

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: P482288

Luminaire Tested: **IFLD-S-SA2D-722-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482288
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8548.2 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

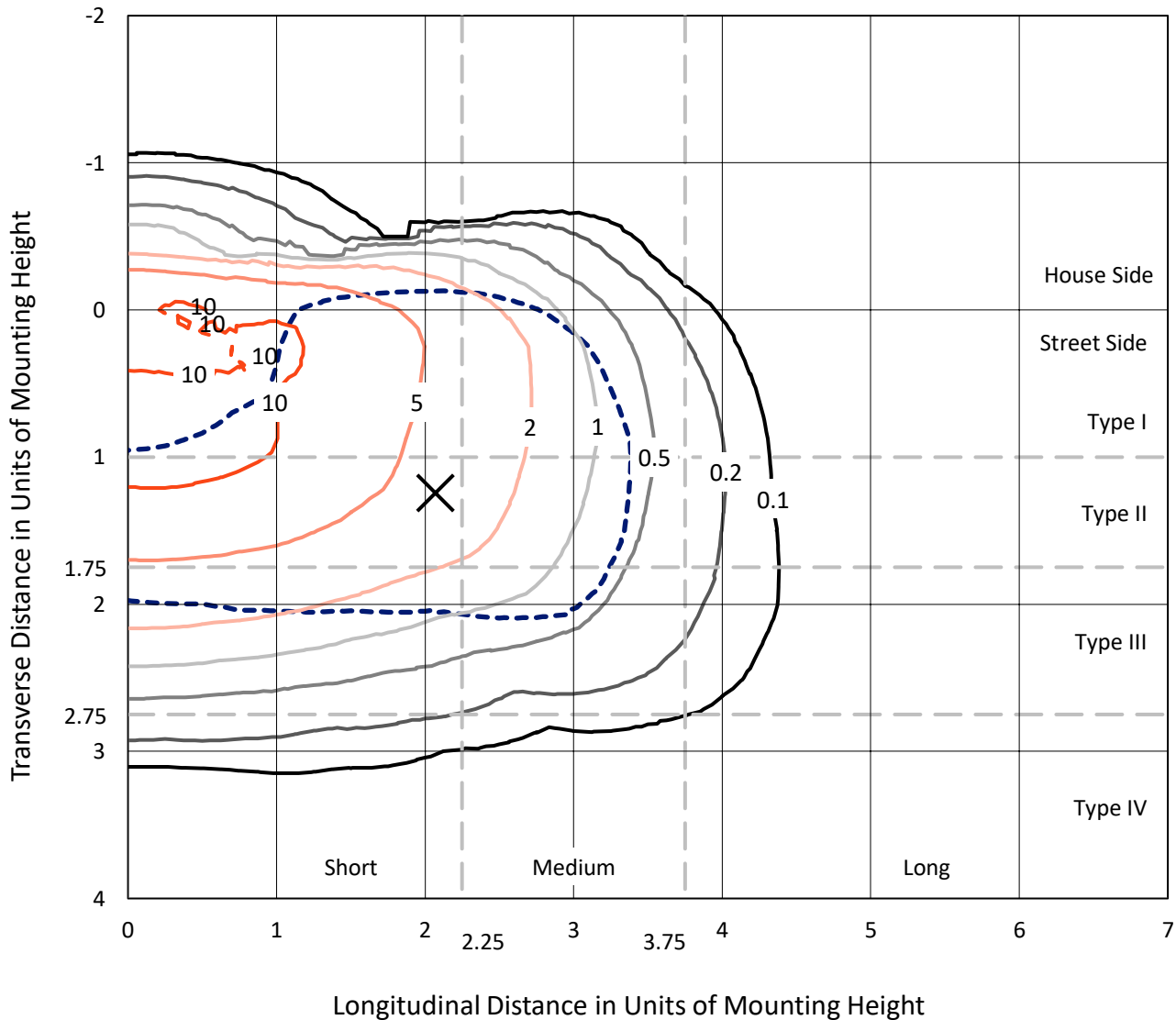
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

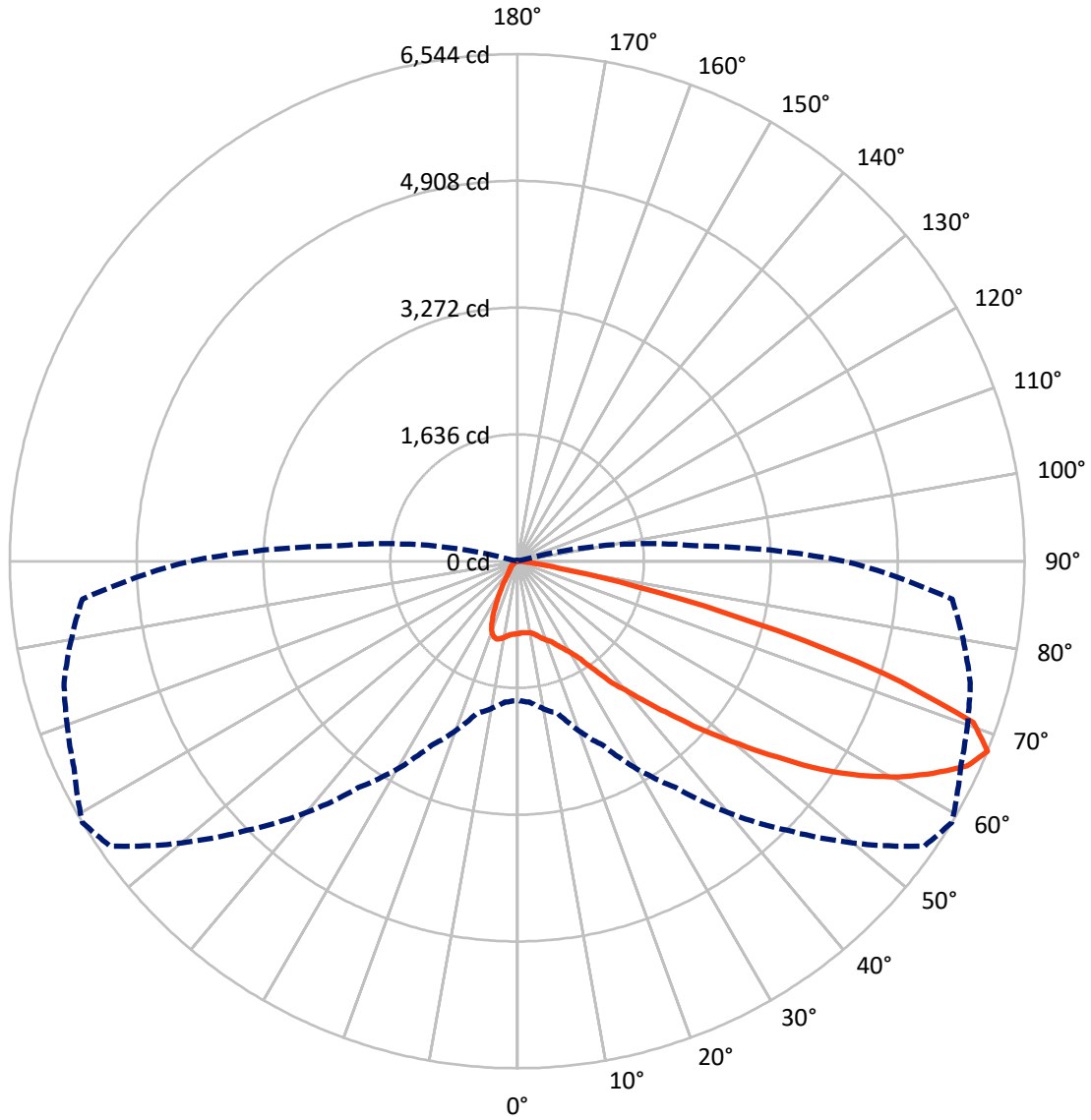
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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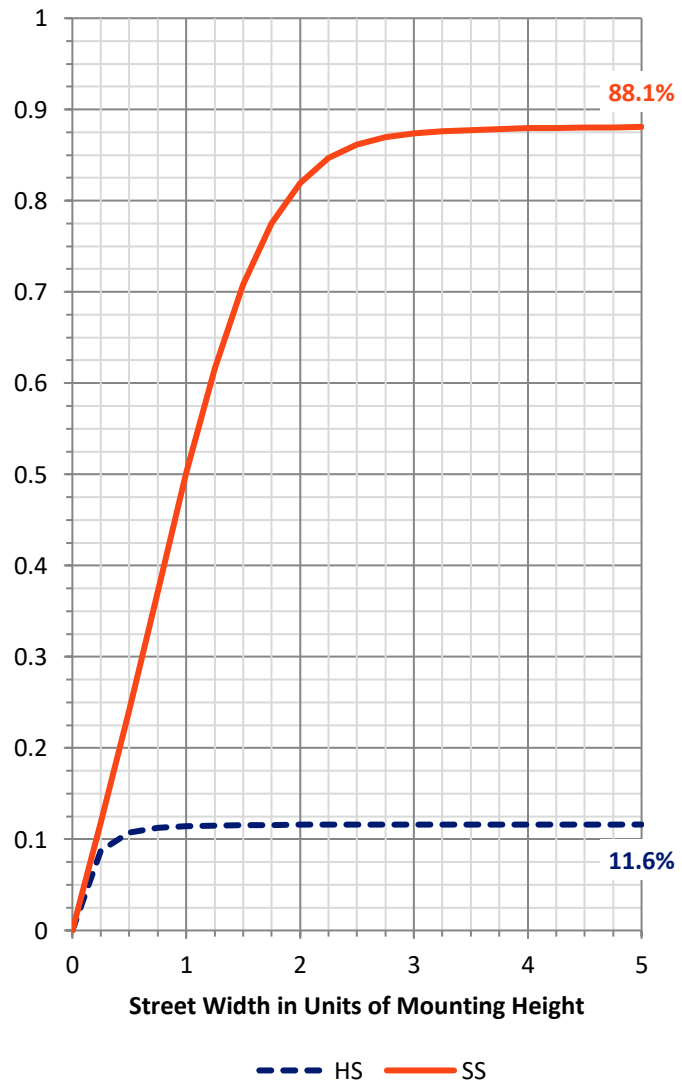
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1004.1	0.0	1004.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7544.0	0.0	7544.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	8548.2	0.0	8548.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.0
10°-20°	257.3	3.0
20°-30°	449.6	5.3
30°-40°	791.6	9.3
40°-50°	1399.3	16.4
50°-60°	2215.6	25.9
60°-70°	2457.8	28.8
70°-80°	852.8	10.0
80°-90°	35.1	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°	8548.2	100.0
0°-180°	8548.2	100.0

Coefficient of Utilization

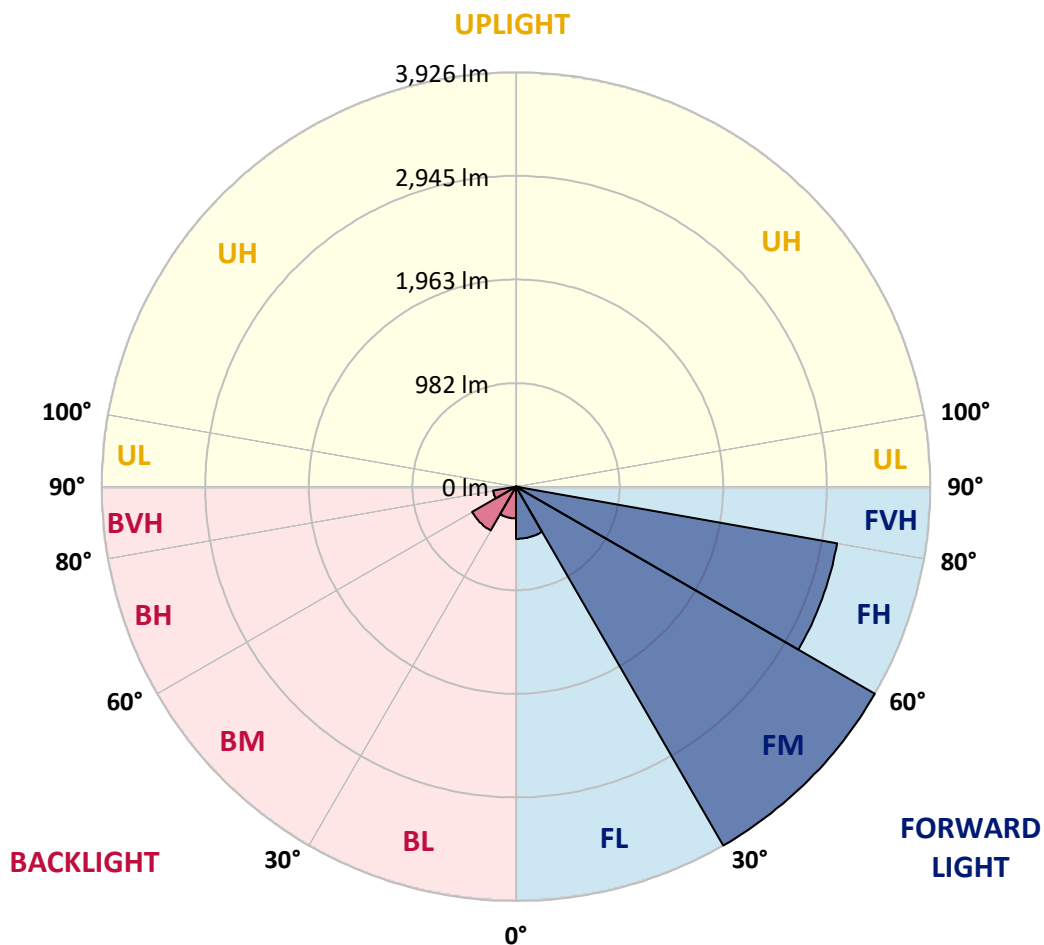


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.0	5.8			
FM (30°-60°)	3926.5	45.9			
FH (60°-80°)	3089.7	36.1			G2/5000
FVH (80°-90°)	32.8	0.4			G1/100
BL (0°-30°)	300.9	3.5	B1/500		
BM (30°-60°)	480.1	5.6	B1/1000		
BH (60°-80°)	220.8	2.6	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6
2.5°	910.4	897.4	909.2	910.4	911.6	922.2	934.0	925.8	924.6	934.0	942.3
5°	873.8	867.9	882.1	889.2	901.0	910.4	929.3	930.5	931.7	942.3	956.5
7.5°	858.5	844.3	860.8	869.1	877.4	899.8	922.2	934.0	950.6	963.6	977.7
10°	827.8	838.4	843.1	857.3	880.9	906.9	934.0	939.9	976.5	987.2	1021.4
12.5°	838.4	845.5	854.9	858.5	884.4	923.4	960.0	962.4	1000.2	1046.2	1063.9
15°	865.6	860.8	864.4	869.1	899.8	931.7	990.7	1001.3	1036.8	1088.7	1132.4
17.5°	923.4	915.1	909.2	908.1	915.1	944.7	1014.3	1046.2	1079.3	1150.1	1172.6
20°	1068.7	1061.6	1038.0	976.5	955.3	967.1	1042.7	1087.5	1133.6	1212.7	1249.3
22.5°	1289.5	1296.6	1241.1	1154.9	1066.3	1020.2	1087.5	1126.5	1199.7	1300.1	1333.2
25°	1550.4	1536.3	1469.0	1368.6	1229.2	1120.6	1159.6	1203.3	1293.0	1375.7	1388.7
27.5°	1754.7	1738.2	1686.2	1564.6	1444.2	1268.2	1254.0	1281.2	1387.5	1461.9	1447.7
30°	1956.6	1962.5	1927.1	1783.1	1634.3	1448.9	1359.1	1370.9	1452.4	1548.1	1516.2
32.5°	2214.1	2199.9	2179.8	2053.5	1877.5	1679.1	1525.6	1506.7	1542.2	1668.5	1630.7
35°	2453.8	2445.5	2418.3	2290.8	2137.3	1921.2	1771.2	1728.7	1720.5	1861.0	1794.9
37.5°	2662.8	2648.6	2607.3	2525.8	2377.0	2195.2	2031.0	1993.2	1992.1	2088.9	1961.4
40°	2838.7	2849.3	2844.6	2754.9	2673.4	2528.2	2276.6	2216.4	2211.7	2263.7	2189.3
42.5°	3066.6	3091.4	3078.4	3060.7	2962.7	2906.0	2621.4	2529.3	2488.0	2594.3	2527.0
45°	3411.4	3420.9	3429.1	3385.4	3287.4	3299.2	2978.1	2868.2	2857.6	3015.8	2864.7
47.5°	3733.8	3709.0	3766.9	3769.2	3764.5	3710.2	3363.0	3281.5	3295.7	3416.1	3260.3
50°	3814.1	3877.9	4037.3	4066.8	4143.5	4193.1	3790.5	3709.0	3732.6	3869.6	3691.3
52.5°	3876.7	3973.5	4132.9	4349.0	4555.7	4673.7	4268.7	4202.6	4201.4	4285.2	4039.6
55°	3986.5	4045.5	4183.7	4481.3	4874.5	5068.1	4845.0	4738.7	4643.0	4702.1	4401.0
57.5°	3975.9	3998.3	4213.2	4580.4	5127.2	5479.1	5318.5	5216.9	5094.1	5059.9	4816.6
60°	3789.3	3842.4	4083.3	4513.1	5283.0	5799.1	5760.1	5656.2	5444.8	5364.5	5135.4
62.5°	3419.7	3490.5	3679.5	4277.0	5056.3	5815.6	6064.8	6025.8	5789.6	5645.6	5551.1
65°	2771.4	2804.5	3021.8	3677.1	4543.8	5561.7	6424.9	6376.5	6159.2	5944.3	5764.8
67.5°	1794.9	1826.7	2035.8	2625.0	3568.5	4906.4	6410.7	6544.2	6309.2	6050.6	5631.4
70°	847.8	839.6	1034.4	1458.3	2286.1	3746.8	5977.4	6240.7	6041.1	5485.0	4677.3
72.5°	258.6	281.0	429.8	645.9	1173.7	2336.9	4685.5	4932.3	4869.8	4382.1	3122.1
75°	114.5	124.0	168.9	264.5	475.9	958.8	2894.2	3113.9	3086.7	2584.8	1425.3
77.5°	73.2	80.3	106.3	151.1	216.1	304.7	1333.2	1546.9	1499.7	908.1	373.1
80°	52.0	55.5	75.6	103.9	135.8	125.2	459.3	545.5	523.1	246.8	100.4
82.5°	28.3	30.7	55.5	76.8	90.9	63.8	128.7	160.6	167.7	109.8	48.4
85°	10.6	13.0	34.2	54.3	47.2	29.5	37.8	46.1	60.2	60.2	22.4
87.5°	0.0	1.2	14.2	23.6	11.8	8.3	10.6	13.0	16.5	28.3	8.3
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°	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6	937.6
2.5°	948.2	939.9	943.5	949.4	936.4	943.5	929.3	939.9	943.5	929.3	936.4
5°	960.0	968.3	963.6	954.1	945.8	948.2	944.7	936.4	943.5	945.8	941.1
7.5°	994.3	984.8	987.2	976.5	960.0	958.8	936.4	930.5	932.9	935.2	927.0
10°	1026.1	1032.0	1020.2	1012.0	984.8	967.1	936.4	903.3	899.8	885.6	897.4
12.5°	1082.8	1068.7	1063.9	1036.8	1009.6	950.6	884.4	833.7	791.2	775.8	760.5
15°	1130.1	1127.7	1119.4	1078.1	1015.5	908.1	782.9	664.8	583.3	532.6	525.5
17.5°	1195.0	1184.4	1169.0	1104.1	971.8	797.1	583.3	434.5	353.1	321.2	309.4
20°	1244.6	1236.3	1215.1	1098.2	892.7	594.0	361.3	276.3	256.2	250.3	251.5
22.5°	1316.6	1290.7	1250.5	1068.7	748.6	395.6	259.8	246.8	243.3	238.5	239.7
25°	1379.2	1355.6	1271.8	1017.9	533.7	262.1	240.9	233.8	227.9	222.0	220.8
27.5°	1434.7	1405.2	1294.2	914.0	334.2	225.5	223.2	214.9	203.1	193.7	190.1
30°	1489.0	1454.8	1300.1	719.1	225.5	204.3	198.4	185.4	170.0	157.1	154.7
32.5°	1580.0	1538.6	1291.8	513.7	194.8	181.8	168.9	153.5	131.1	120.4	118.1
35°	1721.7	1659.1	1281.2	302.3	174.8	160.6	140.5	120.4	103.9	93.3	90.9
37.5°	1884.6	1776.0	1250.5	201.9	160.6	141.7	115.7	95.6	81.5	73.2	70.8
40°	2126.7	1947.2	1132.4	165.3	142.9	120.4	93.3	75.6	64.9	59.0	56.7
42.5°	2393.5	2143.2	950.6	148.8	126.3	102.7	74.4	61.4	53.1	47.2	47.2
45°	2713.6	2347.5	733.3	135.8	112.2	85.0	61.4	49.6	42.5	37.8	35.4
47.5°	3070.2	2532.9	494.8	122.8	94.5	69.7	50.8	37.8	30.7	27.2	27.2
50°	3389.0	2697.0	315.3	107.5	82.7	57.9	41.3	30.7	24.8	20.1	18.9
52.5°	3678.3	2822.2	217.3	94.5	70.8	47.2	34.2	24.8	18.9	15.4	15.4
55°	3974.7	2886.0	160.6	81.5	61.4	40.1	28.3	22.4	16.5	13.0	11.8
57.5°	4217.9	2913.1	122.8	70.8	52.0	31.9	24.8	18.9	14.2	10.6	9.4
60°	4425.8	2900.1	95.6	59.0	41.3	27.2	21.3	15.4	11.8	8.3	7.1
62.5°	4547.4	2822.2	75.6	50.8	33.1	23.6	17.7	13.0	8.3	5.9	4.7
65°	4549.7	2656.9	59.0	37.8	24.8	20.1	15.4	10.6	5.9	2.4	1.2
67.5°	4223.8	2299.1	47.2	29.5	20.1	15.4	11.8	8.3	2.4	0.0	0.0
70°	3304.0	1739.4	39.0	23.6	16.5	13.0	8.3	4.7	1.2	0.0	0.0
72.5°	2105.4	1041.5	31.9	18.9	14.2	9.4	5.9	3.5	0.0	0.0	0.0
75°	880.9	321.2	24.8	16.5	10.6	7.1	4.7	1.2	0.0	0.0	0.0
77.5°	226.7	101.6	20.1	14.2	10.6	5.9	3.5	1.2	0.0	0.0	0.0
80°	67.3	37.8	16.5	11.8	8.3	4.7	2.4	1.2	0.0	0.0	0.0
82.5°	30.7	22.4	14.2	10.6	7.1	4.7	2.4	0.0	0.0	0.0	0.0
85°	11.8	7.1	7.1	5.9	5.9	3.5	1.2	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	2.4	2.4	1.2	1.2	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)