

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: P381385

Luminaire Tested: **PRV-XL-PA3B-740-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
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-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21347 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

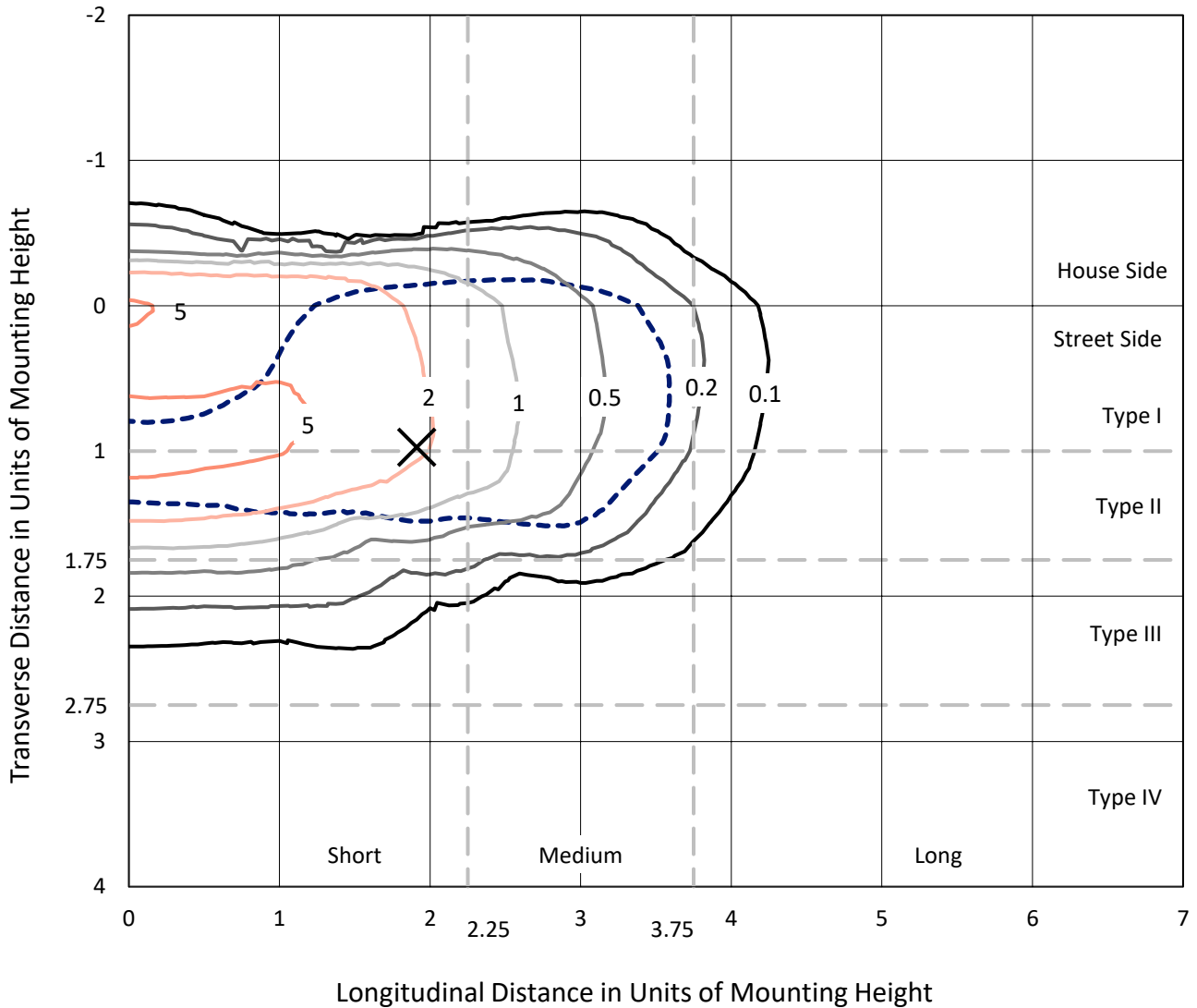
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

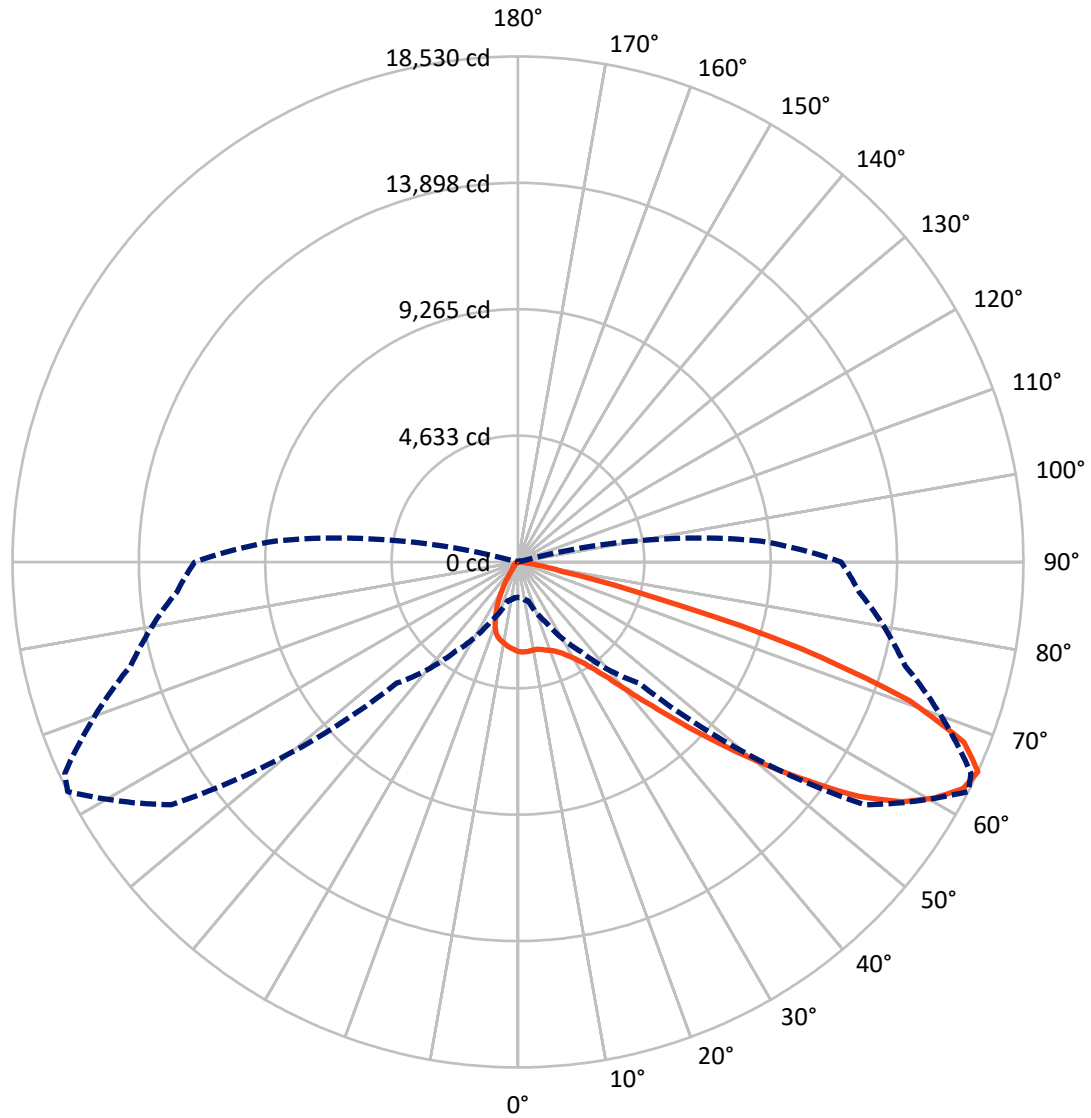
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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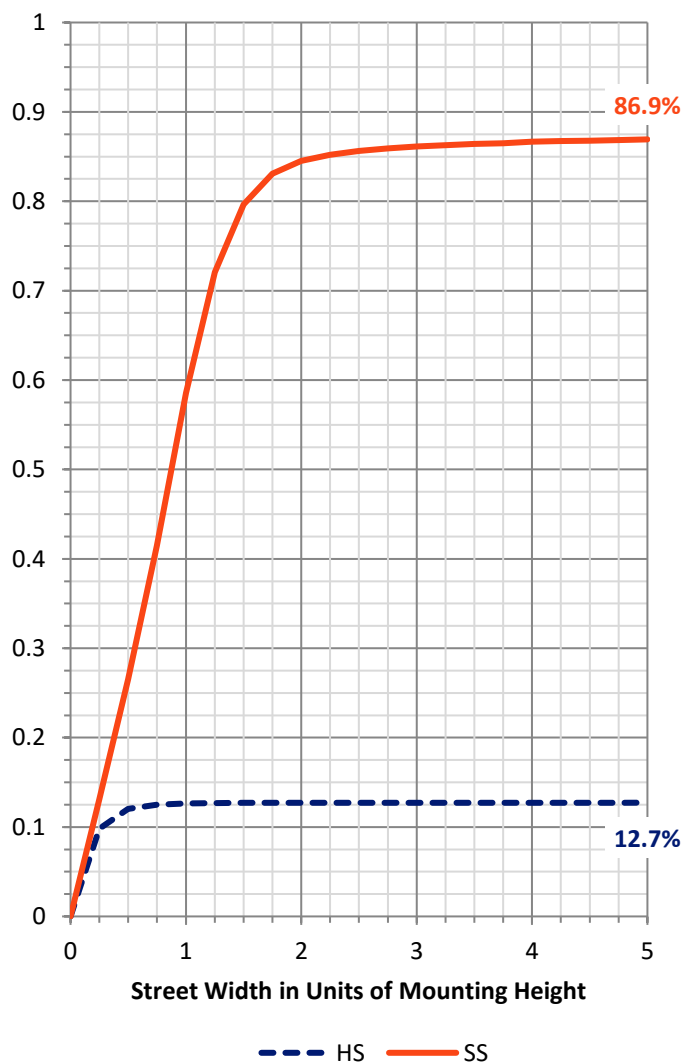
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2747.3	0.0	2747.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	18599.7	0.0	18599.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	21347.0	0.0	21347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	1.4
10°-20°	740.2	3.5
20°-30°	1097.2	5.1
30°-40°	2037.2	9.5
40°-50°	4315.6	20.2
50°-60°	5967.4	28.0
60°-70°	4777.1	22.4
70°-80°	1984.8	9.3
80°-90°	127.4	0.6
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°	21347.0	100.0
0°-180°	21347.0	100.0

Coefficient of Utilization

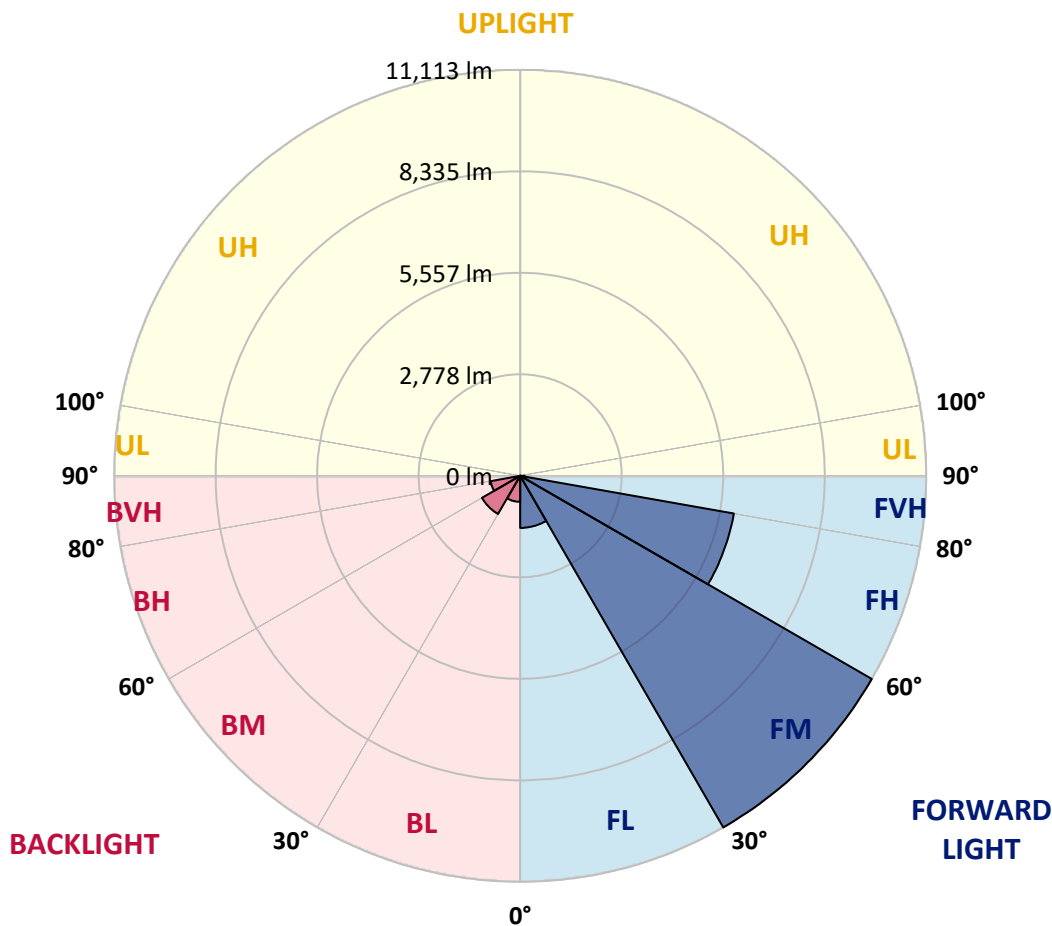


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.5	6.7			
FM (30°-60°)	11113.3	52.1			
FH (60°-80°)	5939.2	27.8			G3/7500
FVH (80°-90°)	121.6	0.6			G2/225
BL (0°-30°)	712.0	3.3	B2/1000		
BM (30°-60°)	1206.9	5.7	B2/2500		
BH (60°-80°)	822.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.8	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5
2.5°	3344.9	3336.9	3328.8	3324.8	3324.8	3320.8	3304.6	3300.6	3292.5	3284.5	3276.4
5°	3312.7	3300.6	3296.6	3300.6	3304.6	3312.7	3304.6	3304.6	3296.6	3288.5	3272.4
7.5°	3232.1	3224.0	3228.1	3240.2	3244.2	3272.4	3276.4	3288.5	3288.5	3280.5	3268.4
10°	3135.4	3131.3	3131.3	3151.5	3171.6	3211.9	3240.2	3272.4	3276.4	3276.4	3256.3
12.5°	3062.8	3058.8	3070.9	3095.1	3135.4	3187.8	3236.1	3284.5	3292.5	3296.6	3264.3
15°	3018.5	3018.5	3034.6	3083.0	3139.4	3211.9	3268.4	3332.8	3340.9	3336.9	3292.5
17.5°	2978.2	2982.2	3014.5	3095.1	3159.6	3256.3	3324.8	3397.3	3401.4	3397.3	3324.8
20°	2962.1	2970.1	3018.5	3123.3	3195.8	3304.6	3393.3	3465.8	3469.9	3453.7	3357.0
22.5°	3006.4	3010.4	3070.9	3183.7	3252.2	3373.1	3486.0	3554.5	3558.5	3534.3	3405.4
25°	3159.6	3159.6	3211.9	3308.7	3369.1	3490.0	3610.9	3691.5	3691.5	3663.3	3514.2
27.5°	3518.2	3486.0	3473.9	3502.1	3522.3	3651.2	3780.2	3880.9	3876.9	3836.6	3655.3
30°	4211.4	4130.8	4001.8	3856.8	3784.2	3872.9	3993.8	4122.7	4118.7	4054.2	3828.5
32.5°	5376.1	5259.2	4952.9	4570.1	4259.8	4159.0	4271.8	4412.9	4416.9	4340.4	4106.6
35°	7008.2	6822.9	6274.8	5742.8	5033.5	4650.7	4682.9	4836.1	4884.4	4844.1	4574.1
37.5°	8580.0	8410.7	7886.8	7149.3	6186.1	5404.3	5267.3	5400.3	5456.7	5456.7	5170.5
40°	10163.8	9966.3	9502.8	8761.3	7745.7	6581.1	6089.4	6198.2	6258.7	6270.8	5896.0
42.5°	11433.2	11304.3	10949.6	10373.3	9422.2	8644.4	7274.2	7213.8	7270.2	7225.9	6738.2
45°	12311.8	12211.0	11965.2	11747.6	11284.1	10893.2	8858.0	8451.0	8487.3	8334.1	7685.3
47.5°	12493.1	12380.3	12327.9	12630.2	12960.6	13057.3	10804.6	9922.0	9885.7	9547.2	8668.6
50°	11703.3	11715.3	11908.8	12771.2	14149.5	15020.0	13061.4	11582.3	11449.4	10695.7	9583.4
52.5°	9998.5	10192.0	10679.6	12078.0	14512.2	16446.6	15318.2	13343.5	13137.9	11812.1	10268.6
55°	7822.3	8072.2	8874.2	10482.1	13754.5	17083.4	17220.4	15173.1	14705.6	12650.3	10800.5
57.5°	5815.4	5891.9	6826.9	8293.8	11961.2	16458.7	18195.7	16583.6	15983.2	13319.3	11328.5
60°	3623.0	3671.4	4658.7	6315.1	9059.5	14149.5	18195.7	17554.9	16982.6	13919.8	11812.1
62.5°	2252.8	2268.9	2639.7	4328.3	6157.9	10494.2	17442.0	18308.5	17849.1	14351.0	12227.2
65°	1297.7	1313.8	1487.1	2446.2	4005.9	6282.8	15515.7	18530.1	18324.6	14693.5	12549.6
67.5°	947.1	955.1	1023.6	1374.2	2619.5	3228.1	11654.9	17639.5	17897.4	14862.8	12541.5
70°	822.1	834.2	922.9	1072.0	1890.1	1982.8	5932.2	15233.6	15954.9	14621.0	12166.7
72.5°	632.7	648.8	781.8	1007.5	1386.3	1426.6	2148.0	10840.8	11933.0	13109.7	11139.0
75°	435.2	451.4	584.4	830.2	1144.5	1068.0	1180.8	4989.2	6294.9	8793.6	8479.2
77.5°	278.1	282.1	366.7	604.5	987.4	757.6	810.0	1628.1	2285.0	3977.7	4001.8
80°	185.4	189.4	225.7	390.9	677.0	701.2	499.7	753.6	826.2	1160.7	806.0
82.5°	112.8	112.8	153.1	245.8	411.1	580.3	326.4	394.9	423.2	447.3	209.6
85°	44.3	44.3	92.7	161.2	257.9	270.0	205.5	229.7	241.8	262.0	96.7
87.5°	12.1	12.1	52.4	88.7	112.8	124.9	124.9	112.8	120.9	149.1	48.4
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°	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5	3288.5
2.5°	3272.4	3260.3	3244.2	3228.1	3211.9	3199.9	3187.8	3187.8	3179.7	3167.6	3159.6
5°	3264.3	3244.2	3207.9	3179.7	3135.4	3103.1	3079.0	3058.8	3046.7	3018.5	3014.5
7.5°	3252.2	3228.1	3175.7	3119.3	3046.7	2990.3	2933.9	2893.6	2853.3	2821.0	2813.0
10°	3232.1	3203.9	3127.3	3046.7	2946.0	2841.2	2708.2	2555.0	2414.0	2333.4	2309.2
12.5°	3232.1	3195.8	3095.1	2986.3	2841.2	2583.3	2244.7	1906.2	1644.3	1527.4	1495.1
15°	3252.2	3203.9	3070.9	2921.8	2651.8	2127.9	1579.8	1132.4	846.3	757.6	737.5
17.5°	3272.4	3203.9	3034.6	2833.1	2305.2	1543.5	898.7	596.4	503.8	483.6	483.6
20°	3280.5	3195.8	2986.3	2667.9	1841.7	959.2	536.0	447.3	411.1	399.0	399.0
22.5°	3312.7	3199.9	2950.0	2430.1	1338.0	564.2	423.2	374.8	338.5	326.4	326.4
25°	3393.3	3248.2	2958.1	2127.9	858.4	427.2	358.7	310.3	274.0	257.9	257.9
27.5°	3522.3	3357.0	3002.4	1777.2	540.0	366.7	302.3	249.9	221.7	205.5	205.5
30°	3667.3	3477.9	3022.5	1374.2	403.0	310.3	245.8	197.5	177.3	165.2	161.2
32.5°	3921.2	3687.5	3006.4	943.0	330.5	262.0	197.5	157.2	141.1	137.0	137.0
35°	4328.3	4054.2	2974.2	592.4	274.0	209.6	157.2	129.0	116.9	112.8	108.8
37.5°	4880.4	4590.2	2877.5	390.9	225.7	165.2	129.0	108.8	96.7	92.7	92.7
40°	5553.4	5202.8	2692.1	298.2	193.4	133.0	108.8	92.7	84.6	80.6	80.6
42.5°	6323.1	5883.9	2397.9	257.9	161.2	112.8	92.7	76.6	72.5	68.5	68.5
45°	7165.4	6597.2	1990.8	229.7	137.0	92.7	76.6	68.5	60.5	60.5	56.4
47.5°	8060.1	7314.5	1531.4	201.5	116.9	80.6	68.5	56.4	52.4	48.4	48.4
50°	8922.5	7955.3	1076.0	173.3	96.7	68.5	56.4	48.4	44.3	40.3	40.3
52.5°	9531.1	8342.2	761.7	149.1	80.6	60.5	44.3	36.3	32.2	32.2	32.2
55°	10018.7	8584.0	532.0	124.9	68.5	52.4	36.3	28.2	28.2	24.2	24.2
57.5°	10478.1	8741.2	390.9	104.8	56.4	40.3	28.2	20.2	20.2	16.1	16.1
60°	10953.7	8825.8	298.2	84.6	48.4	32.2	20.2	16.1	12.1	12.1	12.1
62.5°	11433.2	8878.2	229.7	68.5	40.3	24.2	16.1	12.1	8.1	4.0	4.0
65°	11852.4	8894.3	177.3	52.4	32.2	16.1	12.1	4.0	0.0	0.0	0.0
67.5°	11977.3	8708.9	137.0	40.3	24.2	12.1	8.1	0.0	0.0	0.0	0.0
70°	11638.8	8217.3	104.8	32.2	20.2	8.1	4.0	0.0	0.0	0.0	0.0
72.5°	10329.0	6891.4	80.6	20.2	16.1	8.1	4.0	0.0	0.0	0.0	0.0
75°	7391.1	3675.4	56.4	16.1	12.1	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	3401.4	1422.6	40.3	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
80°	665.0	354.6	16.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	153.1	60.5	8.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.4	20.2	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	8.1	4.0	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)