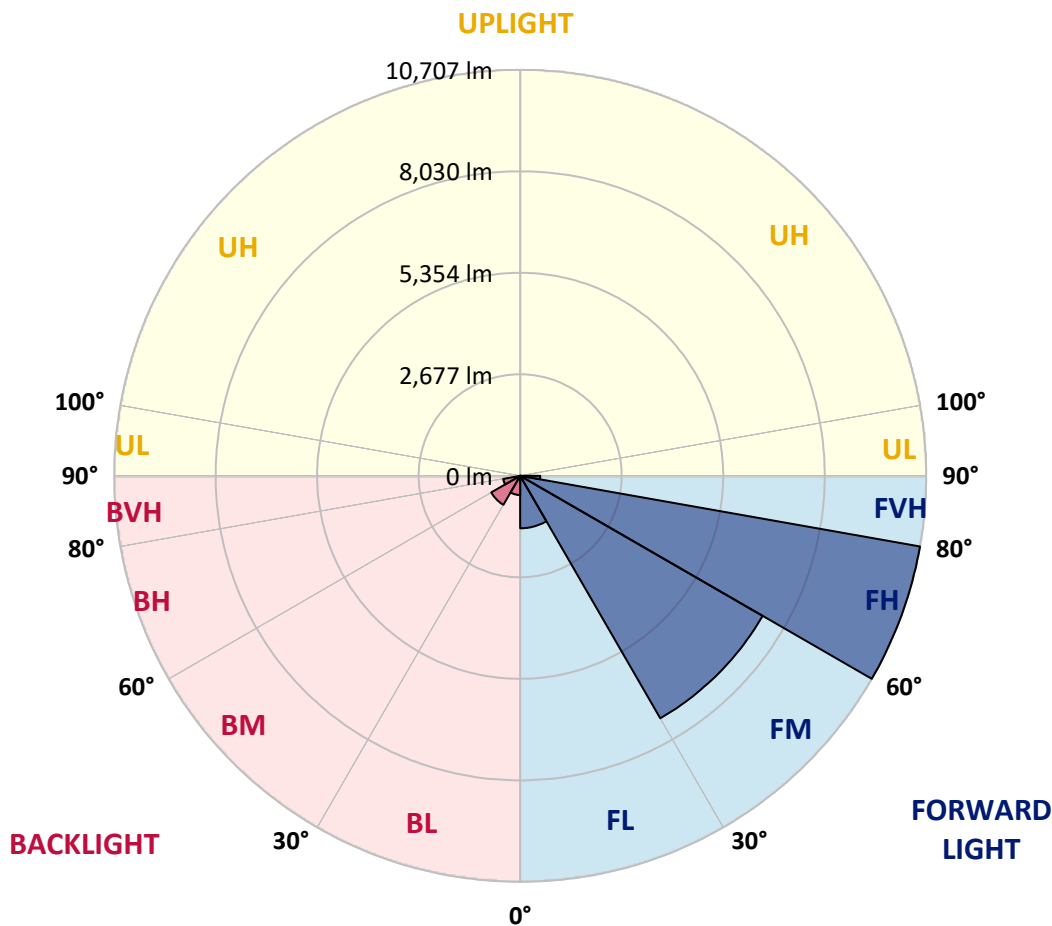


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.3	6.3			
FM (30°-60°)	7383.1	33.8			
FH (60°-80°)	10707.1	49.0			G4/12000
FVH (80°-90°)	527.5	2.4			G4/750
BL (0°-30°)	506.1	2.3	B2/1000		
BM (30°-60°)	880.5	4.0	B1/1000		
BH (60°-80°)	454.1	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5
2.5°	2591.1	2587.1	2575.0	2554.8	2534.7	2514.5	2510.5	2478.3	2442.0	2413.8	2389.6
5°	2820.8	2816.8	2796.6	2752.3	2708.0	2655.6	2651.5	2575.0	2506.5	2429.9	2365.4
7.5°	3058.5	3050.5	3014.2	2945.7	2869.2	2788.6	2780.5	2667.7	2566.9	2466.2	2373.5
10°	3243.9	3235.9	3183.5	3102.9	2998.1	2897.4	2885.3	2768.4	2667.7	2538.7	2413.8
12.5°	3425.3	3409.1	3340.6	3252.0	3123.0	3026.3	3014.2	2893.3	2772.4	2639.5	2486.3
15°	3594.5	3574.4	3509.9	3397.0	3260.0	3167.4	3159.3	3030.3	2905.4	2752.3	2583.0
17.5°	3711.4	3703.3	3626.7	3501.8	3368.8	3292.3	3284.2	3151.2	3026.3	2865.1	2683.8
20°	3771.8	3771.8	3699.3	3562.3	3441.4	3389.0	3376.9	3252.0	3131.1	2978.0	2788.6
22.5°	3783.9	3796.0	3739.6	3590.5	3501.8	3457.5	3449.4	3340.6	3223.8	3082.7	2905.4
25°	3808.1	3808.1	3779.9	3618.7	3554.2	3542.1	3538.1	3441.4	3336.6	3195.6	3022.3
27.5°	3836.3	3836.3	3816.1	3659.0	3634.8	3630.8	3626.7	3582.4	3497.8	3332.6	3159.3
30°	3908.8	3912.8	3896.7	3739.6	3723.5	3767.8	3775.8	3751.7	3646.9	3441.4	3300.3
32.5°	4090.2	4053.9	4009.6	3796.0	3824.2	3880.6	3884.6	3836.3	3723.5	3558.2	3469.6
35°	4545.5	4331.9	4130.5	3844.3	3856.4	3912.8	3920.9	3916.9	3848.4	3707.3	3663.0
37.5°	4968.6	4666.4	4380.3	3957.2	3916.9	3977.3	3993.4	4061.9	4009.6	3912.8	3924.9
40°	5214.4	5097.6	4896.1	4267.5	4037.8	4130.5	4146.6	4251.3	4231.2	4190.9	4267.5
42.5°	5972.0	5980.1	5762.5	4730.9	4259.4	4408.5	4428.6	4513.3	4541.5	4561.6	4747.0
45°	6850.5	6878.7	6826.3	5565.0	4678.5	4726.8	4755.1	4867.9	4972.7	5101.6	5440.1
47.5°	7906.3	7882.1	7688.7	6584.5	5407.9	5137.9	5158.0	5375.6	5557.0	5839.0	6322.6
50°	8841.2	8901.6	8534.9	7535.6	6435.4	5786.7	5766.5	5980.1	6306.5	6701.4	7309.9
52.5°	9784.1	9695.5	9199.8	8478.5	7652.4	6669.2	6608.7	6725.6	7185.0	7652.4	8277.0
55°	10034.0	10042.0	9872.8	9510.1	8667.9	7741.1	7640.3	7632.3	8204.5	8522.8	9292.5
57.5°	10525.6	10545.7	10586.0	10658.6	10259.6	8813.0	8708.2	8595.4	9151.5	9336.8	10312.0
60°	11025.3	11049.5	11295.3	11686.2	11420.2	9969.5	9856.7	9590.7	9901.0	10150.8	11383.9
62.5°	10960.8	11130.1	11843.3	12621.0	12588.8	11238.9	11097.8	10457.1	10654.5	10872.2	12367.2
65°	9897.0	10078.3	11682.1	12878.9	13761.5	12492.1	12262.4	11351.7	11363.8	11625.7	13314.2
67.5°	8946.0	9143.4	10674.7	12770.1	14535.2	13616.4	13378.6	12250.3	12060.9	12496.1	13821.9
70°	8397.9	8595.4	9872.8	12431.6	14752.8	14861.6	14656.0	13277.9	12891.0	13290.0	13253.7
72.5°	6572.5	6882.7	8849.2	11786.9	14986.5	16195.4	16034.2	14579.5	13596.2	12459.9	10090.4
75°	2619.3	2905.4	5524.7	9485.9	14692.3	17343.9	17218.9	15163.8	12584.8	8897.6	5166.1
77.5°	789.8	846.2	1535.3	4690.6	10771.4	15377.4	15337.1	12750.0	8905.7	4130.5	1410.4
80°	261.9	290.1	471.5	1293.5	4916.2	9606.8	9788.2	8123.9	4045.8	947.0	286.1
82.5°	108.8	120.9	237.8	519.8	1740.8	4138.5	4078.1	3638.8	1410.4	588.3	104.8
85°	28.2	36.3	108.8	298.2	636.7	1426.5	1499.1	1221.0	797.9	487.6	32.2
87.5°	0.0	0.0	52.4	120.9	286.1	431.2	451.3	370.7	451.3	366.7	16.1
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°	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5	2377.5
2.5°	2369.5	2349.3	2313.1	2288.9	2256.6	2248.6	2232.5	2212.3	2208.3	2188.1	2192.2
5°	2329.2	2296.9	2232.5	2188.1	2135.7	2119.6	2091.4	2071.3	2055.2	2026.9	2031.0
7.5°	2321.1	2272.8	2184.1	2099.5	2014.9	1954.4	1869.8	1801.3	1744.9	1684.4	1696.5
10°	2349.3	2288.9	2164.0	2047.1	1894.0	1700.5	1478.9	1333.8	1261.3	1188.8	1196.8
12.5°	2405.7	2333.2	2172.0	1994.7	1684.4	1354.0	1047.7	850.3	797.9	765.6	769.7
15°	2490.4	2401.7	2196.2	1894.0	1402.3	979.2	697.1	612.5	632.7	644.8	644.8
17.5°	2579.0	2478.3	2216.3	1712.6	1084.0	685.1	568.2	560.1	588.3	616.5	616.5
20°	2687.8	2558.9	2220.4	1482.9	781.8	556.1	536.0	536.0	556.1	588.3	588.3
22.5°	2792.6	2647.5	2184.1	1221.0	596.4	515.8	515.8	515.8	527.9	560.1	564.2
25°	2917.5	2756.3	2107.5	943.0	511.8	491.6	491.6	495.7	503.7	531.9	536.0
27.5°	3050.5	2869.2	1978.6	689.1	467.4	463.4	467.4	471.5	475.5	503.7	511.8
30°	3203.6	2994.1	1813.4	515.8	427.1	427.1	439.2	447.3	447.3	471.5	479.5
32.5°	3380.9	3159.3	1615.9	427.1	386.9	382.8	403.0	415.1	415.1	435.2	443.3
35°	3602.6	3328.5	1378.2	378.8	354.6	346.6	354.6	374.8	382.8	398.9	403.0
37.5°	3896.7	3530.0	1124.3	350.6	330.4	314.3	314.3	318.3	334.5	350.6	354.6
40°	4271.5	3751.7	874.4	330.4	306.3	290.1	278.0	274.0	270.0	282.1	290.1
42.5°	4743.0	4001.5	652.8	310.3	286.1	261.9	245.8	229.7	209.5	205.5	209.5
45°	5347.4	4307.8	483.6	294.2	274.0	237.8	209.5	181.3	145.1	133.0	137.0
47.5°	6060.7	4626.1	378.8	278.0	266.0	209.5	173.3	124.9	88.7	80.6	84.6
50°	6818.3	4932.4	322.4	257.9	249.8	181.3	124.9	76.6	52.4	52.4	56.4
52.5°	7463.0	5105.6	294.2	241.8	225.7	149.1	80.6	44.3	32.2	32.2	36.3
55°	8087.6	5198.3	274.0	225.7	193.4	104.8	44.3	28.2	20.1	20.1	20.1
57.5°	8732.4	5238.6	249.8	205.5	153.1	64.5	24.2	16.1	12.1	12.1	12.1
60°	9304.6	5162.1	213.6	169.2	100.7	32.2	12.1	12.1	8.1	4.0	4.0
62.5°	9784.1	5017.0	149.1	120.9	60.4	16.1	8.1	4.0	0.0	0.0	0.0
65°	10078.3	4783.3	96.7	80.6	36.3	12.1	4.0	0.0	0.0	0.0	0.0
67.5°	9993.7	4344.0	60.4	52.4	16.1	8.1	4.0	0.0	0.0	0.0	0.0
70°	9018.5	3562.3	44.3	32.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	6499.9	2409.8	32.2	20.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3127.1	858.3	20.1	16.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	765.6	189.4	12.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	169.2	36.3	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.4	16.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	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)