

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: P399408

Luminaire Tested: **ARCH-L-PA3-140-727-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399408
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-PA3-140-727-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 620mA 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: 15000 lumens
Efficiency: N/A
Efficacy: 104.9 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

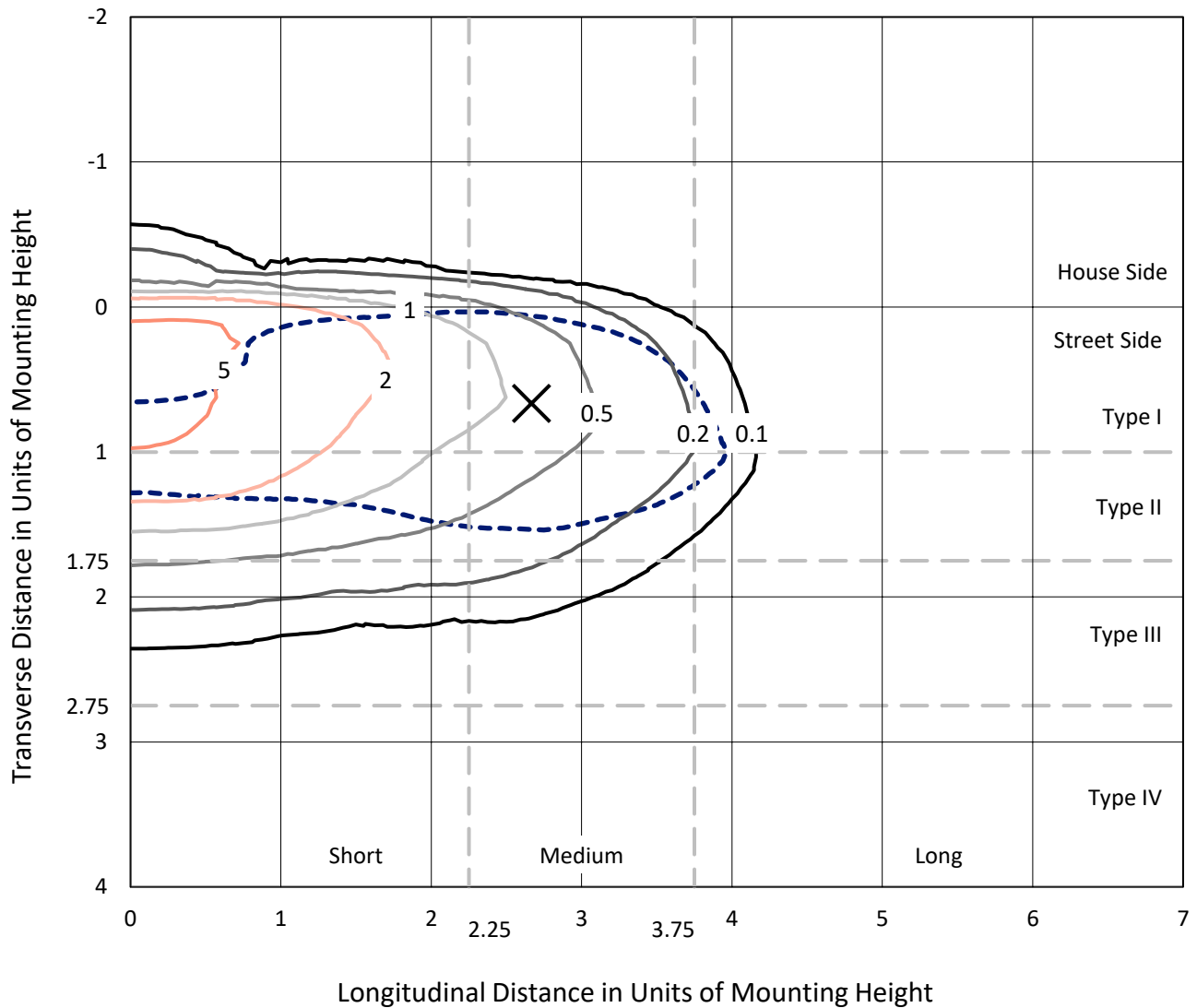
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

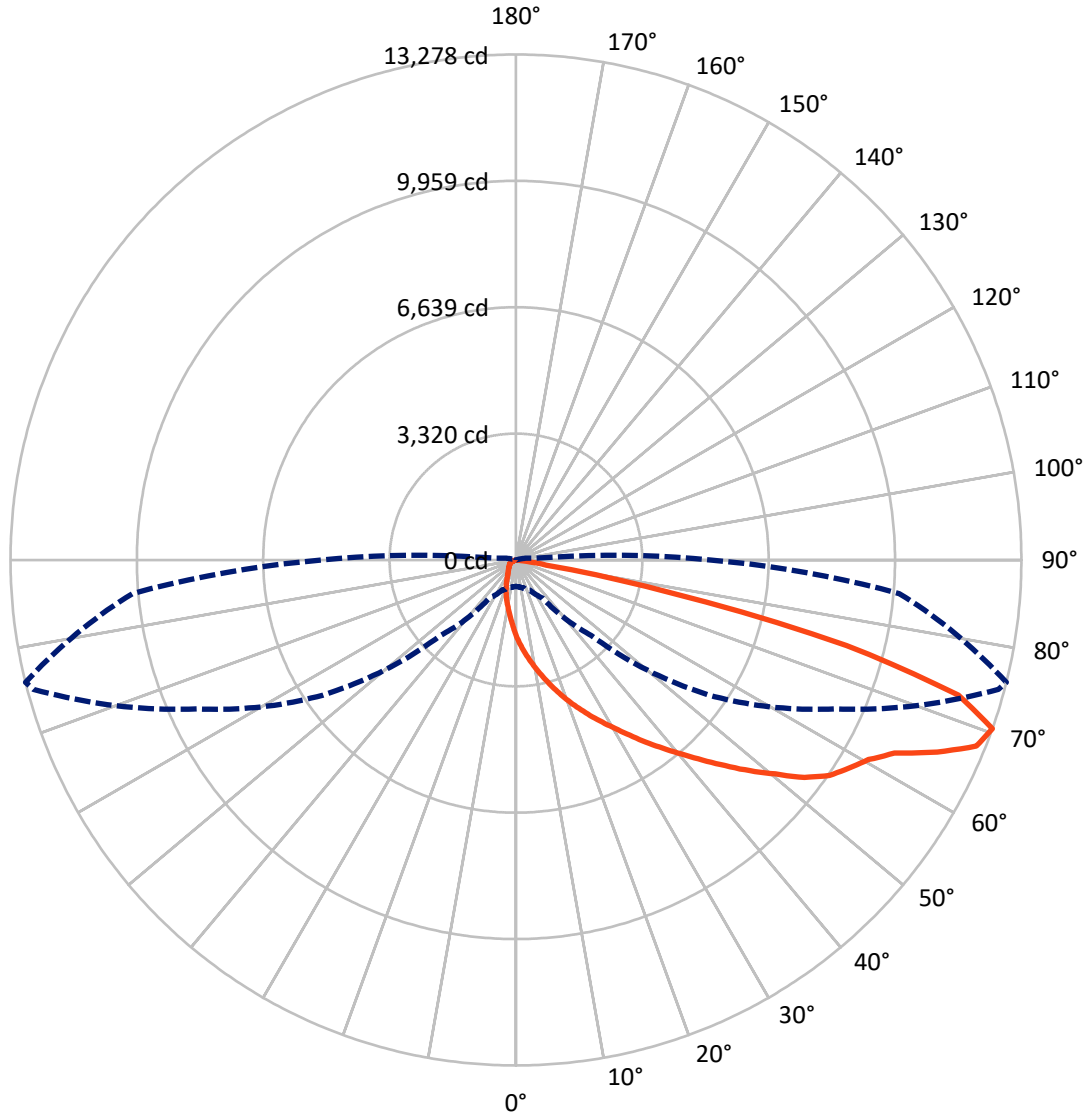
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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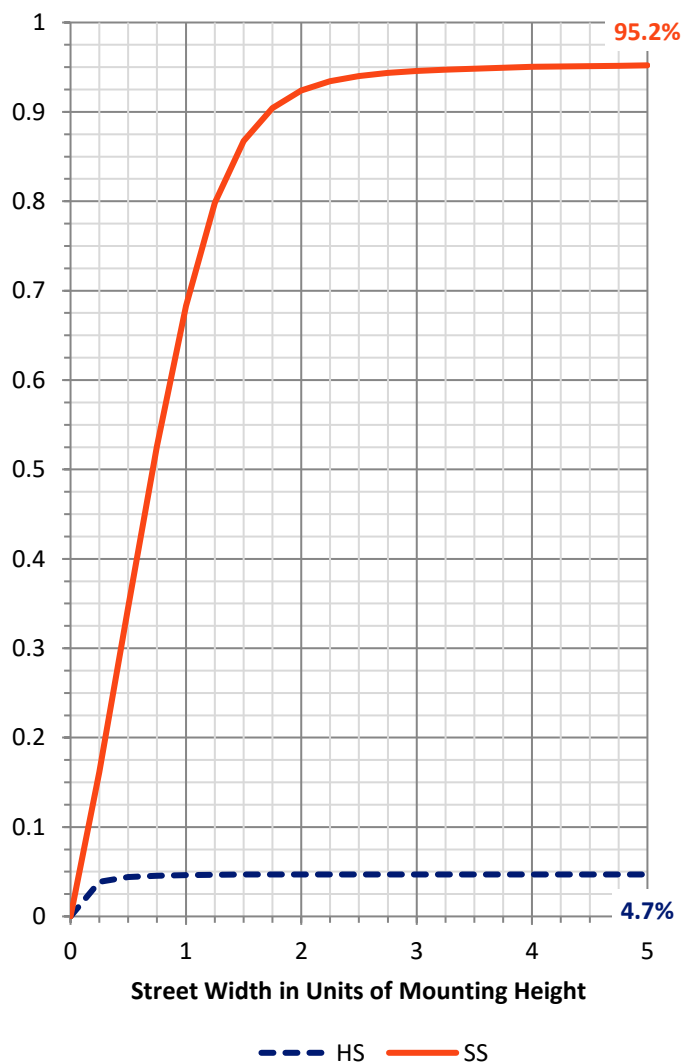
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	707.5	0.0	707.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	14292.6	0.0	14292.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	15000.0	0.0	15000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	1.3
10°-20°	610.5	4.1
20°-30°	1137.0	7.6
30°-40°	2011.0	13.4
40°-50°	3075.3	20.5
50°-60°	3486.7	23.2
60°-70°	2989.0	19.9
70°-80°	1447.7	9.7
80°-90°	53.7	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°	15000.0	100.0
0°-180°	15000.0	100.0

Coefficient of Utilization

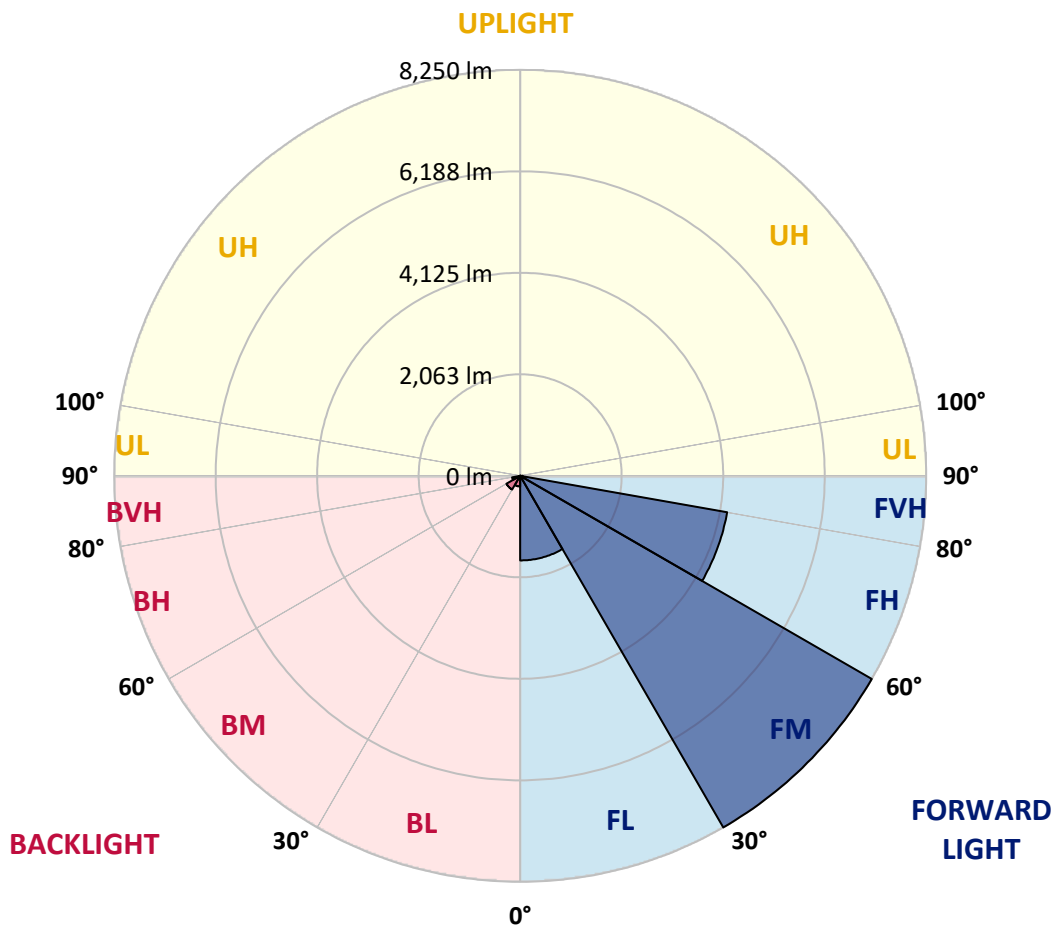


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.6	11.5			
FM (30°-60°)	8250.1	55.0			
FH (60°-80°)	4270.1	28.5			G2/5000
FVH (80°-90°)	52.8	0.4			G1/100
BL (0°-30°)	217.0	1.4	B1/500		
BM (30°-60°)	322.9	2.2	B1/1000		
BH (60°-80°)	166.6	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	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°	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8
2.5°	2744.6	2729.6	2714.6	2657.1	2604.7	2557.3	2467.4	2350.0	2245.1	2222.6	2100.2
5°	3224.0	3206.6	3184.1	3126.6	3059.2	2979.3	2846.9	2667.1	2482.3	2442.4	2215.1
7.5°	3548.7	3533.7	3501.2	3473.8	3406.3	3328.9	3181.6	2971.8	2717.1	2667.1	2347.5
10°	3771.0	3761.0	3756.0	3733.5	3683.5	3621.1	3473.8	3254.0	2954.3	2896.9	2487.3
12.5°	3850.9	3850.9	3875.8	3913.3	3920.8	3900.8	3766.0	3546.2	3204.1	3144.1	2652.2
15°	3743.5	3756.0	3810.9	3930.8	4055.6	4138.1	4053.2	3848.4	3478.8	3413.8	2846.9
17.5°	3713.5	3726.0	3763.5	3868.4	4035.7	4255.4	4297.9	4140.6	3738.5	3683.5	3046.7
20°	3798.4	3810.9	3843.4	3933.3	4060.6	4282.9	4460.2	4422.8	4013.2	3955.8	3249.0
22.5°	4000.7	4008.2	4008.2	4078.1	4190.5	4355.3	4562.6	4690.0	4295.4	4233.0	3448.8
25°	4435.2	4420.3	4360.3	4325.4	4397.8	4532.6	4692.5	4924.7	4610.1	4525.1	3663.6
27.5°	5004.6	5054.6	4909.7	4742.4	4687.5	4764.9	4874.8	5132.0	4914.7	4824.8	3858.4
30°	5776.3	5756.3	5566.5	5326.8	5089.5	5062.1	5099.5	5309.3	5219.4	5134.5	4075.6
32.5°	6410.6	6448.1	6248.3	5956.1	5601.5	5434.2	5394.2	5521.6	5544.1	5489.1	4332.9
35°	7062.4	7102.4	6907.6	6582.9	6160.9	5881.2	5766.3	5783.8	5946.1	5876.2	4602.6
37.5°	7646.8	7681.8	7489.5	7157.3	6735.3	6393.1	6228.3	6093.5	6335.7	6273.3	4887.3
40°	8091.3	8096.3	7966.5	7669.3	7269.7	6915.1	6727.8	6463.1	6747.8	6705.3	5184.4
42.5°	8406.0	8416.0	8321.1	8066.3	7696.7	7367.1	7214.8	6900.1	7222.3	7184.8	5529.1
45°	8553.3	8570.8	8560.8	8326.1	8018.9	7734.2	7684.3	7364.6	7741.7	7706.7	5926.1
47.5°	8413.5	8413.5	8540.8	8508.4	8226.2	8036.4	8093.8	7849.1	8306.1	8273.6	6330.7
50°	7831.6	7839.1	8098.8	8470.9	8306.1	8263.6	8443.4	8323.6	8818.0	8838.0	6815.2
52.5°	6303.2	6290.8	7167.3	7881.5	8251.1	8366.0	8765.6	8808.1	9432.4	9492.3	7297.2
55°	4709.9	4702.5	5541.6	6837.7	7866.6	8313.6	8945.4	9240.1	9956.8	9994.3	7656.8
57.5°	3728.5	3708.5	4170.5	5511.6	6997.5	8078.8	8952.9	9322.5	10249.0	10313.9	8006.4
60°	2866.9	2849.4	3194.1	4100.6	5766.3	7454.5	8738.1	9327.5	10531.2	10646.1	8475.9
62.5°	2050.3	2070.3	2335.0	2941.8	4435.2	6572.9	8458.4	9397.4	11033.2	11163.0	9142.7
65°	1383.5	1373.5	1593.3	2002.9	3154.1	5386.7	8028.9	9544.8	11937.2	12164.5	9941.8
67.5°	961.5	969.0	1068.9	1303.6	2002.9	4135.6	7314.7	9627.2	12871.2	13048.5	10501.2
70°	694.3	704.2	759.2	876.6	1223.7	2804.5	6183.4	9250.1	13123.4	13278.3	10111.7
72.5°	457.0	477.0	559.4	621.8	781.7	1755.6	4555.1	7969.0	12037.1	12152.0	8483.4
75°	247.2	252.2	359.6	464.5	556.9	1093.8	2717.1	5374.2	9005.3	8967.9	5594.0
77.5°	192.3	199.8	222.3	332.1	374.6	601.9	1073.8	2427.4	4265.4	4150.5	1908.0
80°	117.4	122.4	154.8	197.3	262.2	349.6	314.7	659.3	866.6	811.6	279.7
82.5°	69.9	74.9	92.4	164.8	207.3	164.8	109.9	159.8	162.3	159.8	69.9
85°	12.5	12.5	64.9	114.9	109.9	47.4	64.9	52.4	47.4	49.9	15.0
87.5°	0.0	0.0	25.0	35.0	49.9	17.5	25.0	12.5	12.5	12.5	7.5
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°	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8	2007.8
2.5°	2025.3	1940.4	1765.6	1613.3	1460.9	1348.6	1263.6	1176.2	1146.3	1108.8	1088.8
5°	2060.3	1893.0	1545.8	1268.6	1033.9	854.1	739.2	669.3	624.3	591.9	584.4
7.5°	2112.7	1855.5	1368.5	993.9	736.7	556.9	462.0	414.6	389.6	374.6	369.6
10°	2175.2	1823.0	1193.7	774.2	519.4	392.1	339.6	319.7	309.7	304.7	302.2
12.5°	2262.6	1810.6	1046.4	596.9	392.1	322.2	294.7	282.2	274.7	267.2	264.7
15°	2377.4	1815.6	911.5	462.0	324.7	287.2	264.7	252.2	242.2	234.7	234.7
17.5°	2497.3	1823.0	779.2	374.6	294.7	262.2	237.2	219.8	212.3	204.8	202.3
20°	2609.7	1820.5	651.8	319.7	267.2	234.7	209.8	192.3	179.8	172.3	172.3
22.5°	2717.1	1805.6	531.9	287.2	244.7	207.3	179.8	162.3	152.3	144.8	144.8
25°	2832.0	1775.6	434.5	262.2	217.3	182.3	154.8	137.4	129.9	122.4	122.4
27.5°	2921.9	1725.6	354.6	239.7	192.3	157.3	132.4	117.4	109.9	104.9	104.9
30°	3019.3	1653.2	294.7	214.8	167.3	134.9	112.4	99.9	92.4	89.9	89.9
32.5°	3126.6	1573.3	252.2	189.8	142.3	114.9	94.9	87.4	79.9	77.4	77.4
35°	3251.5	1503.4	227.3	164.8	124.9	97.4	82.4	74.9	69.9	69.9	69.9
37.5°	3393.9	1431.0	204.8	144.8	107.4	82.4	69.9	67.4	64.9	62.4	62.4
40°	3548.7	1353.5	184.8	127.4	92.4	69.9	59.9	59.9	57.4	57.4	57.4
42.5°	3723.5	1286.1	167.3	112.4	79.9	59.9	52.4	52.4	49.9	49.9	49.9
45°	3913.3	1223.7	152.3	99.9	69.9	52.4	47.4	45.0	42.5	42.5	42.5
47.5°	4138.1	1188.7	139.8	87.4	59.9	45.0	40.0	37.5	35.0	32.5	32.5
50°	4425.3	1203.7	127.4	72.4	52.4	37.5	32.5	30.0	27.5	25.0	25.0
52.5°	4652.5	1196.2	109.9	62.4	42.5	30.0	25.0	22.5	20.0	17.5	17.5
55°	4817.3	1166.2	94.9	52.4	32.5	25.0	20.0	15.0	12.5	12.5	12.5
57.5°	4979.7	1136.3	79.9	42.5	25.0	17.5	12.5	10.0	10.0	10.0	10.0
60°	5231.9	1093.8	69.9	35.0	20.0	12.5	7.5	7.5	5.0	5.0	5.0
62.5°	5539.1	1041.4	57.4	30.0	15.0	10.0	5.0	5.0	0.0	0.0	0.0
65°	5876.2	949.0	47.4	22.5	12.5	7.5	5.0	0.0	0.0	0.0	0.0
67.5°	5798.8	761.7	40.0	15.0	10.0	5.0	2.5	0.0	0.0	0.0	0.0
70°	5129.5	514.4	32.5	12.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	4018.2	304.7	22.5	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
75°	2572.2	152.3	15.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	861.6	74.9	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	122.4	25.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.5	10.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	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)