

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: P381320

Luminaire Tested: **PRV-XL-PA3A-740-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381320
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-PA3A-740-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 750mA 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: 17617 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

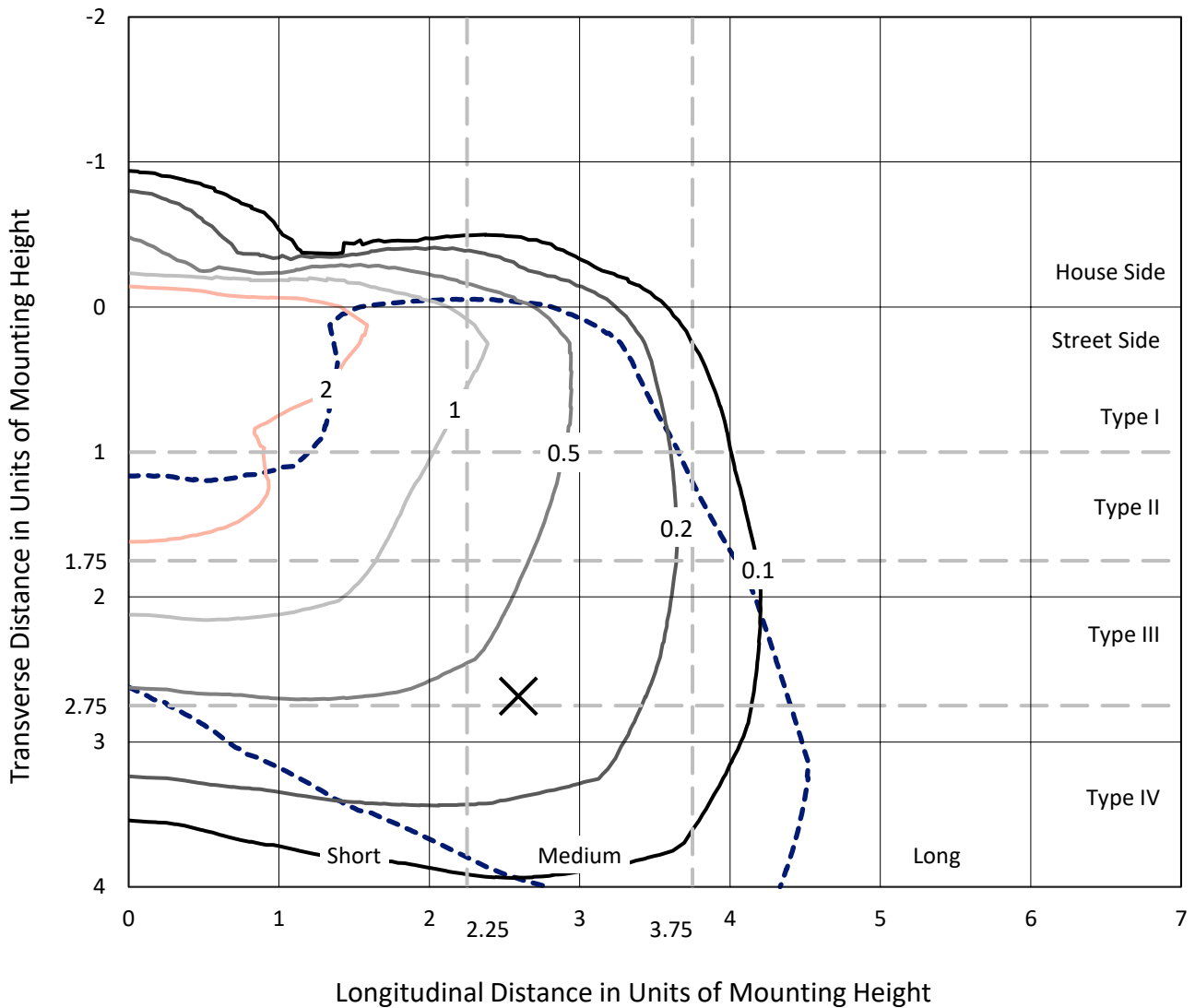
Input Watts (W): 172
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

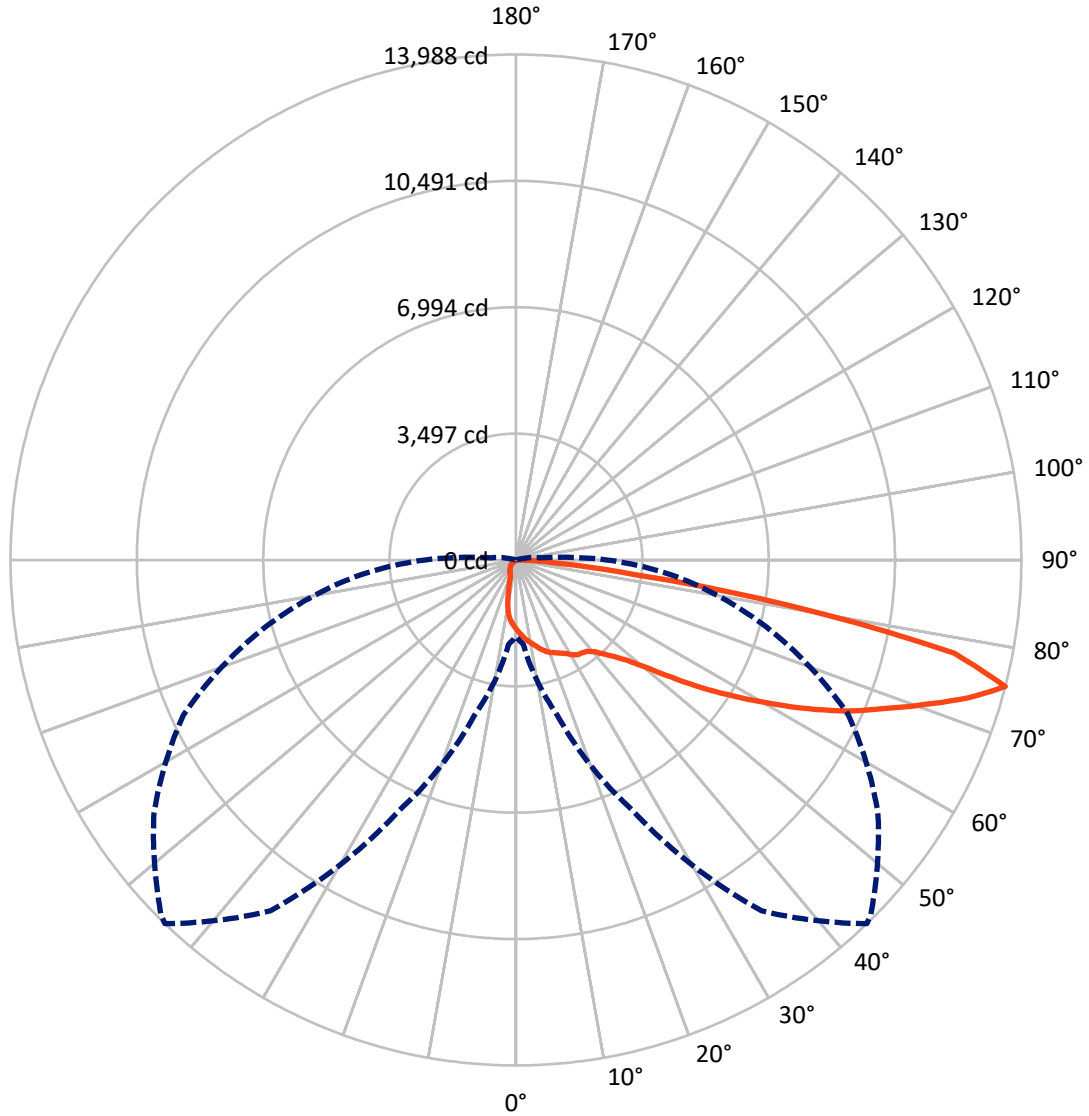
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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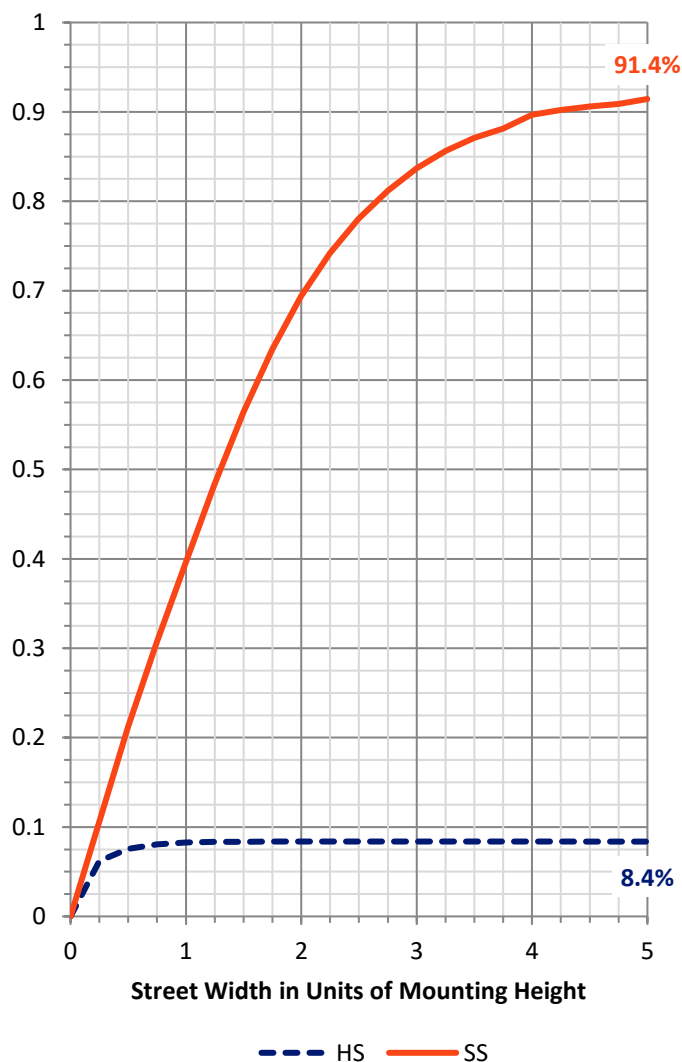
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1485.7	0.0	1485.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16131.3	0.0	16131.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	17617.0	0.0	17617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	1.0
10°-20°	506.7	2.9
20°-30°	836.3	4.7
30°-40°	1213.7	6.9
40°-50°	1973.0	11.2
50°-60°	3478.2	19.7
60°-70°	4998.9	28.4
70°-80°	4003.0	22.7
80°-90°	426.5	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°	17617.0	100.0
0°-180°	17617.0	100.0

Coefficient of Utilization



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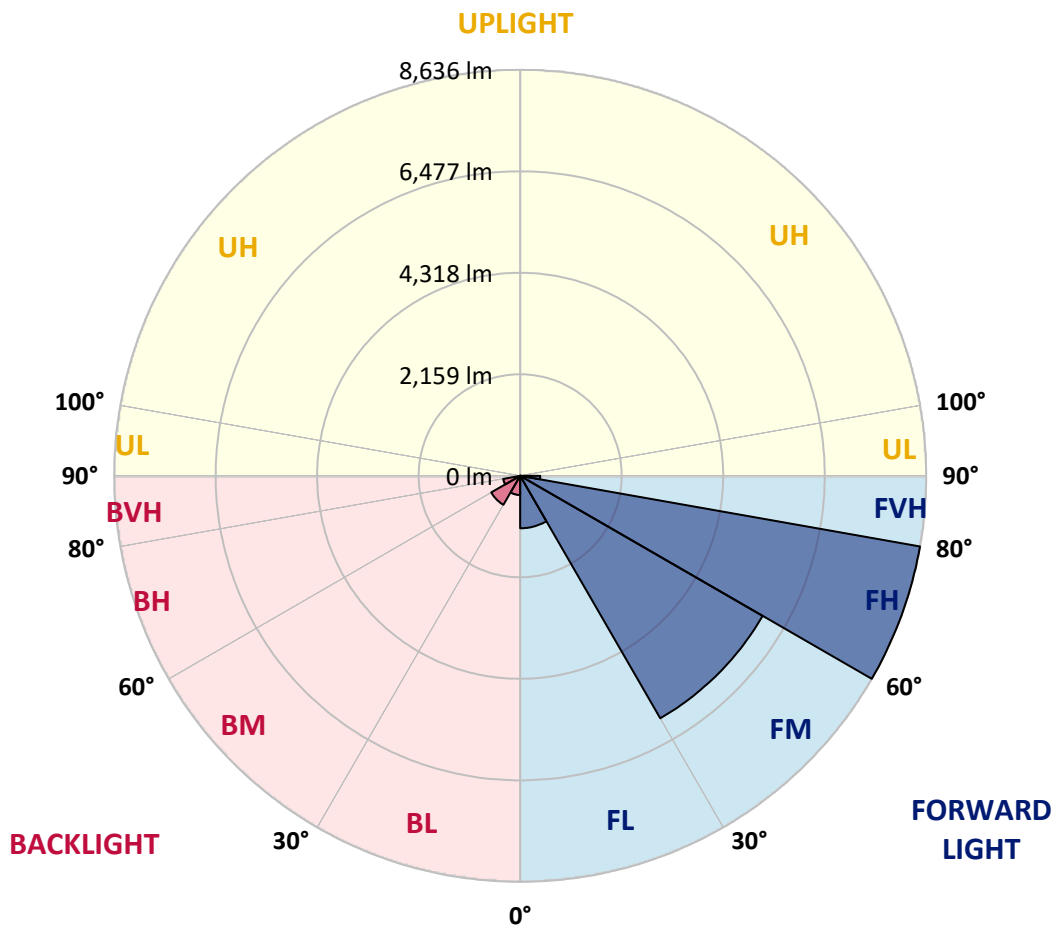
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.7	6.3			
FM (30°-60°)	5954.7	33.8			
FH (60°-80°)	8635.5	49.0			G4/12000
FVH (80°-90°)	425.4	2.4			G3/500
BL (0°-30°)	408.2	2.3	B1/500		
BM (30°-60°)	710.2	4.0	B1/1000		
BH (60°-80°)	366.3	2.1	B1/500		G1/500
BVH (80°-90°)	1.1	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5
2.5°	2089.8	2086.5	2076.8	2060.5	2044.3	2028.0	2024.8	1998.8	1969.5	1946.8	1927.3
5°	2275.1	2271.8	2255.6	2219.8	2184.0	2141.8	2138.5	2076.8	2021.5	1959.8	1907.8
7.5°	2466.8	2460.3	2431.1	2375.8	2314.1	2249.1	2242.6	2151.5	2070.3	1989.0	1914.3
10°	2616.3	2609.8	2567.6	2502.6	2418.1	2336.8	2327.1	2232.8	2151.5	2047.5	1946.8
12.5°	2762.6	2749.6	2694.3	2622.8	2518.8	2440.8	2431.1	2333.6	2236.1	2128.8	2005.3
15°	2899.1	2882.8	2830.8	2739.8	2629.3	2554.6	2548.1	2444.1	2343.3	2219.8	2083.3
17.5°	2993.3	2986.8	2925.1	2824.3	2717.1	2655.3	2648.8	2541.6	2440.8	2310.8	2164.5
20°	3042.1	3042.1	2983.6	2873.1	2775.6	2733.3	2723.6	2622.8	2525.3	2401.8	2249.1
22.5°	3051.8	3061.6	3016.1	2895.8	2824.3	2788.6	2782.1	2694.3	2600.1	2486.3	2343.3
25°	3071.3	3071.3	3048.6	2918.6	2866.6	2856.8	2853.6	2775.6	2691.1	2577.3	2437.6
27.5°	3094.1	3094.1	3077.8	2951.1	2931.6	2928.3	2925.1	2889.3	2821.1	2687.8	2548.1
30°	3152.6	3155.8	3142.8	3016.1	3003.1	3038.8	3045.3	3025.8	2941.3	2775.6	2661.8
32.5°	3298.8	3269.6	3233.8	3061.6	3084.3	3129.8	3133.1	3094.1	3003.1	2869.8	2798.3
35°	3666.1	3493.8	3331.3	3100.6	3110.3	3155.8	3162.3	3159.1	3103.8	2990.1	2954.3
37.5°	4007.3	3763.6	3532.8	3191.6	3159.1	3207.8	3220.8	3276.1	3233.8	3155.8	3165.6
40°	4205.6	4111.3	3948.8	3441.8	3256.6	3331.3	3344.3	3428.8	3412.6	3380.1	3441.8
42.5°	4816.6	4823.1	4647.6	3815.6	3435.3	3555.6	3571.8	3640.1	3662.8	3679.1	3828.6
45°	5525.1	5547.9	5505.6	4488.4	3773.3	3812.3	3835.1	3926.1	4010.6	4114.6	4387.6
47.5°	6376.6	6357.1	6201.1	5310.6	4361.6	4143.8	4160.1	4335.6	4481.9	4709.4	5099.4
50°	7130.7	7179.4	6883.7	6077.6	5190.4	4667.1	4650.9	4823.1	5086.4	5404.9	5895.6
52.5°	7891.2	7819.7	7419.9	6838.2	6171.9	5378.9	5330.1	5424.4	5794.9	6171.9	6675.7
55°	8092.7	8099.2	7962.7	7670.2	6990.9	6243.4	6162.1	6155.6	6617.2	6873.9	7494.7
57.5°	8489.2	8505.4	8537.9	8596.4	8274.7	7107.9	7023.4	6932.4	7380.9	7530.4	8316.9
60°	8892.2	8911.7	9110.0	9425.2	9210.7	8040.7	7949.7	7735.2	7985.4	8186.9	9181.5
62.5°	8840.2	8976.7	9552.0	10179.2	10153.2	9064.5	8950.7	8433.9	8593.2	8768.7	9974.5
65°	7982.2	8128.4	9422.0	10387.2	11099.0	10075.2	9890.0	9155.5	9165.2	9376.5	10738.2
67.5°	7215.2	7374.4	8609.4	10299.5	11723.0	10982.0	10790.2	9880.2	9727.5	10078.5	11147.8
70°	6773.2	6932.4	7962.7	10026.5	11898.5	11986.3	11820.5	10709.0	10397.0	10718.7	10689.5
72.5°	5300.9	5551.1	7137.2	9506.5	12087.0	13062.0	12932.0	11758.8	10965.7	10049.2	8138.2
75°	2112.5	2343.3	4455.9	7650.7	11849.8	13988.3	13887.6	12230.0	10150.0	7176.2	4166.6
77.5°	637.0	682.5	1238.3	3783.1	8687.4	12402.3	12369.8	10283.2	7182.7	3331.3	1137.5
80°	211.3	234.0	380.3	1043.3	3965.1	7748.2	7894.4	6552.1	3263.1	763.8	230.8
82.5°	87.8	97.5	191.8	419.3	1404.0	3337.8	3289.1	2934.8	1137.5	474.5	84.5
85°	22.8	29.3	87.8	240.5	513.5	1150.5	1209.0	984.8	643.5	393.3	26.0
87.5°	0.0	0.0	42.3	97.5	230.8	347.8	364.0	299.0	364.0	295.8	13.0
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°	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5	1917.5
2.5°	1911.0	1894.8	1865.5	1846.0	1820.0	1813.5	1800.5	1784.3	1781.0	1764.8	1768.0
5°	1878.5	1852.5	1800.5	1764.8	1722.5	1709.5	1686.8	1670.5	1657.5	1634.8	1638.0
7.5°	1872.0	1833.0	1761.5	1693.3	1625.0	1576.3	1508.0	1452.8	1407.3	1358.5	1368.3
10°	1894.8	1846.0	1745.3	1651.0	1527.5	1371.5	1192.8	1075.8	1017.3	958.8	965.3
12.5°	1940.3	1881.8	1751.8	1608.8	1358.5	1092.0	845.0	685.8	643.5	617.5	620.8
15°	2008.5	1937.0	1771.3	1527.5	1131.0	789.8	562.3	494.0	510.3	520.0	520.0
17.5°	2080.0	1998.8	1787.5	1381.3	874.3	552.5	458.3	451.8	474.5	497.3	497.3
20°	2167.8	2063.8	1790.8	1196.0	630.5	448.5	432.3	432.3	448.5	474.5	474.5
22.5°	2252.3	2135.3	1761.5	984.8	481.0	416.0	416.0	416.0	425.8	451.8	455.0
25°	2353.1	2223.1	1699.8	760.5	412.8	396.5	396.5	399.8	406.3	429.0	432.3
27.5°	2460.3	2314.1	1595.8	555.8	377.0	373.8	377.0	380.3	383.5	406.3	412.8
30°	2583.8	2414.8	1462.5	416.0	344.5	344.5	354.3	360.8	360.8	380.3	386.8
32.5°	2726.8	2548.1	1303.3	344.5	312.0	308.8	325.0	334.8	334.8	351.0	357.5
35°	2905.6	2684.6	1111.5	305.5	286.0	279.5	286.0	302.3	308.8	321.8	325.0
37.5°	3142.8	2847.1	906.8	282.8	266.5	253.5	253.5	256.8	269.8	282.8	286.0
40°	3445.1	3025.8	705.3	266.5	247.0	234.0	224.3	221.0	217.8	227.5	234.0
42.5°	3825.3	3227.3	526.5	250.3	230.8	211.3	198.3	185.3	169.0	165.8	169.0
45°	4312.8	3474.3	390.0	237.3	221.0	191.8	169.0	146.3	117.0	107.3	110.5
47.5°	4888.1	3731.1	305.5	224.3	214.5	169.0	139.8	100.8	71.5	65.0	68.3
50°	5499.1	3978.1	260.0	208.0	201.5	146.3	100.8	61.8	42.3	42.3	45.5
52.5°	6019.1	4117.8	237.3	195.0	182.0	120.3	65.0	35.8	26.0	26.0	29.3
55°	6522.9	4192.6	221.0	182.0	156.0	84.5	35.8	22.8	16.3	16.3	16.3
57.5°	7042.9	4225.1	201.5	165.8	123.5	52.0	19.5	13.0	9.8	9.8	9.8
60°	7504.4	4163.3	172.3	136.5	81.3	26.0	9.8	9.8	6.5	3.3	3.3
62.5°	7891.2	4046.3	120.3	97.5	48.8	13.0	6.5	3.3	0.0	0.0	0.0
65°	8128.4	3857.8	78.0	65.0	29.3	9.8	3.3	0.0	0.0	0.0	0.0
67.5°	8060.2	3503.6	48.8	42.3	13.0	6.5	3.3	0.0	0.0	0.0	0.0
70°	7273.7	2873.1	35.8	26.0	9.8	3.3	0.0	0.0	0.0	0.0	0.0
72.5°	5242.4	1943.5	26.0	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2522.1	692.3	16.3	13.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	617.5	152.8	9.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	136.5	29.3	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	13.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.3	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)