

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: P400492

Luminaire Tested: **ARCH-L-PA3-90-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9489 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

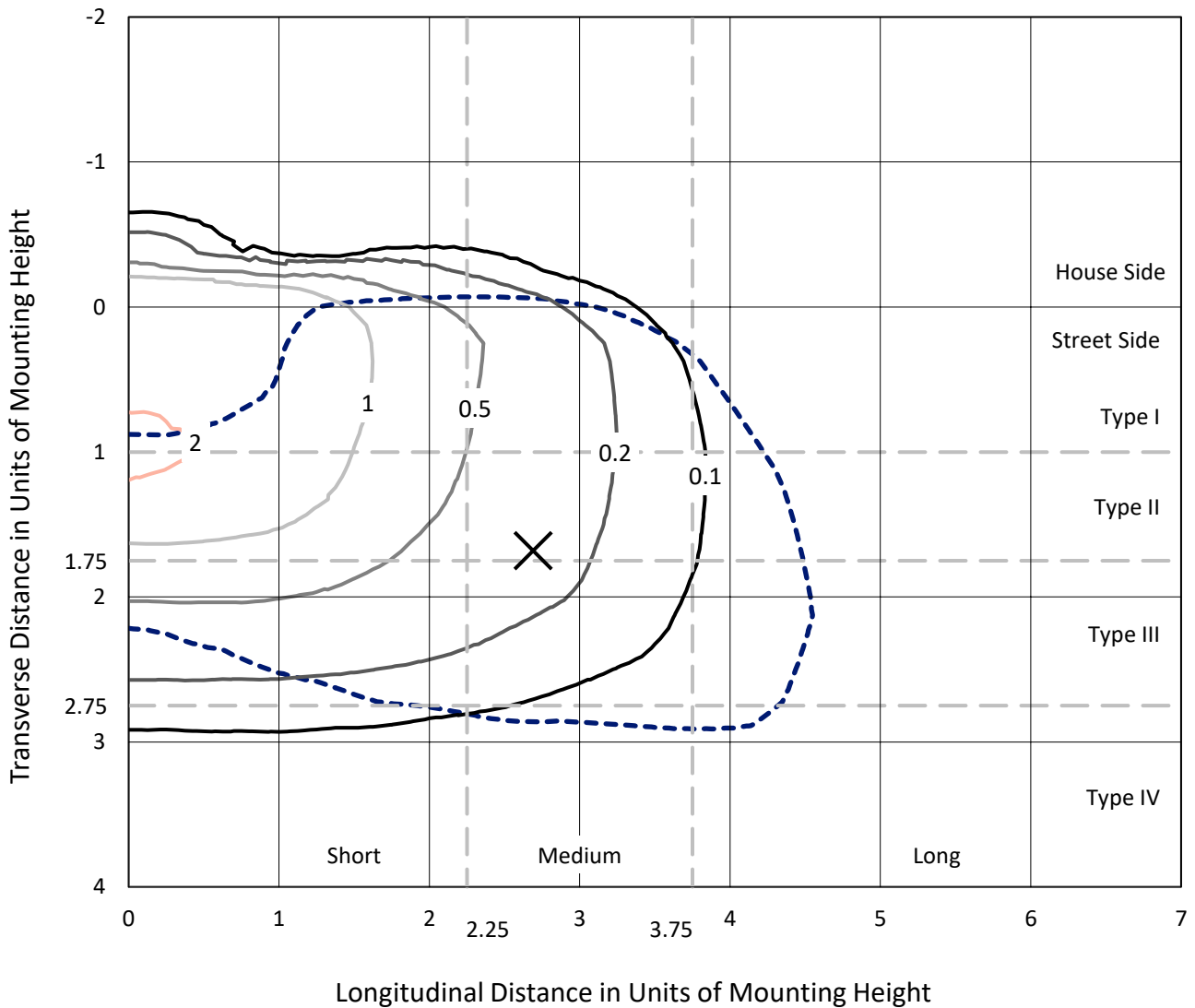
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

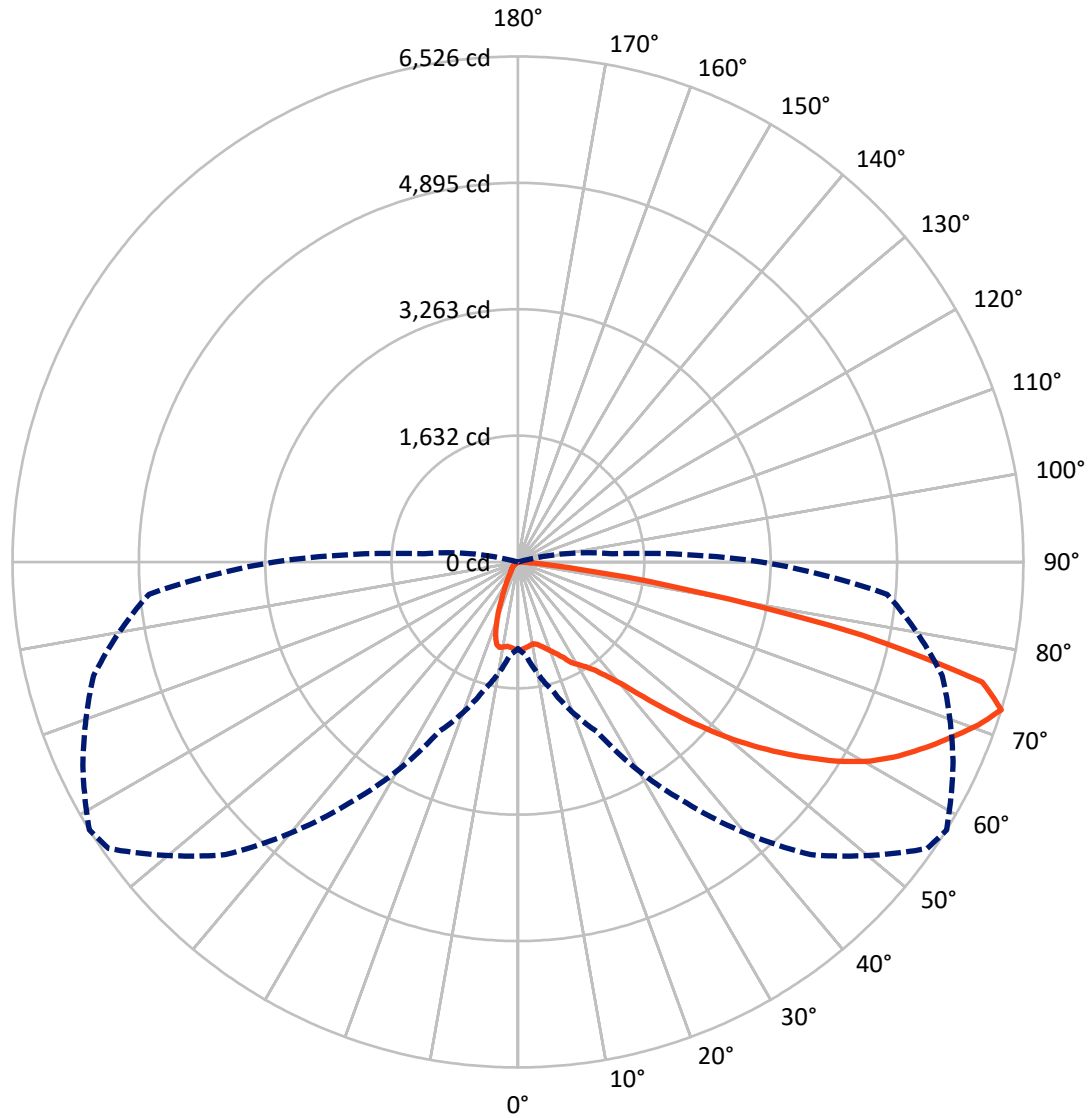
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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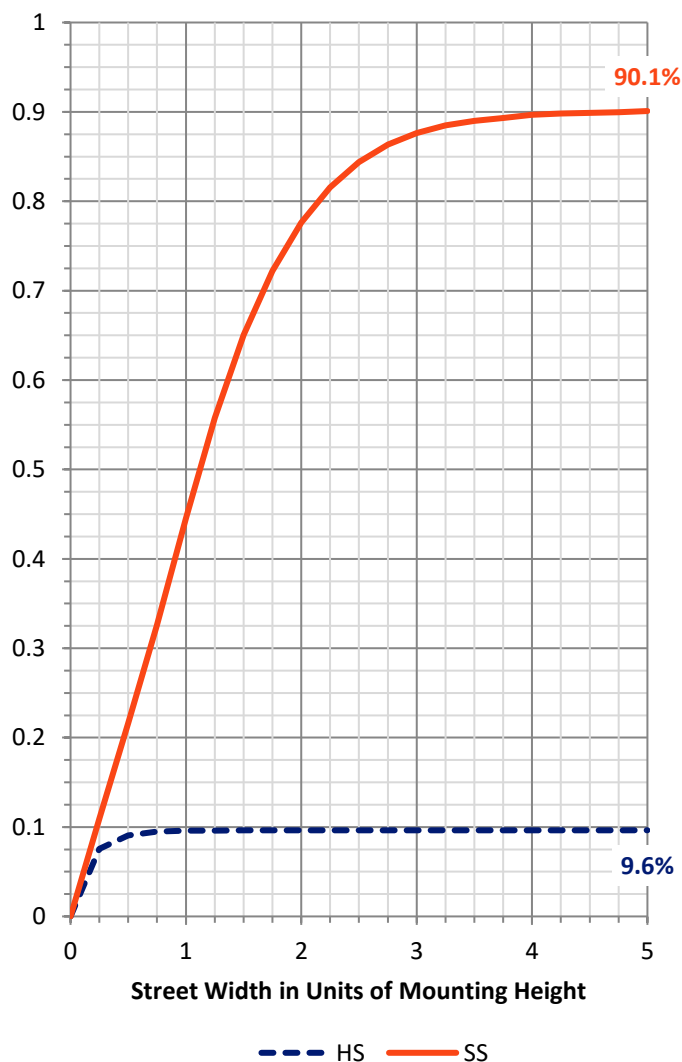
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	922.8	0.0	922.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	8566.3	0.0	8566.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	9489.0	0.0	9489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.1
10°-20°	272.2	2.9
20°-30°	427.6	4.5
30°-40°	737.4	7.8
40°-50°	1402.9	14.8
50°-60°	2221.7	23.4
60°-70°	2592.5	27.3
70°-80°	1623.7	17.1
80°-90°	106.6	1.1
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°	9489.0	100.0
0°-180°	9489.0	100.0

Coefficient of Utilization



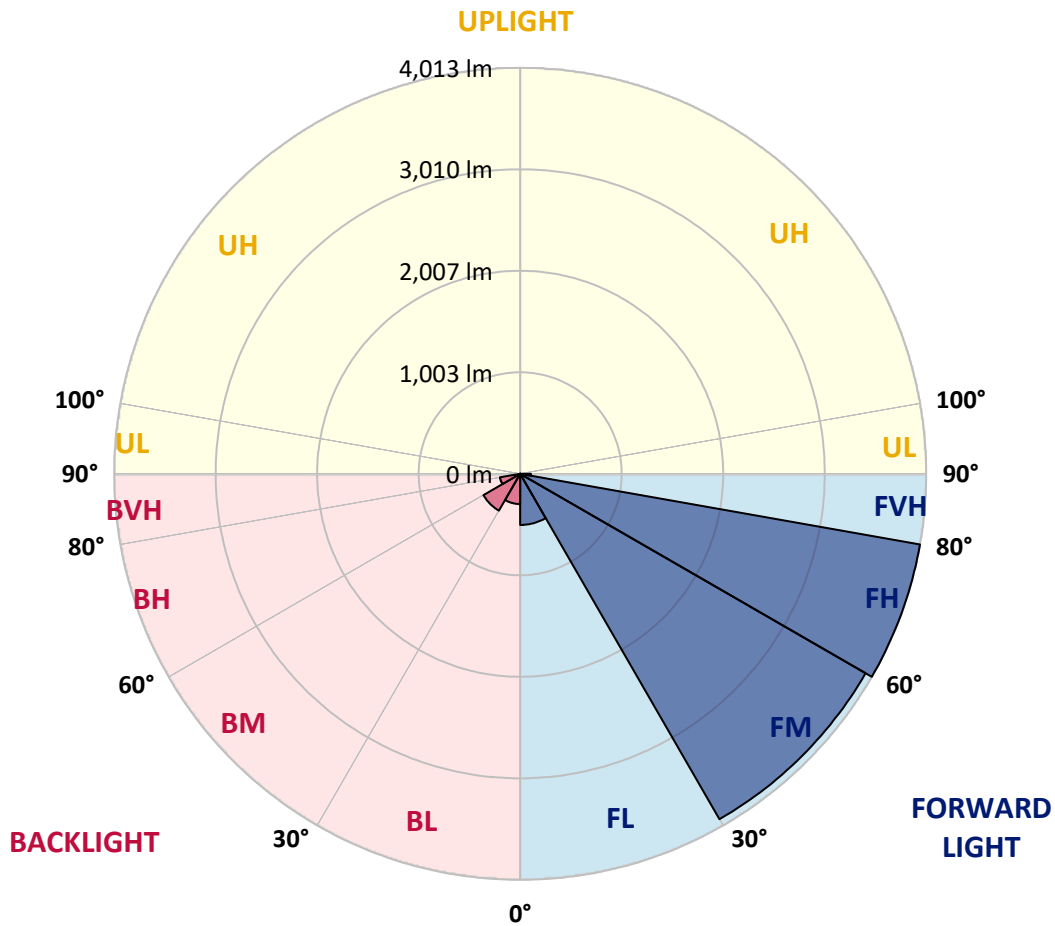
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.4	5.3			
FM (30°-60°)	3942.1	41.5			
FH (60°-80°)	4013.2	42.3			G2/5000
FVH (80°-90°)	105.5	1.1			G2/225
BL (0°-30°)	298.8	3.1	B1/500		
BM (30°-60°)	419.9	4.4	B1/1000		
BH (60°-80°)	203.0	2.1	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6
2.5°	1133.5	1128.4	1126.7	1125.0	1126.7	1128.4	1123.4	1128.4	1125.0	1126.7	1130.1
5°	1092.8	1087.7	1086.0	1087.7	1092.8	1101.3	1104.7	1109.8	1109.8	1114.9	1116.6
7.5°	1047.0	1043.6	1041.9	1045.3	1055.5	1074.1	1084.3	1091.1	1097.9	1108.1	1118.3
10°	1021.5	1019.8	1018.1	1023.2	1033.4	1050.4	1064.0	1074.1	1099.6	1128.4	1147.1
12.5°	1004.6	1004.6	1008.0	1018.1	1031.7	1045.3	1077.5	1091.1	1130.1	1174.3	1199.7
15°	991.0	991.0	996.1	1014.7	1033.4	1065.7	1113.2	1128.4	1174.3	1228.6	1262.5
17.5°	980.8	984.2	987.6	1006.3	1041.9	1096.2	1152.2	1174.3	1230.3	1289.6	1327.0
20°	982.5	985.9	987.6	1006.3	1057.2	1131.8	1203.1	1228.6	1293.0	1355.8	1393.2
22.5°	992.7	997.8	999.5	1024.9	1084.3	1169.2	1260.8	1289.6	1359.2	1425.4	1454.2
25°	1035.1	1038.5	1028.3	1050.4	1123.4	1226.9	1335.5	1366.0	1435.6	1496.7	1520.4
27.5°	1179.3	1182.7	1126.7	1101.3	1153.9	1274.4	1427.1	1469.5	1556.1	1596.8	1600.2
30°	1491.6	1495.0	1384.7	1264.2	1226.9	1315.1	1478.0	1537.4	1649.4	1695.2	1674.8
32.5°	1893.7	1890.4	1739.3	1561.2	1399.9	1386.4	1551.0	1613.8	1735.9	1780.1	1764.8
35°	2297.6	2302.7	2173.7	1905.6	1674.8	1520.4	1644.3	1717.3	1864.9	1927.7	1900.5
37.5°	2574.2	2608.1	2552.1	2262.0	2012.5	1768.2	1795.3	1873.4	2058.3	2143.2	2085.5
40°	2964.5	2956.0	2820.3	2606.4	2385.8	2134.7	2039.7	2077.0	2289.1	2402.8	2312.9
42.5°	3488.8	3471.9	3241.1	3032.4	2786.3	2581.0	2387.5	2380.8	2553.8	2686.2	2555.5
45°	3964.0	3938.5	3780.7	3578.8	3309.0	3073.1	2811.8	2752.4	2872.9	2984.9	2832.1
47.5°	4342.4	4300.0	4188.0	4081.1	4014.9	3648.3	3256.4	3166.4	3227.5	3310.7	3095.2
50°	4790.4	4673.3	4510.4	4445.9	4583.3	4300.0	3684.0	3597.4	3594.0	3641.6	3366.7
52.5°	4994.0	4781.9	4690.2	4744.5	4987.2	4905.7	4145.5	4021.7	3972.5	3977.5	3619.5
55°	4747.9	4724.2	4773.4	4943.1	5260.4	5212.9	4588.4	4435.7	4362.7	4271.1	3862.2
57.5°	4467.9	4540.9	4736.1	5060.2	5606.6	5533.6	5024.5	4851.4	4717.4	4507.0	4132.0
60°	4210.0	4284.7	4607.1	5087.3	5796.6	5842.4	5387.7	5223.1	5024.5	4747.9	4428.9
62.5°	3818.0	3875.7	4328.8	5048.3	5713.5	6022.3	5640.5	5516.6	5331.7	4977.0	4770.0
65°	3376.8	3414.2	3862.2	4736.1	5550.6	6001.9	5849.2	5779.7	5599.8	5216.3	5107.7
67.5°	2893.2	2937.3	3310.7	4174.4	5231.6	5906.9	6046.1	6039.3	5834.0	5481.0	5352.0
70°	2336.6	2340.0	2648.9	3461.7	4675.0	5716.9	6290.4	6305.7	6057.9	5679.5	5362.2
72.5°	1118.3	1209.9	1717.3	2416.4	3799.4	5343.5	6449.9	6526.3	6198.8	5672.7	4783.6
75°	256.2	264.7	500.6	1148.8	2228.0	4101.4	6051.2	6193.7	5856.0	4905.7	3370.1
77.5°	93.3	98.4	140.8	336.0	856.9	2119.4	4330.5	4539.2	4328.8	3171.5	1593.4
80°	62.8	61.1	73.0	149.3	393.7	600.7	2214.5	2338.3	2134.7	1082.6	381.8
82.5°	32.2	33.9	50.9	83.1	264.7	208.7	739.8	804.3	661.8	217.2	71.3
85°	15.3	15.3	28.8	52.6	112.0	73.0	164.6	198.5	178.2	95.0	23.8
87.5°	15.3	15.3	27.2	33.9	57.7	30.5	40.7	50.9	47.5	50.9	8.5
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°	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6	1138.6
2.5°	1130.1	1128.4	1126.7	1130.1	1128.4	1131.8	1131.8	1135.2	1135.2	1131.8	1130.1
5°	1114.9	1111.5	1108.1	1108.1	1106.4	1109.8	1120.0	1128.4	1130.1	1125.0	1123.4
7.5°	1116.6	1116.6	1113.2	1106.4	1094.5	1094.5	1094.5	1104.7	1109.8	1106.4	1104.7
10°	1147.1	1148.8	1140.3	1125.0	1104.7	1086.0	1050.4	997.8	948.6	935.0	929.9
12.5°	1199.7	1201.4	1184.4	1157.3	1114.9	1004.6	868.8	743.2	646.5	619.4	614.3
15°	1262.5	1264.2	1233.6	1189.5	1060.6	804.3	602.4	459.9	375.0	354.7	353.0
17.5°	1327.0	1323.6	1277.8	1192.9	899.4	570.2	366.5	293.6	271.5	266.4	268.1
20°	1389.8	1379.6	1316.8	1130.1	692.3	373.3	268.1	251.1	246.1	242.7	242.7
22.5°	1447.5	1427.1	1349.0	1006.3	485.3	268.1	239.3	235.9	229.1	224.0	222.3
25°	1505.2	1476.3	1369.4	845.1	325.8	234.2	225.7	218.9	210.4	203.6	201.9
27.5°	1574.7	1534.0	1359.2	641.4	244.4	217.2	210.4	200.2	188.4	178.2	174.8
30°	1640.9	1595.1	1301.5	442.9	208.7	200.2	190.1	174.8	159.5	147.6	144.2
32.5°	1724.1	1671.4	1198.0	290.2	181.6	174.8	164.6	145.9	125.6	112.0	108.6
35°	1842.8	1783.4	1065.7	203.6	159.5	147.6	134.1	113.7	91.6	81.5	79.8
37.5°	2009.1	1929.4	899.4	164.6	140.8	123.9	103.5	83.1	67.9	59.4	57.7
40°	2212.8	2090.6	714.4	145.9	125.6	103.5	78.1	59.4	49.2	42.4	42.4
42.5°	2433.4	2241.6	526.0	134.1	110.3	84.8	57.7	42.4	35.6	32.2	30.5
45°	2660.7	2375.7	354.7	123.9	96.7	64.5	40.7	28.8	23.8	23.8	22.1
47.5°	2896.6	2465.6	229.1	112.0	81.5	47.5	27.2	20.4	17.0	17.0	17.0
50°	3130.8	2513.1	162.9	101.8	66.2	32.2	20.4	15.3	13.6	13.6	13.6
52.5°	3300.5	2482.6	130.7	88.2	50.9	23.8	15.3	11.9	10.2	10.2	10.2
55°	3448.1	2430.0	113.7	76.4	37.3	17.0	11.9	10.2	8.5	8.5	8.5
57.5°	3599.1	2362.1	101.8	64.5	27.2	11.9	8.5	6.8	6.8	6.8	6.8
60°	3736.6	2246.7	88.2	50.9	18.7	8.5	6.8	5.1	5.1	5.1	5.1
62.5°	3870.6	2148.3	76.4	39.0	13.6	6.8	3.4	3.4	1.7	1.7	1.7
65°	3947.0	2015.9	61.1	25.5	8.5	5.1	1.7	1.7	0.0	0.0	0.0
67.5°	3923.2	1858.1	42.4	15.3	5.1	3.4	1.7	0.0	0.0	0.0	0.0
70°	3758.6	1646.0	25.5	8.5	5.1	3.4	1.7	0.0	0.0	0.0	0.0
72.5°	3147.8	1218.4	15.3	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0
75°	2102.5	560.0	8.5	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	962.1	168.0	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	193.4	44.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.7	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	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)