

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: P381314

Luminaire Tested: **PRV-XL-PA4A-730-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381314
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-PA4A-730-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA 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: 22111 lumens
Efficiency: N/A
Efficacy: 90.2 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

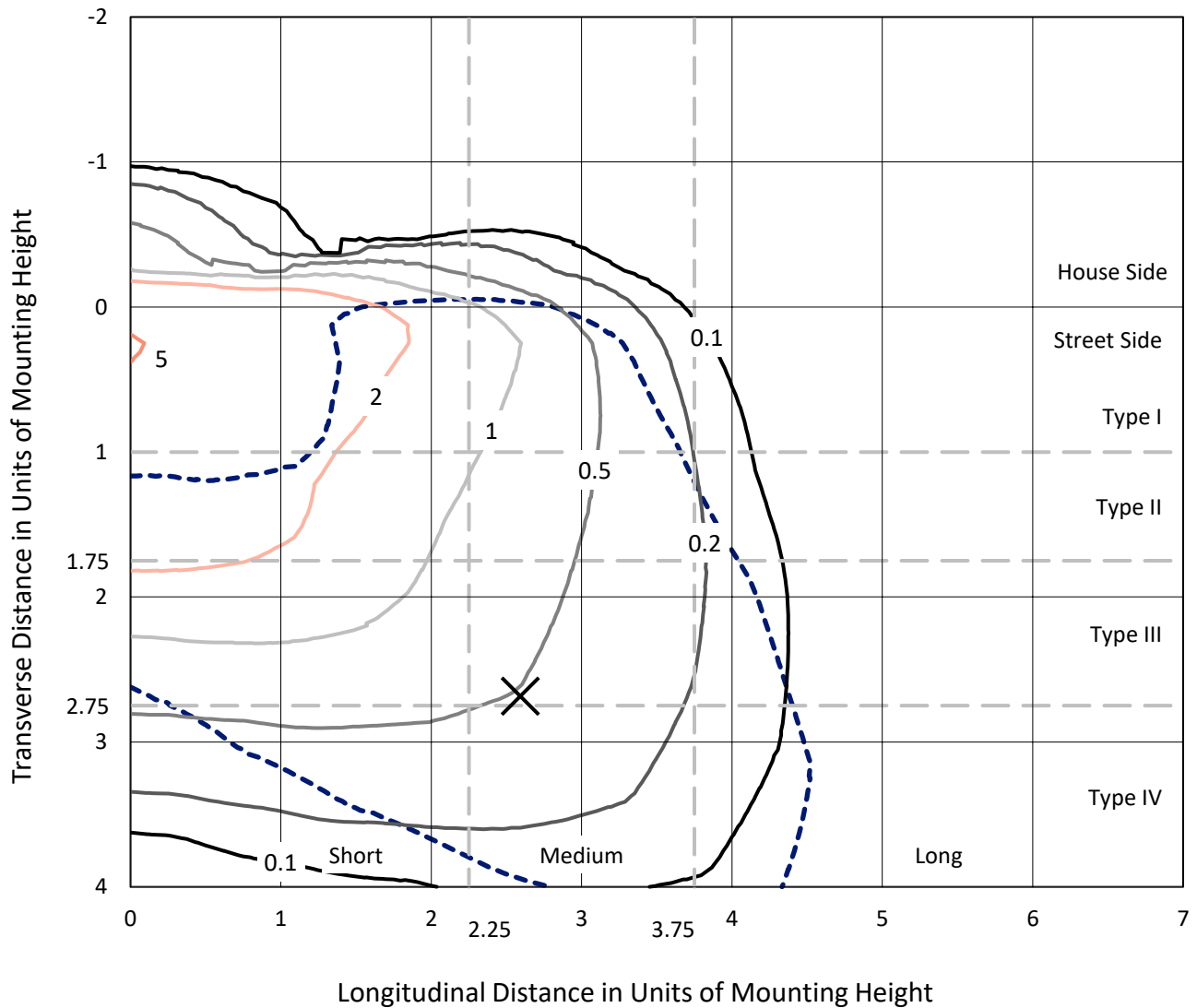
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

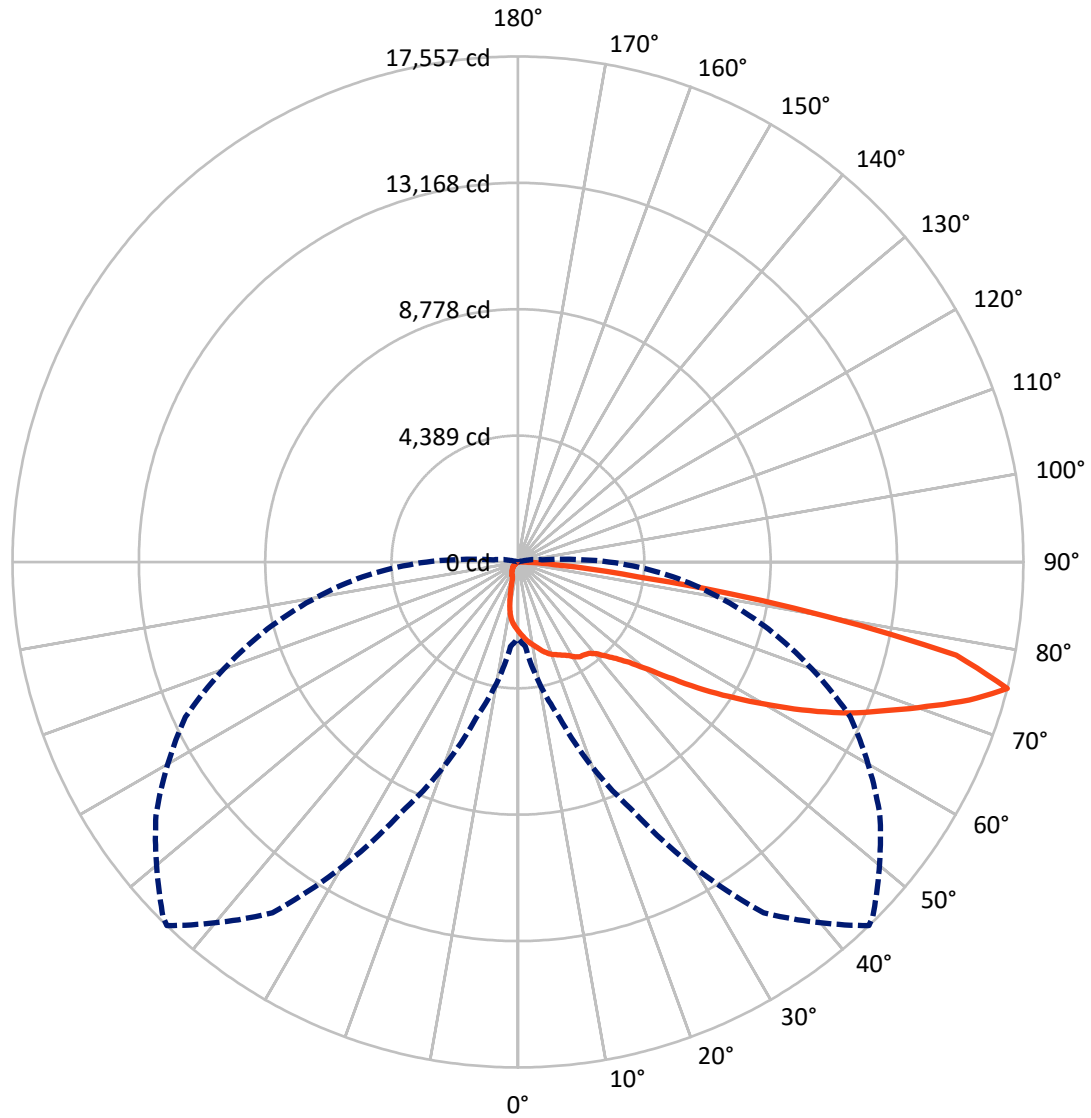
× Max cd
 - - - 1/2 Max cd



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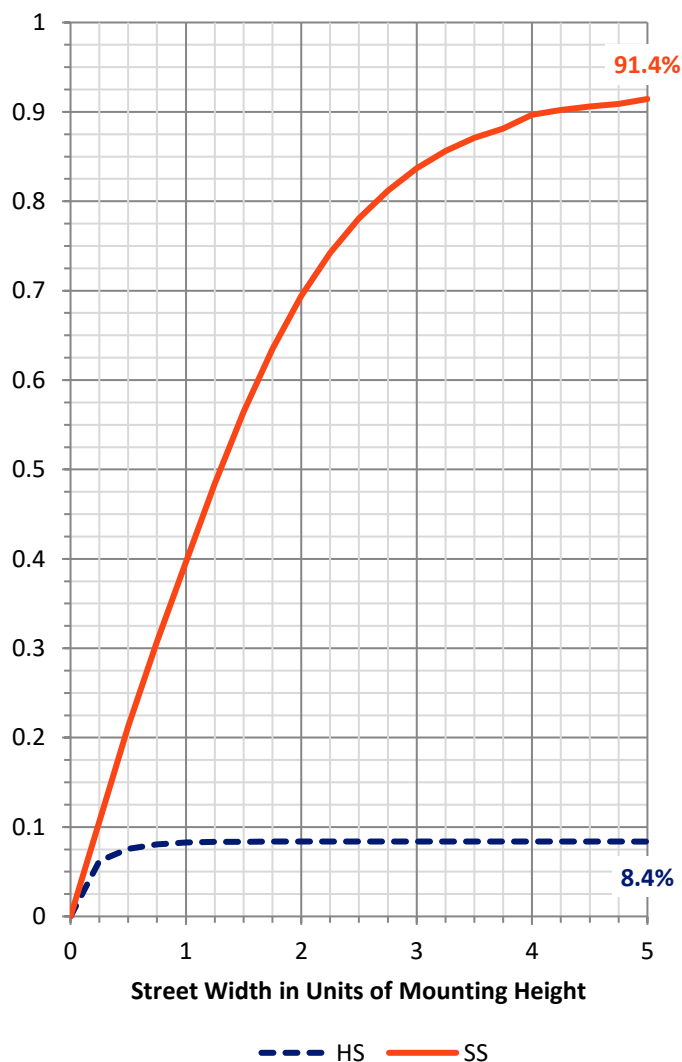
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.7	0.0	1864.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20246.3	0.0	20246.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	22111.0	0.0	22111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	1.0
10°-20°	636.0	2.9
20°-30°	1049.6	4.7
30°-40°	1523.3	6.9
40°-50°	2476.3	11.2
50°-60°	4365.4	19.7
60°-70°	6274.0	28.4
70°-80°	5024.1	22.7
80°-90°	535.3	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°	22111.0	100.0
0°-180°	22111.0	100.0

Coefficient of Utilization



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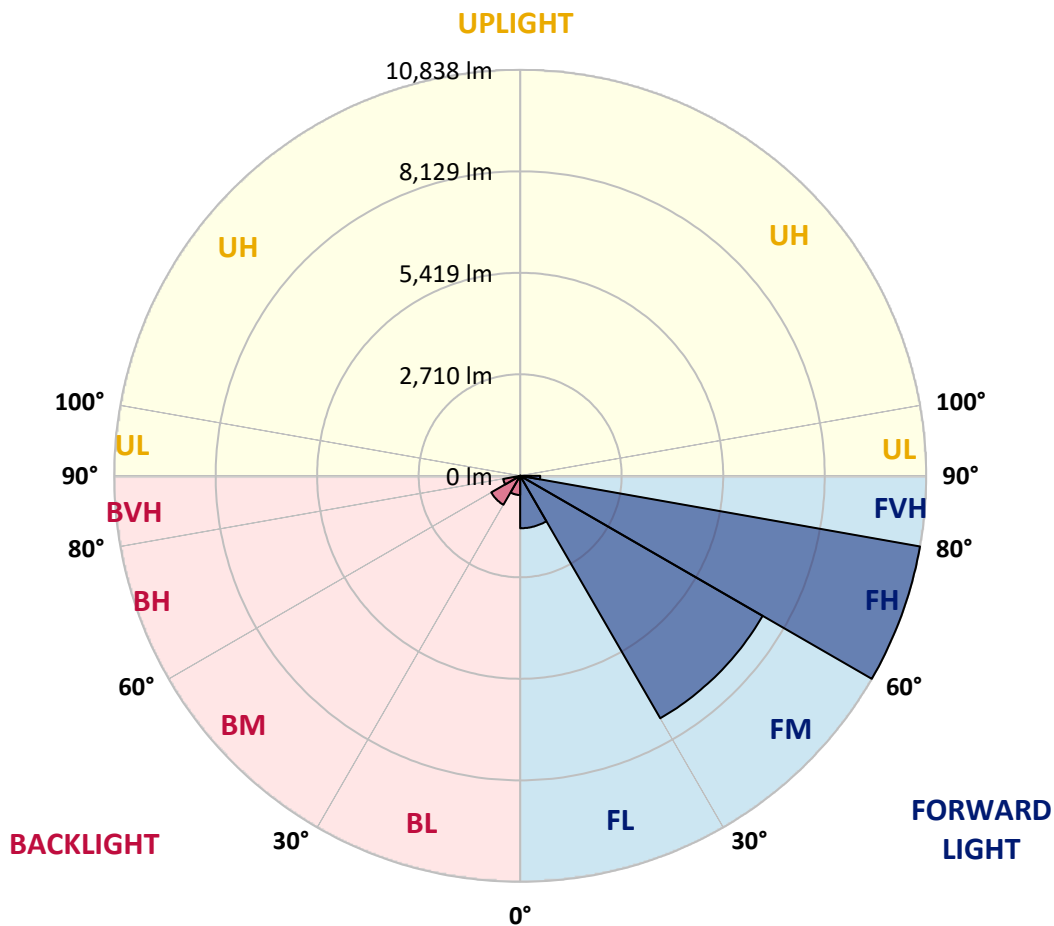
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.3	6.3			
FM (30°-60°)	7473.7	33.8			
FH (60°-80°)	10838.4	49.0			G4/12000
FVH (80°-90°)	533.9	2.4			G4/750
BL (0°-30°)	512.3	2.3	B2/1000		
BM (30°-60°)	891.3	4.0	B1/1000		
BH (60°-80°)	459.7	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°	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2622.9	2618.8	2606.6	2586.2	2565.8	2545.4	2541.3	2508.7	2472.0	2443.4	2418.9
5°	2855.4	2851.3	2830.9	2786.1	2741.2	2688.2	2684.1	2606.6	2537.2	2459.7	2394.5
7.5°	3096.1	3087.9	3051.2	2981.9	2904.4	2822.8	2814.6	2700.4	2598.4	2496.4	2402.6
10°	3283.7	3275.6	3222.5	3140.9	3034.9	2932.9	2920.7	2802.4	2700.4	2569.9	2443.4
12.5°	3467.3	3451.0	3381.6	3291.9	3161.3	3063.4	3051.2	2928.8	2806.5	2671.8	2516.8
15°	3638.6	3618.2	3552.9	3438.7	3300.0	3206.2	3198.1	3067.5	2941.1	2786.1	2614.7
17.5°	3756.9	3748.7	3671.2	3544.8	3410.2	3332.7	3324.5	3189.9	3063.4	2900.3	2716.7
20°	3818.1	3818.1	3744.7	3606.0	3483.6	3430.6	3418.3	3291.9	3169.5	3014.5	2822.8
22.5°	3830.3	3842.6	3785.5	3634.5	3544.8	3499.9	3491.8	3381.6	3263.3	3120.5	2941.1
25°	3854.8	3854.8	3826.2	3663.1	3597.8	3585.6	3581.5	3483.6	3377.5	3234.8	3059.4
27.5°	3883.4	3883.4	3863.0	3703.9	3679.4	3675.3	3671.2	3626.4	3540.7	3373.5	3198.1
30°	3956.8	3960.9	3944.5	3785.5	3769.1	3814.0	3822.2	3797.7	3691.6	3483.6	3340.8
32.5°	4140.3	4103.6	4058.8	3842.6	3871.1	3928.2	3932.3	3883.4	3769.1	3601.9	3512.1
35°	4601.3	4385.1	4181.1	3891.5	3903.7	3960.9	3969.0	3964.9	3895.6	3752.8	3707.9
37.5°	5029.6	4723.7	4434.0	4005.7	3964.9	4026.1	4042.4	4111.8	4058.8	3960.9	3973.1
40°	5278.4	5160.1	4956.2	4319.8	4087.3	4181.1	4197.4	4303.5	4283.1	4242.3	4319.8
42.5°	6045.3	6053.5	5833.2	4788.9	4311.7	4462.6	4483.0	4568.6	4597.2	4617.6	4805.2
45°	6934.6	6963.1	6910.1	5633.3	4735.9	4784.8	4813.4	4927.6	5033.7	5164.2	5506.9
47.5°	8003.3	7978.8	7783.0	6665.3	5474.2	5200.9	5221.3	5441.6	5625.1	5910.7	6400.2
50°	8949.7	9010.8	8639.6	7628.0	6514.4	5857.7	5837.3	6053.5	6383.9	6783.6	7399.6
52.5°	9904.2	9814.4	9312.7	8582.5	7746.3	6751.0	6689.8	6808.1	7273.1	7746.3	8378.6
55°	10157.1	10165.2	9993.9	9626.8	8774.3	7836.0	7734.1	7725.9	8305.1	8627.4	9406.5
57.5°	10654.7	10675.1	10715.9	10789.4	10385.5	8921.1	8815.0	8700.8	9263.7	9451.4	10438.5
60°	11160.6	11185.0	11433.9	11829.5	11560.3	10091.8	9977.6	9708.4	10022.5	10275.4	11523.6
62.5°	11095.3	11266.6	11988.6	12775.9	12743.3	11376.7	11234.0	10585.4	10785.3	11005.5	12518.9
65°	10018.4	10202.0	11825.5	13037.0	13930.3	12645.4	12412.9	11491.0	11503.2	11768.3	13477.5
67.5°	9055.7	9255.6	10805.7	12926.8	14713.5	13783.4	13542.8	12400.6	12208.9	12649.4	13991.5
70°	8500.9	8700.8	9993.9	12584.2	14933.8	15043.9	14835.9	13440.8	13049.2	13453.0	13416.3
72.5°	6653.1	6967.2	8957.8	11931.5	15170.4	16394.1	16230.9	14758.4	13763.1	12612.7	10214.2
75°	2651.4	2941.1	5592.5	9602.3	14872.6	17556.7	17430.2	15349.8	12739.2	9006.8	5229.5
77.5°	799.5	856.6	1554.2	4748.1	10903.6	15566.0	15525.2	12906.4	9014.9	4181.1	1427.7
80°	265.1	293.7	477.3	1309.4	4976.6	9724.7	9908.3	8223.6	4095.5	958.6	289.6
82.5°	110.1	122.4	240.7	526.2	1762.2	4189.3	4128.1	3683.5	1427.7	595.6	106.1
85°	28.6	36.7	110.1	301.9	644.5	1444.0	1517.4	1236.0	807.7	493.6	32.6
87.5°	0.0	0.0	53.0	122.4	289.6	436.5	456.9	375.3	456.9	371.2	16.3
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°	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7	2406.7
2.5°	2398.5	2378.1	2341.4	2317.0	2284.3	2276.2	2259.8	2239.5	2235.4	2215.0	2219.1
5°	2357.7	2325.1	2259.8	2215.0	2161.9	2145.6	2117.1	2096.7	2080.4	2051.8	2055.9
7.5°	2349.6	2300.6	2210.9	2125.2	2039.6	1978.4	1892.7	1823.4	1766.3	1705.1	1717.3
10°	2378.1	2317.0	2190.5	2072.2	1917.2	1721.4	1497.0	1350.2	1276.8	1203.3	1211.5
12.5°	2435.3	2361.8	2198.7	2019.2	1705.1	1370.6	1060.6	860.7	807.7	775.0	779.1
15°	2520.9	2431.2	2223.1	1917.2	1419.5	991.2	705.7	620.0	640.4	652.7	652.7
17.5°	2610.7	2508.7	2243.5	1733.6	1097.3	693.5	575.2	567.0	595.6	624.1	624.1
20°	2720.8	2590.3	2247.6	1501.1	791.4	562.9	542.5	542.5	562.9	595.6	595.6
22.5°	2826.9	2680.0	2210.9	1236.0	603.7	522.1	522.1	522.1	534.4	567.0	571.1
25°	2953.3	2790.1	2133.4	954.5	518.1	497.7	497.7	501.7	509.9	538.4	542.5
27.5°	3087.9	2904.4	2002.9	697.5	473.2	469.1	473.2	477.3	481.3	509.9	518.1
30°	3242.9	3030.8	1835.6	522.1	432.4	432.4	444.6	452.8	452.8	477.3	485.4
32.5°	3422.4	3198.1	1635.7	432.4	391.6	387.5	407.9	420.2	420.2	440.5	448.7
35°	3646.8	3369.4	1395.1	383.4	359.0	350.8	359.0	379.4	387.5	403.8	407.9
37.5°	3944.5	3573.3	1138.1	354.9	334.5	318.2	318.2	322.3	338.6	354.9	359.0
40°	4323.9	3797.7	885.2	334.5	310.0	293.7	281.5	277.4	273.3	285.5	293.7
42.5°	4801.2	4050.6	660.8	314.1	289.6	265.1	248.8	232.5	212.1	208.0	212.1
45°	5413.0	4360.6	489.5	297.8	277.4	240.7	212.1	183.6	146.8	134.6	138.7
47.5°	6135.0	4682.9	383.4	281.5	269.2	212.1	175.4	126.5	89.7	81.6	85.7
50°	6901.9	4992.9	326.3	261.1	252.9	183.6	126.5	77.5	53.0	53.0	57.1
52.5°	7554.6	5168.3	297.8	244.7	228.4	150.9	81.6	44.9	32.6	32.6	36.7
55°	8186.9	5262.1	277.4	228.4	195.8	106.1	44.9	28.6	20.4	20.4	20.4
57.5°	8839.5	5302.9	252.9	208.0	155.0	65.3	24.5	16.3	12.2	12.2	12.2
60°	9418.8	5225.4	216.2	171.3	102.0	32.6	12.2	12.2	8.2	4.1	4.1
62.5°	9904.2	5078.5	150.9	122.4	61.2	16.3	8.2	4.1	0.0	0.0	0.0
65°	10202.0	4842.0	97.9	81.6	36.7	12.2	4.1	0.0	0.0	0.0	0.0
67.5°	10116.3	4397.3	61.2	53.0	16.3	8.2	4.1	0.0	0.0	0.0	0.0
70°	9129.1	3606.0	44.9	32.6	12.2	4.1	0.0	0.0	0.0	0.0	0.0
72.5°	6579.7	2439.3	32.6	20.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3165.4	868.9	20.4	16.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	775.0	191.7	12.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	171.3	36.7	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.1	16.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.1	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)