

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: STREETWORKS

Report Number: P399489

Luminaire Tested: **ARCH-L-PA3-150-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA 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: 17306 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

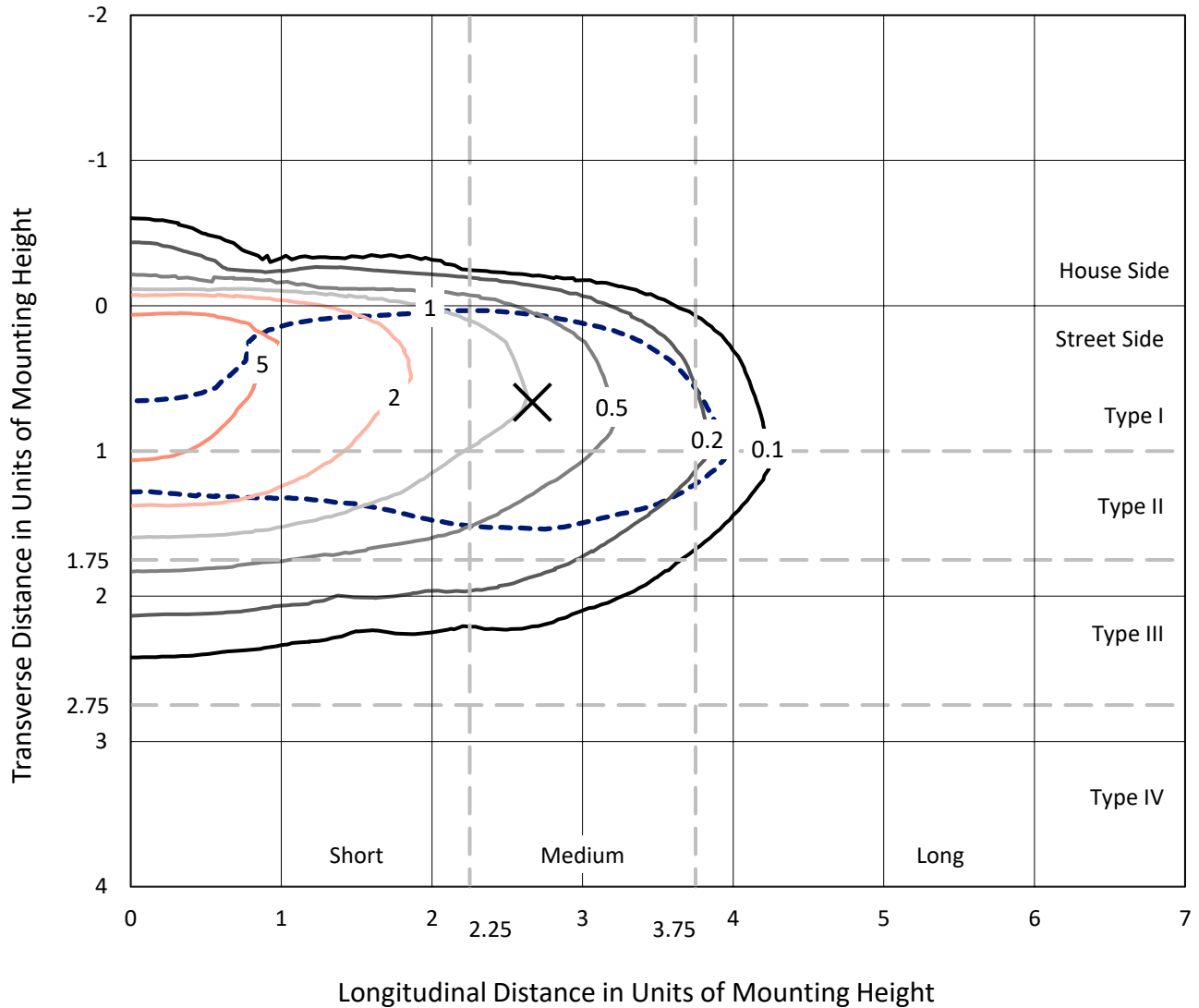
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

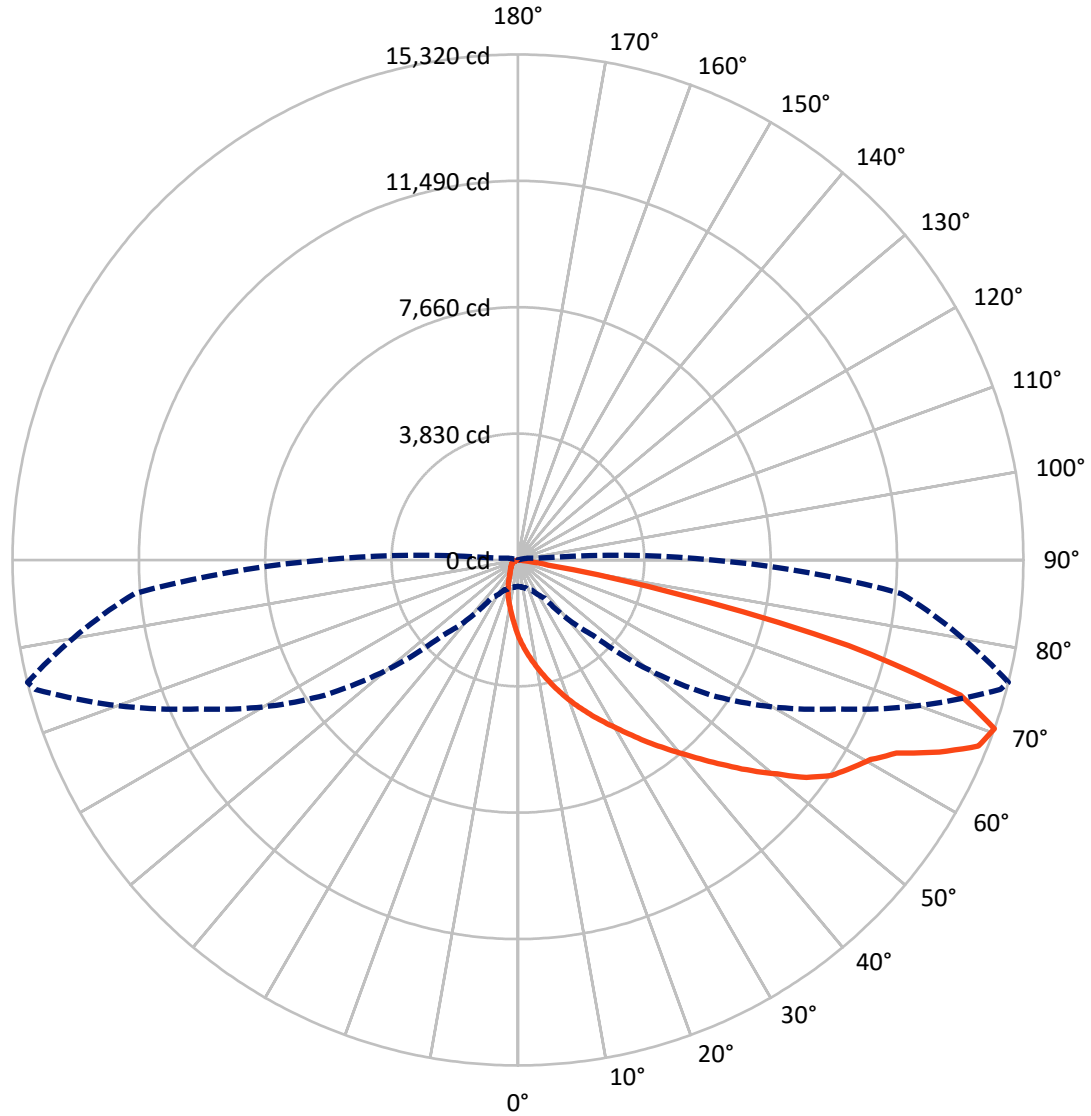
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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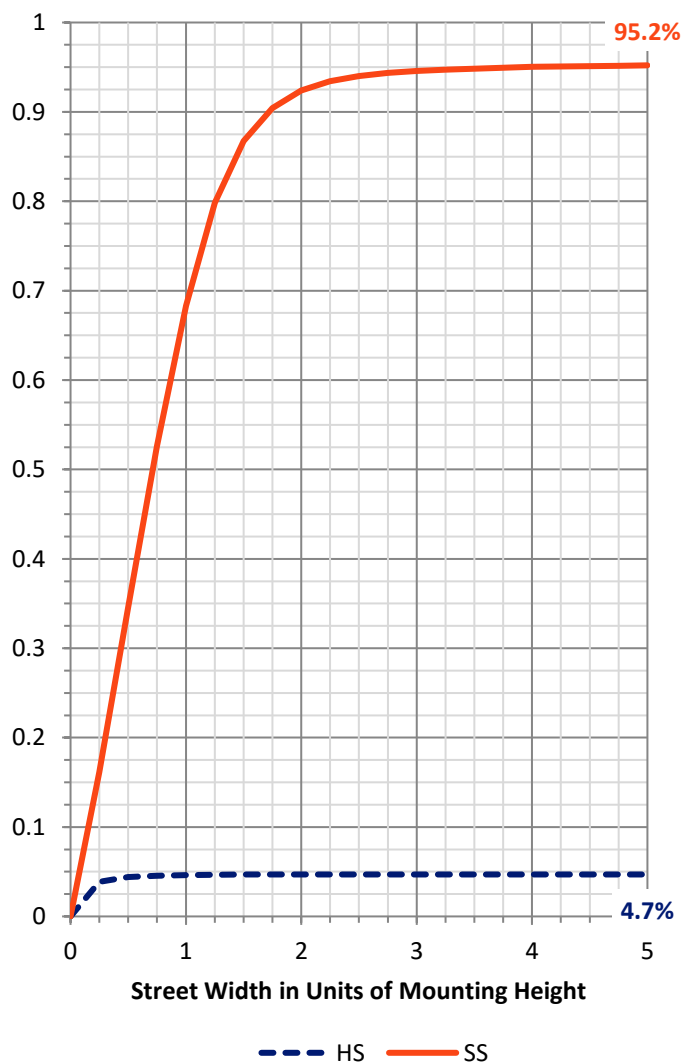
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	816.2	0.0	816.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16489.8	0.0	16489.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	17306.0	0.0	17306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.3
10°-20°	704.3	4.1
20°-30°	1311.7	7.6
30°-40°	2320.2	13.4
40°-50°	3548.1	20.5
50°-60°	4022.7	23.2
60°-70°	3448.5	19.9
70°-80°	1670.2	9.7
80°-90°	62.0	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°	17306.0	100.0
0°-180°	17306.0	100.0

Coefficient of Utilization

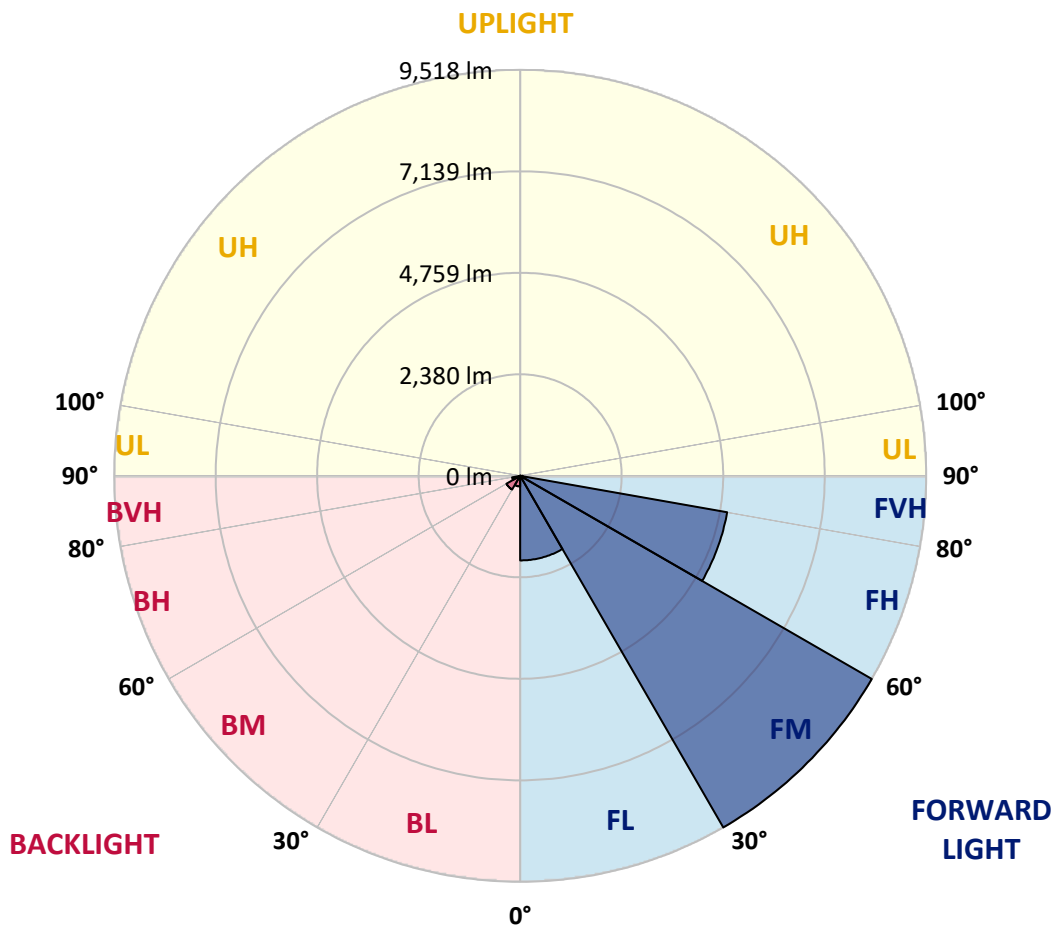


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.9	11.5			
FM (30°-60°)	9518.5	55.0			
FH (60°-80°)	4926.5	28.5			G2/5000
FVH (80°-90°)	60.9	0.4			G1/100
BL (0°-30°)	250.4	1.4	B1/500		
BM (30°-60°)	372.6	2.2	B1/1000		
BH (60°-80°)	192.2	1.1	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5
2.5°	3166.5	3149.2	3131.9	3065.6	3005.1	2950.4	2846.7	2711.2	2590.2	2564.3	2423.1
5°	3719.7	3699.5	3673.6	3607.3	3529.5	3437.3	3284.6	3077.2	2864.0	2817.9	2555.7
7.5°	4094.2	4077.0	4039.5	4007.8	3930.0	3840.7	3670.7	3428.7	3134.8	3077.2	2708.4
10°	4350.7	4339.2	4333.4	4307.5	4249.8	4177.8	4007.8	3754.3	3408.5	3342.2	2869.7
12.5°	4442.9	4442.9	4471.7	4514.9	4523.6	4500.5	4344.9	4091.4	3696.6	3627.5	3059.9
15°	4319.0	4333.4	4396.8	4535.1	4679.1	4774.2	4676.3	4440.0	4013.6	3938.7	3284.6
17.5°	4284.4	4298.8	4342.0	4463.0	4656.1	4909.6	4958.6	4777.1	4313.2	4249.8	3515.1
20°	4382.4	4396.8	4434.2	4538.0	4684.9	4941.3	5145.9	5102.7	4630.2	4563.9	3748.5
22.5°	4615.8	4624.4	4624.4	4705.1	4834.7	5024.9	5264.0	5411.0	4955.7	4883.7	3979.0
25°	5117.1	5099.8	5030.6	4990.3	5073.9	5229.5	5413.9	5681.8	5318.8	5220.8	4226.8
27.5°	5774.0	5831.6	5664.5	5471.5	5408.1	5497.4	5624.2	5921.0	5670.3	5566.6	4451.5
30°	6664.3	6641.3	6422.3	6145.7	5872.0	5840.3	5883.5	6125.5	6021.8	5923.8	4702.2
32.5°	7396.2	7439.4	7208.9	6871.8	6462.6	6269.6	6223.5	6370.4	6396.4	6333.0	4999.0
35°	8148.2	8194.3	7969.5	7595.0	7108.0	6785.3	6652.8	6673.0	6860.2	6779.6	5310.1
37.5°	8822.4	8862.7	8640.8	8257.6	7770.7	7376.0	7185.8	7030.2	7309.7	7237.7	5638.6
40°	9335.2	9341.0	9191.2	8848.3	8387.3	7978.2	7762.1	7456.7	7785.1	7736.1	5981.5
42.5°	9698.3	9709.8	9600.3	9306.4	8880.0	8499.7	8323.9	7960.9	8332.6	8289.3	6379.1
45°	9868.3	9888.4	9876.9	9606.1	9251.7	8923.2	8865.6	8496.8	8931.9	8891.5	6837.2
47.5°	9706.9	9706.9	9853.9	9816.4	9490.8	9271.8	9338.1	9055.7	9583.0	9545.6	7304.0
50°	9035.6	9044.2	9343.9	9773.2	9583.0	9534.0	9741.5	9603.2	10173.7	10196.7	7862.9
52.5°	7272.3	7257.9	8269.2	9093.2	9519.6	9652.2	10113.2	10162.1	10882.5	10951.6	8419.0
55°	5434.0	5425.4	6393.5	7888.8	9075.9	9591.7	10320.6	10660.6	11487.5	11530.7	8833.9
57.5°	4301.7	4278.6	4811.7	6358.9	8073.2	9320.8	10329.3	10755.7	11824.6	11899.5	9237.3
60°	3307.7	3287.5	3685.1	4731.0	6652.8	8600.5	10081.5	10761.4	12150.2	12282.7	9778.9
62.5°	2365.5	2388.6	2694.0	3394.1	5117.1	7583.4	9758.8	10842.1	12729.3	12879.2	10548.2
65°	1596.2	1584.7	1838.2	2310.8	3639.0	6214.8	9263.2	11012.1	13772.3	14034.5	11470.2
67.5°	1109.3	1117.9	1233.2	1504.0	2310.8	4771.3	8439.2	11107.2	14849.9	15054.5	12115.6
70°	801.0	812.5	875.9	1011.3	1411.8	3235.6	7134.0	10672.1	15140.9	15319.6	11666.2
72.5°	527.3	550.3	645.4	717.4	901.8	2025.5	5255.4	9194.0	13887.6	14020.1	9787.6
75°	285.2	291.0	414.9	535.9	642.5	1262.0	3134.8	6200.4	10389.8	10346.5	6454.0
77.5°	221.9	230.5	256.4	383.2	432.2	694.4	1238.9	2800.6	4921.2	4788.6	2201.3
80°	135.4	141.2	178.6	227.6	302.5	403.4	363.0	760.6	999.8	936.4	322.7
82.5°	80.7	86.4	106.6	190.2	239.1	190.2	126.8	184.4	187.3	184.4	80.7
85°	14.4	14.4	74.9	132.5	126.8	54.7	74.9	60.5	54.7	57.6	17.3
87.5°	0.0	0.0	28.8	40.3	57.6	20.2	28.8	14.4	14.4	14.4	8.6
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°	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5	2316.5
2.5°	2336.7	2238.7	2037.0	1861.3	1685.5	1555.9	1457.9	1357.1	1322.5	1279.3	1256.2
5°	2377.0	2184.0	1783.5	1463.7	1192.8	985.4	852.8	772.2	720.3	682.9	674.2
7.5°	2437.5	2140.8	1578.9	1146.7	850.0	642.5	533.0	478.3	449.5	432.2	426.4
10°	2509.6	2103.3	1377.2	893.2	599.3	452.4	391.8	368.8	357.3	351.5	348.6
12.5°	2610.4	2088.9	1207.2	688.6	452.4	371.7	340.0	325.6	316.9	308.3	305.4
15°	2742.9	2094.7	1051.7	533.0	374.6	331.3	305.4	291.0	279.5	270.8	270.8
17.5°	2881.2	2103.3	898.9	432.2	340.0	302.5	273.7	253.5	244.9	236.3	233.4
20°	3010.9	2100.4	752.0	368.8	308.3	270.8	242.0	221.9	207.4	198.8	198.8
22.5°	3134.8	2083.1	613.7	331.3	282.4	239.1	207.4	187.3	175.8	167.1	167.1
25°	3267.3	2048.6	501.3	302.5	250.7	210.3	178.6	158.5	149.8	141.2	141.2
27.5°	3371.1	1990.9	409.1	276.6	221.9	181.5	152.7	135.4	126.8	121.0	121.0
30°	3483.4	1907.4	340.0	247.8	193.0	155.6	129.7	115.2	106.6	103.7	103.7
32.5°	3607.3	1815.2	291.0	219.0	164.2	132.5	109.5	100.8	92.2	89.3	89.3
35°	3751.4	1734.5	262.2	190.2	144.1	112.4	95.1	86.4	80.7	80.7	80.7
37.5°	3915.6	1651.0	236.3	167.1	123.9	95.1	80.7	77.8	74.9	72.0	72.0
40°	4094.2	1561.6	213.2	146.9	106.6	80.7	69.1	69.1	66.3	66.3	66.3
42.5°	4295.9	1483.8	193.0	129.7	92.2	69.1	60.5	60.5	57.6	57.6	57.6
45°	4514.9	1411.8	175.8	115.2	80.7	60.5	54.7	51.9	49.0	49.0	49.0
47.5°	4774.2	1371.5	161.3	100.8	69.1	51.9	46.1	43.2	40.3	37.5	37.5
50°	5105.6	1388.8	146.9	83.6	60.5	43.2	37.5	34.6	31.7	28.8	28.8
52.5°	5367.8	1380.1	126.8	72.0	49.0	34.6	28.8	25.9	23.0	20.2	20.2
55°	5557.9	1345.5	109.5	60.5	37.5	28.8	23.0	17.3	14.4	14.4	14.4
57.5°	5745.2	1311.0	92.2	49.0	28.8	20.2	14.4	11.5	11.5	11.5	11.5
60°	6036.2	1262.0	80.7	40.3	23.0	14.4	8.6	8.6	5.8	5.8	5.8
62.5°	6390.6	1201.5	66.3	34.6	17.3	11.5	5.8	5.8	0.0	0.0	0.0
65°	6779.6	1094.9	54.7	25.9	14.4	8.6	5.8	0.0	0.0	0.0	0.0
67.5°	6690.2	878.8	46.1	17.3	11.5	5.8	2.9	0.0	0.0	0.0	0.0
70°	5918.1	593.5	37.5	14.4	8.6	5.8	2.9	0.0	0.0	0.0	0.0
72.5°	4635.9	351.5	25.9	11.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	2967.7	175.8	17.3	8.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	994.0	86.4	11.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.2	28.8	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.7	11.5	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	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)