

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: P399354

Luminaire Tested: **ARCH-L-PA3-130-740-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399354
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-PA3-130-740-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA 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: 16860 lumens
Efficiency: N/A
Efficacy: 126.8 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

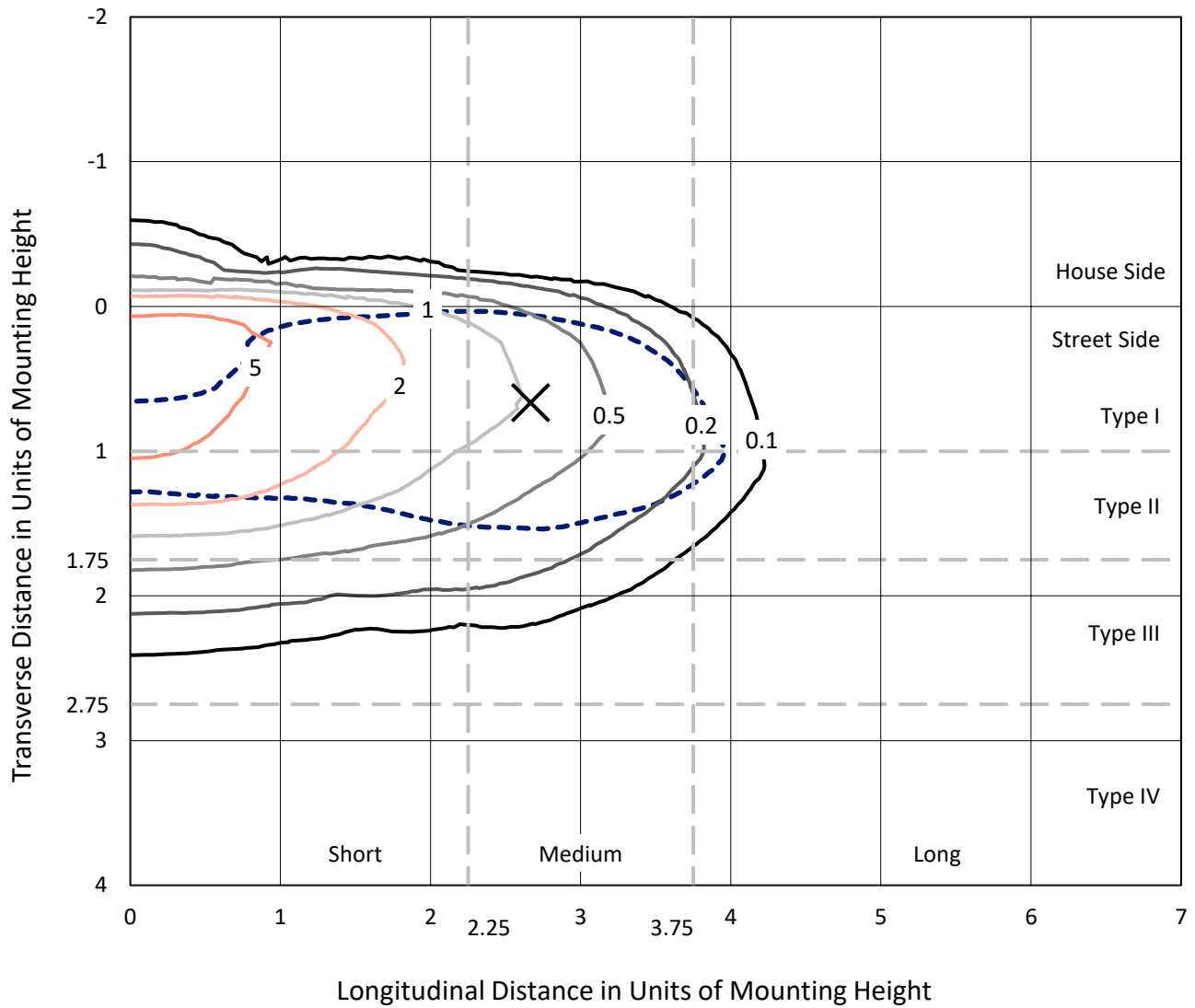
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

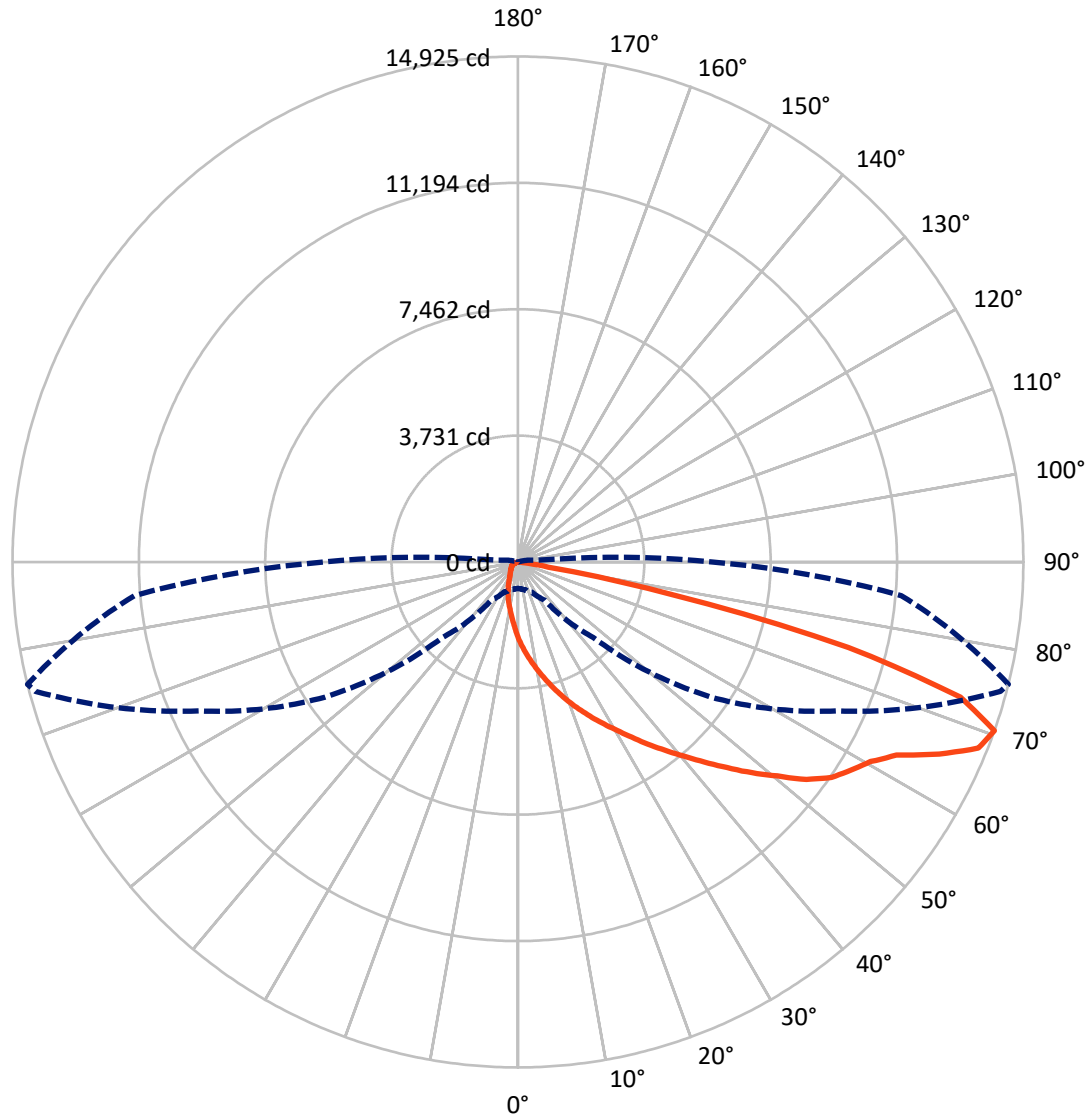
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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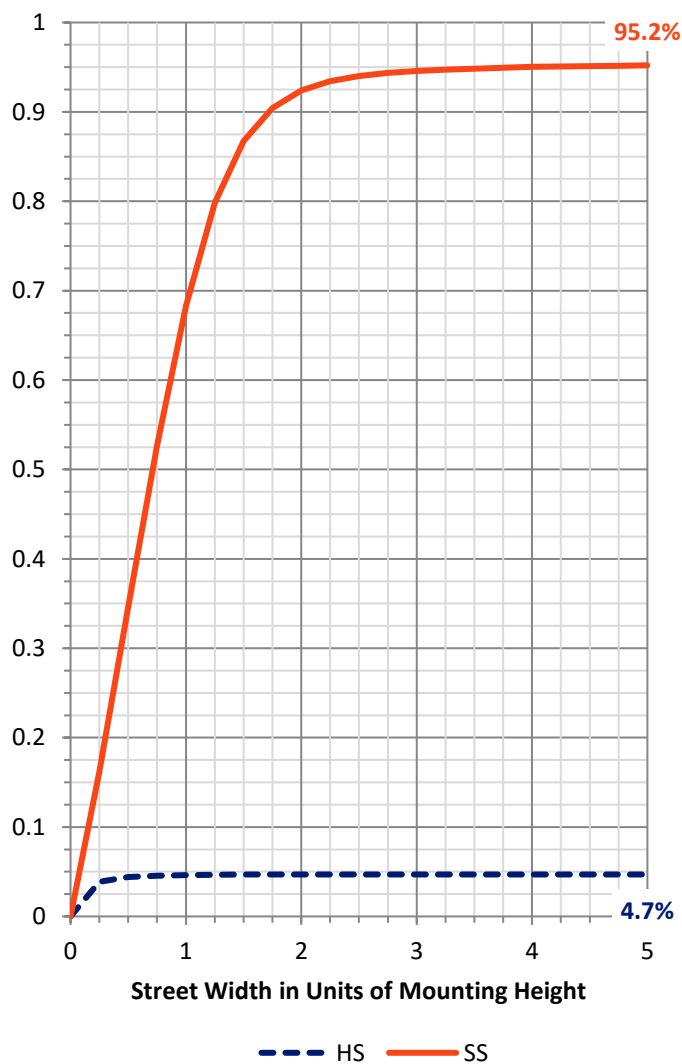
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	795.2	0.0	795.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16064.8	0.0	16064.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	16860.0	0.0	16860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	1.3
10°-20°	686.2	4.1
20°-30°	1277.9	7.6
30°-40°	2260.4	13.4
40°-50°	3456.7	20.5
50°-60°	3919.0	23.2
60°-70°	3359.6	19.9
70°-80°	1627.2	9.7
80°-90°	60.4	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°	16860.0	100.0
0°-180°	16860.0	100.0

Coefficient of Utilization

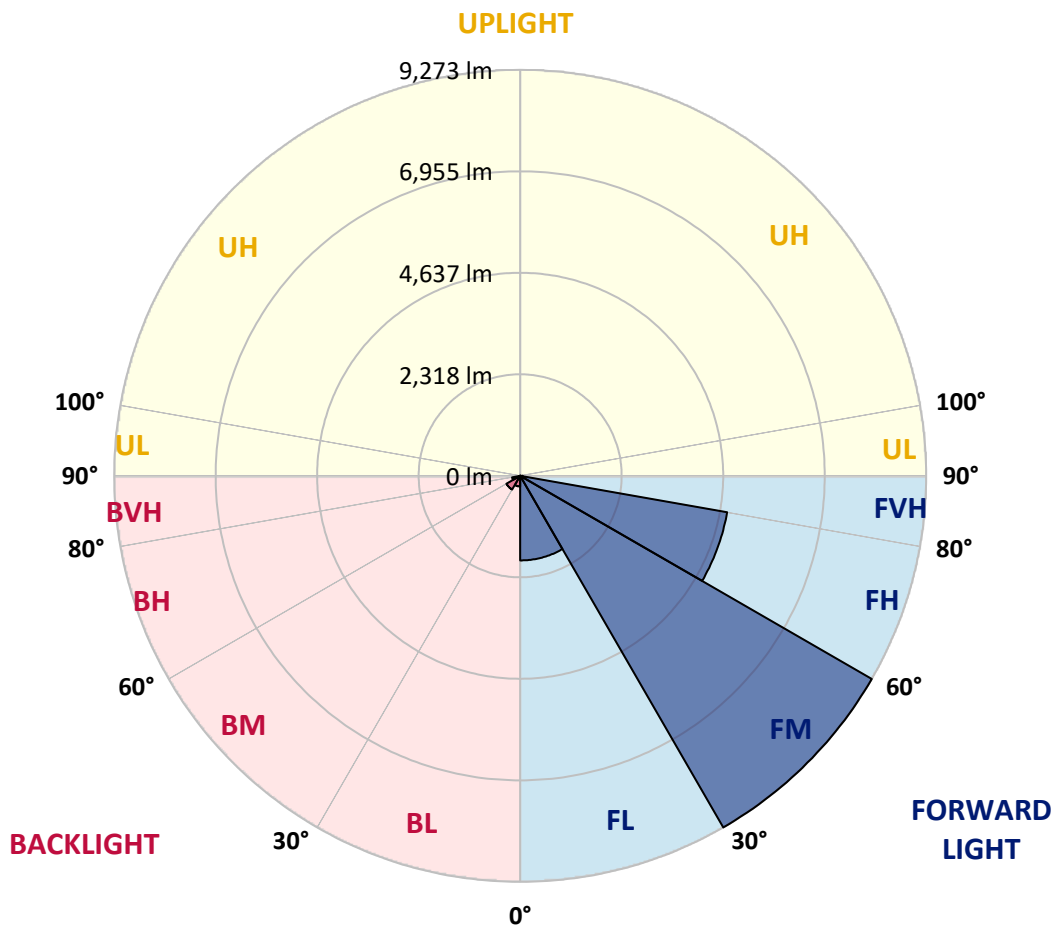


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.8	11.5			
FM (30°-60°)	9273.1	55.0			
FH (60°-80°)	4799.5	28.5			G2/5000
FVH (80°-90°)	59.3	0.4			G1/100
BL (0°-30°)	243.9	1.4	B1/500		
BM (30°-60°)	363.0	2.2	B1/1000		
BH (60°-80°)	187.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.0	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°	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8
2.5°	3084.9	3068.0	3051.2	2986.6	2927.7	2874.4	2773.3	2641.4	2523.5	2498.2	2360.7
5°	3623.8	3604.2	3578.9	3514.4	3438.6	3348.7	3200.0	2997.9	2790.1	2745.2	2489.8
7.5°	3988.7	3971.9	3935.4	3904.5	3828.7	3741.7	3576.1	3340.3	3054.0	2997.9	2638.6
10°	4238.6	4227.3	4221.7	4196.4	4140.3	4070.1	3904.5	3657.5	3320.7	3256.1	2795.8
12.5°	4328.4	4328.4	4356.4	4398.6	4407.0	4384.5	4232.9	3985.9	3601.4	3534.0	2981.0
15°	4207.7	4221.7	4283.5	4418.2	4558.6	4651.2	4555.7	4325.6	3910.1	3837.2	3200.0
17.5°	4174.0	4188.0	4230.1	4348.0	4536.1	4783.1	4830.8	4654.0	4202.1	4140.3	3424.5
20°	4269.4	4283.5	4320.0	4421.0	4564.2	4814.0	5013.3	4971.2	4510.8	4446.3	3651.9
22.5°	4496.8	4505.2	4505.2	4583.8	4710.1	4895.4	5128.4	5271.5	4828.0	4757.8	3876.5
25°	4985.2	4968.4	4901.0	4861.7	4943.1	5094.7	5274.3	5535.4	5181.7	5086.3	4117.9
27.5°	5625.2	5681.3	5518.5	5330.5	5268.7	5355.7	5479.2	5768.4	5524.2	5423.1	4336.8
30°	6492.6	6470.1	6256.8	5987.3	5720.6	5689.8	5731.9	5967.7	5866.6	5771.2	4581.0
32.5°	7205.5	7247.6	7023.1	6694.7	6296.1	6108.0	6063.1	6206.3	6231.5	6169.8	4870.1
35°	7938.2	7983.1	7764.1	7399.2	6924.8	6610.5	6481.3	6501.0	6683.4	6604.8	5173.3
37.5°	8595.0	8634.3	8418.2	8044.8	7570.4	7185.9	7000.6	6849.1	7121.3	7051.2	5493.3
40°	9094.6	9100.3	8954.3	8620.3	8171.1	7772.6	7562.0	7264.5	7584.5	7536.8	5827.3
42.5°	9448.3	9459.6	9352.9	9066.6	8651.1	8280.6	8109.4	7755.7	8117.8	8075.7	6214.7
45°	9613.9	9633.6	9622.4	9358.5	9013.2	8693.2	8637.1	8277.8	8701.7	8662.4	6661.0
47.5°	9456.7	9456.7	9599.9	9563.4	9246.2	9032.9	9097.5	8822.4	9336.0	9299.6	7115.7
50°	8802.7	8811.1	9103.1	9521.3	9336.0	9288.3	9490.4	9355.7	9911.5	9933.9	7660.3
52.5°	7084.8	7070.8	8056.1	8858.9	9274.3	9403.4	9852.5	9900.3	10602.0	10669.4	8202.0
55°	5294.0	5285.6	6228.7	7685.5	8842.0	9344.5	10054.6	10385.9	11191.5	11233.6	8606.2
57.5°	4190.8	4168.4	4687.7	6195.0	7865.2	9080.6	10063.1	10478.5	11519.9	11592.9	8999.2
60°	3222.4	3202.8	3590.1	4609.1	6481.3	8378.9	9821.7	10484.1	11837.1	11966.2	9526.9
62.5°	2304.5	2327.0	2624.5	3306.6	4985.2	7388.0	9507.3	10562.7	12401.3	12547.2	10276.4
65°	1555.1	1543.8	1790.9	2251.2	3545.2	6054.7	9024.5	10728.3	13417.4	13672.8	11174.6
67.5°	1080.7	1089.1	1201.4	1465.2	2251.2	4648.4	8221.7	10820.9	14467.2	14666.5	11803.4
70°	780.3	791.6	853.3	985.3	1375.4	3152.2	6950.1	10397.1	14750.7	14924.8	11365.5
72.5°	513.7	536.1	628.8	698.9	878.6	1973.3	5119.9	8957.1	13529.7	13658.8	9535.3
75°	277.9	283.5	404.2	522.1	626.0	1229.5	3054.0	6040.6	10122.0	10079.9	6287.7
77.5°	216.1	224.6	249.8	373.3	421.0	676.5	1207.0	2728.4	4794.3	4665.2	2144.5
80°	131.9	137.5	174.0	221.8	294.7	393.0	353.7	741.0	974.0	912.3	314.4
82.5°	78.6	84.2	103.9	185.3	233.0	185.3	123.5	179.6	182.5	179.6	78.6
85°	14.0	14.0	73.0	129.1	123.5	53.3	73.0	58.9	53.3	56.1	16.8
87.5°	0.0	0.0	28.1	39.3	56.1	19.6	28.1	14.0	14.0	14.0	8.4
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°	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8
2.5°	2276.5	2181.0	1984.5	1813.3	1642.1	1515.8	1420.3	1322.1	1288.4	1246.3	1223.8
5°	2315.8	2127.7	1737.5	1426.0	1162.1	960.0	830.9	752.3	701.7	665.3	656.8
7.5°	2374.7	2085.6	1538.2	1117.2	828.1	626.0	519.3	466.0	437.9	421.0	415.4
10°	2444.9	2049.1	1341.7	870.2	583.9	440.7	381.8	359.3	348.1	342.5	339.6
12.5°	2543.1	2035.1	1176.1	670.9	440.7	362.1	331.2	317.2	308.8	300.3	297.5
15°	2672.3	2040.7	1024.6	519.3	364.9	322.8	297.5	283.5	272.3	263.9	263.9
17.5°	2807.0	2049.1	875.8	421.0	331.2	294.7	266.7	247.0	238.6	230.2	227.4
20°	2933.3	2046.3	732.6	359.3	300.3	263.9	235.8	216.1	202.1	193.7	193.7
22.5°	3054.0	2029.5	597.9	322.8	275.1	233.0	202.1	182.5	171.2	162.8	162.8
25°	3183.1	1995.8	488.4	294.7	244.2	204.9	174.0	154.4	146.0	137.5	137.5
27.5°	3284.2	1939.6	398.6	269.5	216.1	176.8	148.8	131.9	123.5	117.9	117.9
30°	3393.6	1858.2	331.2	241.4	188.1	151.6	126.3	112.3	103.9	101.1	101.1
32.5°	3514.4	1768.4	283.5	213.3	160.0	129.1	106.7	98.2	89.8	87.0	87.0
35°	3654.7	1689.8	255.4	185.3	140.3	109.5	92.6	84.2	78.6	78.6	78.6
37.5°	3814.7	1608.4	230.2	162.8	120.7	92.6	78.6	75.8	73.0	70.2	70.2
40°	3988.7	1521.4	207.7	143.2	103.9	78.6	67.4	67.4	64.6	64.6	64.6
42.5°	4185.2	1445.6	188.1	126.3	89.8	67.4	58.9	58.9	56.1	56.1	56.1
45°	4398.6	1375.4	171.2	112.3	78.6	58.9	53.3	50.5	47.7	47.7	47.7
47.5°	4651.2	1336.1	157.2	98.2	67.4	50.5	44.9	42.1	39.3	36.5	36.5
50°	4974.0	1353.0	143.2	81.4	58.9	42.1	36.5	33.7	30.9	28.1	28.1
52.5°	5229.4	1344.5	123.5	70.2	47.7	33.7	28.1	25.3	22.5	19.6	19.6
55°	5414.7	1310.9	106.7	58.9	36.5	28.1	22.5	16.8	14.0	14.0	14.0
57.5°	5597.1	1277.2	89.8	47.7	28.1	19.6	14.0	11.2	11.2	11.2	11.2
60°	5880.6	1229.5	78.6	39.3	22.5	14.0	8.4	8.4	5.6	5.6	5.6
62.5°	6225.9	1170.5	64.6	33.7	16.8	11.2	5.6	5.6	0.0	0.0	0.0
65°	6604.8	1066.7	53.3	25.3	14.0	8.4	5.6	0.0	0.0	0.0	0.0
67.5°	6517.8	856.1	44.9	16.8	11.2	5.6	2.8	0.0	0.0	0.0	0.0
70°	5765.6	578.2	36.5	14.0	8.4	5.6	2.8	0.0	0.0	0.0	0.0
72.5°	4516.4	342.5	25.3	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0
75°	2891.2	171.2	16.8	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	968.4	84.2	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	137.5	28.1	5.6	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.9	11.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	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)