

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: P483460

Luminaire Tested: **IFLD-S-SA3A-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483460
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

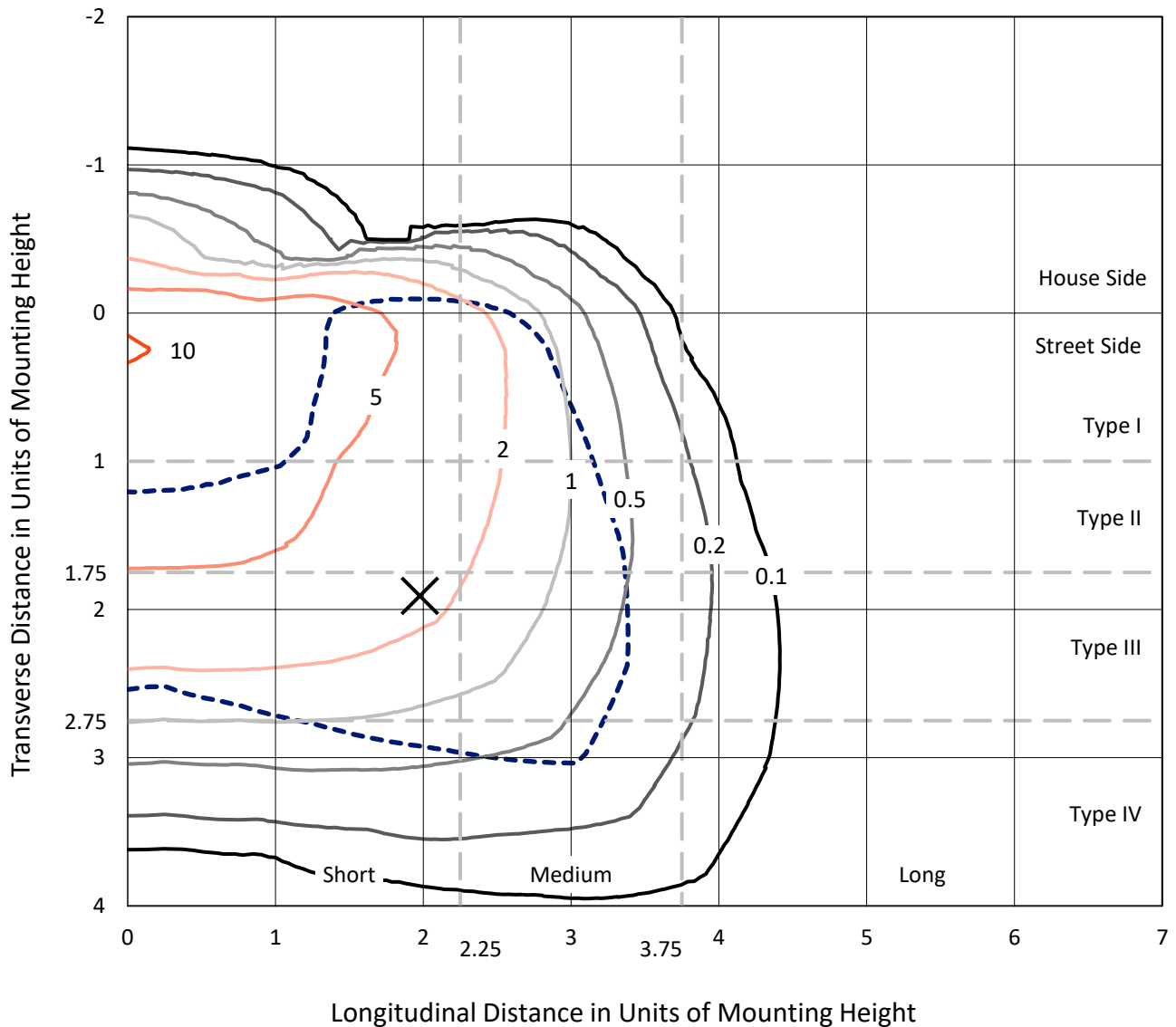
Lumens per Lamp: N/A
Luminaire Lumens: 7477.6 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

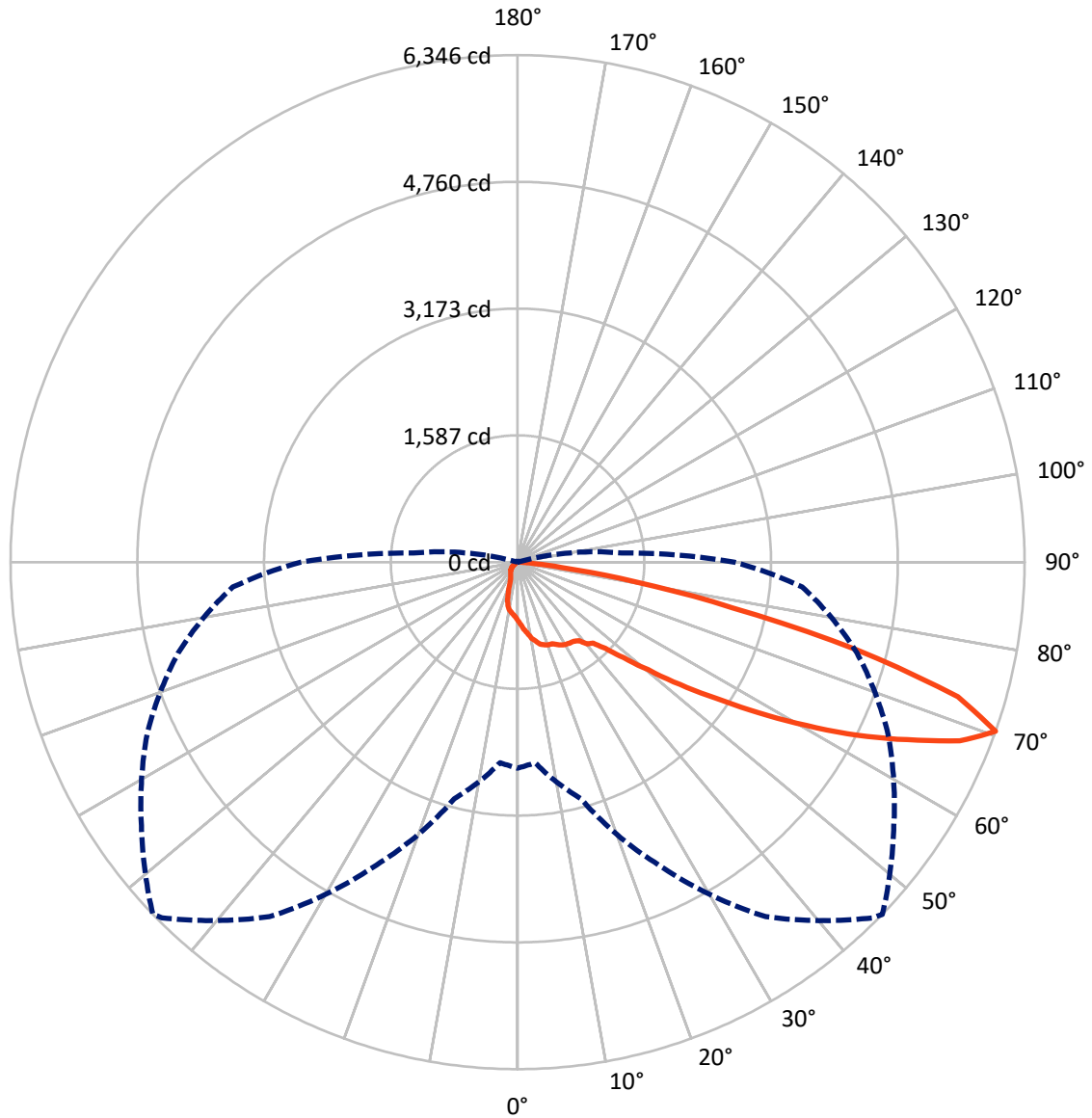
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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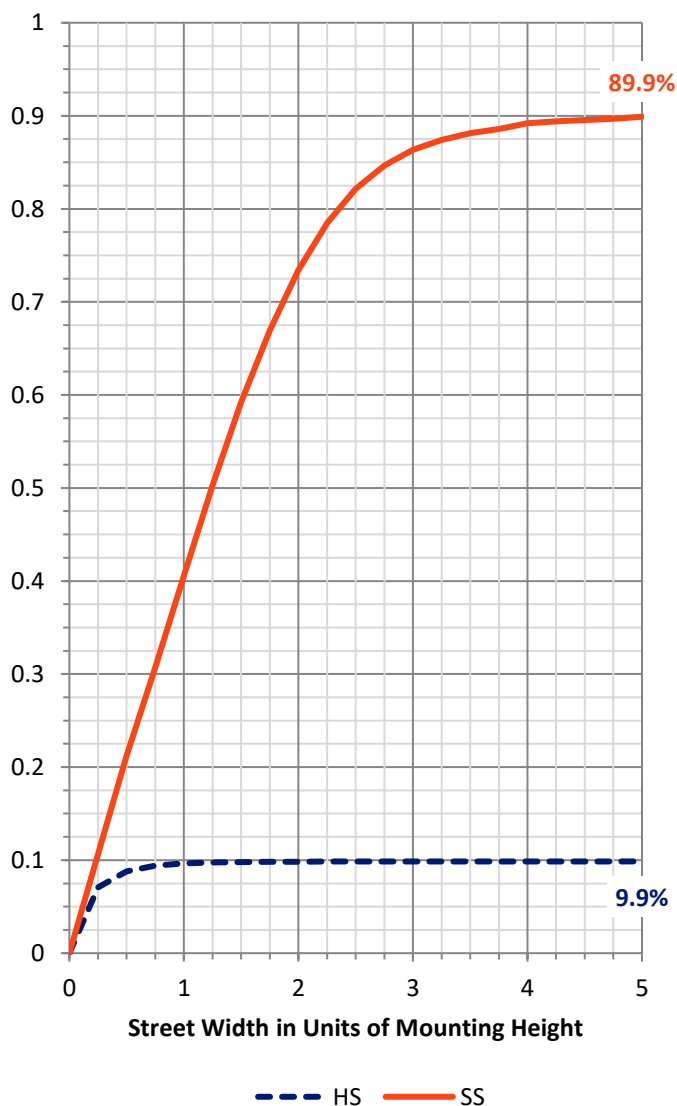
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.1	0.0	744.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6733.6	0.0	6733.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	7477.6	0.0	7477.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.0
10°-20°	221.0	3.0
20°-30°	354.1	4.7
30°-40°	505.4	6.8
40°-50°	872.7	11.7
50°-60°	1670.8	22.3
60°-70°	2474.1	33.1
70°-80°	1225.4	16.4
80°-90°	81.0	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°	7477.6	100.0
0°-180°	7477.6	100.0

Coefficient of Utilization



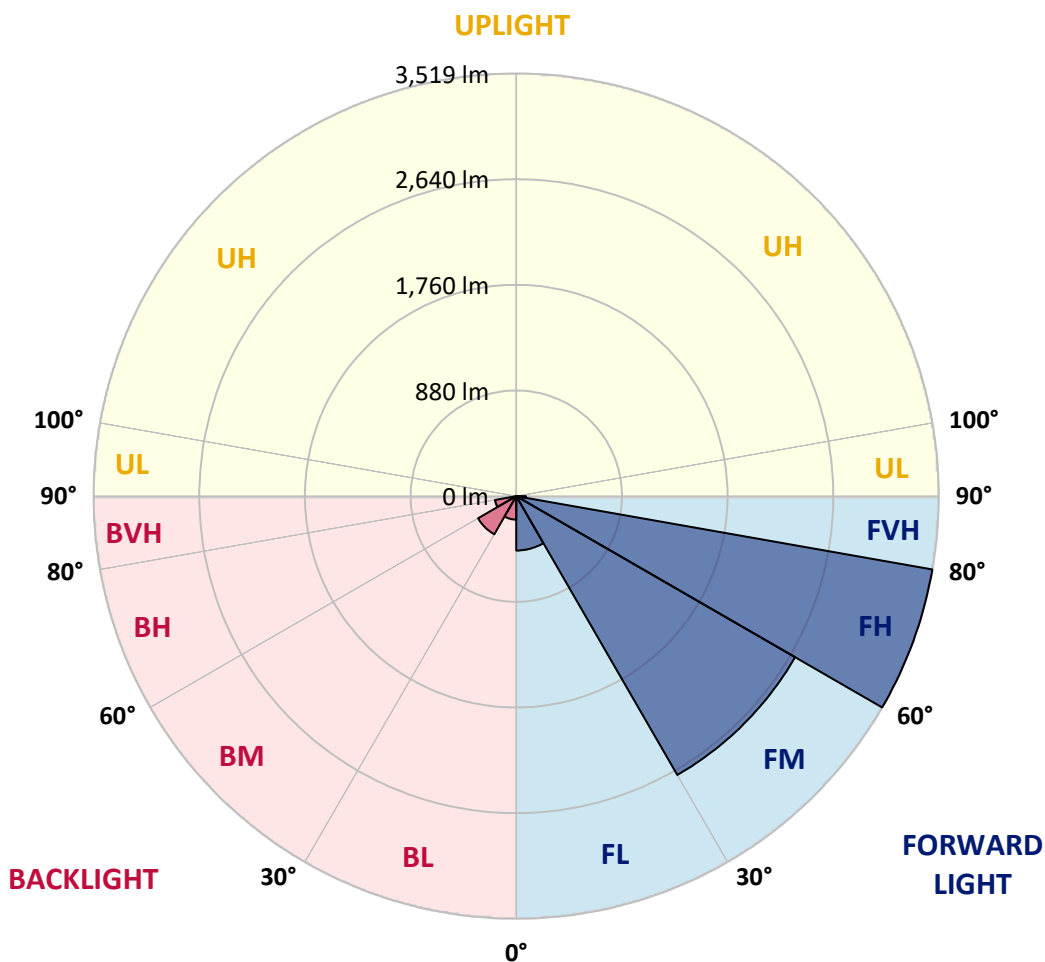
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.8	6.1			
FM (30°-60°)	2681.5	35.9			
FH (60°-80°)	3519.4	47.1			G2/5000
FVH (80°-90°)	79.9	1.1			G1/100
BL (0°-30°)	195.5	2.6	B1/500		
BM (30°-60°)	367.3	4.9	B1/1000		
BH (60°-80°)	180.2	2.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1
2.5°	819.1	813.7	805.1	801.9	793.3	789.0	782.5	779.3	767.4	755.6	748.1
5°	919.2	906.3	910.6	897.7	869.7	847.1	846.0	821.3	794.3	772.8	743.8
7.5°	1020.4	1009.6	993.5	975.2	944.0	910.6	900.9	877.2	839.6	801.9	763.1
10°	1096.8	1089.3	1075.3	1049.4	1006.4	968.7	969.8	930.0	890.1	847.1	794.3
12.5°	1144.2	1147.4	1126.9	1101.1	1063.4	1016.1	1015.0	988.1	942.9	897.7	835.2
15°	1191.5	1203.4	1172.1	1142.0	1093.6	1059.1	1065.6	1033.3	989.2	937.5	868.6
17.5°	1199.1	1202.3	1195.8	1151.7	1116.2	1087.1	1088.2	1066.7	1033.3	977.3	918.1
20°	1186.1	1184.0	1176.4	1144.2	1120.5	1103.3	1104.3	1099.0	1080.7	1035.4	954.7
22.5°	1148.5	1148.5	1138.8	1117.2	1106.5	1122.6	1109.7	1130.2	1110.8	1083.9	1017.1
25°	1118.3	1130.2	1124.8	1110.8	1115.1	1136.6	1143.1	1162.5	1159.2	1125.9	1060.2
27.5°	1150.6	1136.6	1139.9	1123.7	1139.9	1172.1	1175.4	1189.4	1188.3	1161.4	1099.0
30°	1172.1	1185.1	1160.3	1124.8	1142.0	1196.9	1194.7	1213.0	1221.7	1189.4	1135.5
32.5°	1241.0	1230.3	1209.8	1162.5	1164.6	1195.8	1205.5	1229.2	1234.6	1215.2	1171.1
35°	1382.0	1365.9	1276.5	1205.5	1194.7	1209.8	1216.3	1262.6	1272.2	1250.7	1208.7
37.5°	1599.5	1562.9	1455.2	1298.1	1249.6	1246.4	1246.4	1307.8	1344.4	1294.8	1264.7
40°	1910.5	1858.9	1742.6	1469.2	1321.8	1334.7	1347.6	1381.0	1376.6	1344.4	1337.9
42.5°	2306.6	2266.8	2140.9	1756.6	1459.5	1394.9	1384.2	1429.4	1497.2	1484.3	1480.0
45°	2637.1	2639.2	2558.5	2150.5	1697.4	1533.8	1541.3	1575.8	1689.9	1680.2	1679.1
47.5°	2878.2	2848.0	2836.2	2530.5	2044.0	1797.5	1786.7	1810.4	1959.0	2020.3	2048.3
50°	3097.7	3077.3	3049.3	2899.7	2460.5	2127.9	2117.2	2119.3	2346.4	2432.5	2501.4
52.5°	3370.0	3395.9	3303.3	3211.8	2999.8	2557.4	2545.6	2503.6	2785.6	2904.0	2985.8
55°	3705.9	3657.4	3553.0	3600.4	3515.4	3021.3	2999.8	2950.3	3286.1	3335.6	3421.7
57.5°	3780.1	3743.5	3851.2	4019.1	4100.9	3565.9	3557.3	3468.0	3706.9	3661.7	3905.0
60°	3965.3	3975.0	4124.6	4458.2	4600.3	4194.5	4152.5	3995.4	4114.9	4123.5	4382.9
62.5°	4155.8	4133.2	4467.9	4788.7	5007.2	4789.7	4775.8	4463.6	4599.2	4489.4	4832.8
65°	4015.9	4050.3	4529.3	5066.4	5534.6	5372.1	5360.2	4914.6	4988.9	4852.2	5015.8
67.5°	3518.6	3448.6	4119.2	4939.4	5805.8	5982.3	5969.4	5406.5	5208.4	4850.0	4635.8
70°	2578.9	2518.7	3065.4	4182.7	5417.3	6294.5	6346.1	5748.8	5119.1	4398.0	3576.7
72.5°	1263.6	1264.7	1717.9	2836.2	4286.0	5736.9	5762.8	5270.9	4398.0	3242.0	2025.7
75°	373.5	377.8	636.1	1390.6	2770.5	4357.1	4386.1	4000.8	3048.2	1674.8	691.0
77.5°	136.7	136.7	211.0	522.0	1382.0	2750.1	2747.9	2456.2	1543.5	567.2	161.5
80°	71.0	74.3	109.8	213.1	598.4	1432.6	1486.4	1202.3	586.6	238.9	47.4
82.5°	29.1	32.3	60.3	109.8	287.4	502.7	550.0	471.4	255.1	166.8	21.5
85°	8.6	9.7	29.1	61.4	113.0	125.9	139.9	158.2	160.4	129.2	9.7
87.5°	1.1	1.1	11.8	20.5	24.8	26.9	31.2	31.2	81.8	90.4	5.4
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°	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1
2.5°	739.5	734.1	725.5	706.1	701.8	687.8	686.7	673.8	678.1	669.5	666.3
5°	734.1	722.2	698.5	683.5	668.4	658.7	652.3	646.9	645.8	641.5	639.4
7.5°	743.8	727.6	691.0	667.3	641.5	632.9	618.9	617.8	610.3	602.8	602.8
10°	776.0	747.0	707.2	667.3	634.0	606.0	573.7	550.0	541.4	522.0	524.2
12.5°	801.9	776.0	717.9	677.0	626.4	562.9	491.9	437.0	411.2	386.4	396.1
15°	838.5	800.8	738.4	679.2	597.4	487.6	371.3	310.0	286.3	280.9	279.9
17.5°	878.3	838.5	764.2	673.8	538.2	376.7	273.4	237.9	242.2	248.6	247.6
20°	922.4	874.0	783.6	655.5	444.5	273.4	223.9	222.8	229.3	238.9	241.1
22.5°	968.7	926.7	807.3	600.6	331.5	219.6	215.3	215.3	219.6	231.4	229.3
25°	1020.4	964.4	819.1	515.6	237.9	202.4	204.5	208.8	211.0	220.7	221.7
27.5°	1060.2	1006.4	822.3	413.3	193.7	187.3	192.7	198.0	201.3	208.8	212.0
30°	1096.8	1059.1	805.1	307.8	177.6	174.4	176.5	184.1	190.5	197.0	197.0
32.5°	1143.1	1089.3	765.3	218.5	167.9	162.5	161.5	164.7	172.2	179.8	179.8
35°	1190.4	1139.9	701.8	175.4	159.3	151.8	147.5	144.2	147.5	152.8	157.1
37.5°	1259.3	1216.3	622.1	161.5	152.8	142.1	133.5	125.9	120.6	119.5	122.7
40°	1357.3	1302.4	519.9	151.8	145.3	132.4	119.5	106.6	94.7	87.2	88.3
42.5°	1505.8	1429.4	409.0	146.4	139.9	121.6	103.3	85.0	70.0	62.4	62.4
45°	1717.9	1597.3	300.3	141.0	133.5	108.7	85.0	63.5	48.4	44.1	45.2
47.5°	2037.5	1799.7	215.3	132.4	124.9	94.7	66.7	45.2	35.5	33.4	34.4
50°	2455.1	2039.7	167.9	122.7	114.1	79.6	49.5	33.4	28.0	26.9	28.0
52.5°	2893.2	2281.9	147.5	114.1	97.9	63.5	36.6	26.9	23.7	22.6	23.7
55°	3267.8	2437.9	128.1	101.2	78.6	47.4	29.1	23.7	20.5	17.2	17.2
57.5°	3646.7	2516.5	101.2	84.0	58.1	35.5	24.8	20.5	17.2	14.0	12.9
60°	3954.5	2572.5	72.1	62.4	40.9	28.0	21.5	18.3	14.0	10.8	9.7
62.5°	4156.9	2412.1	52.7	47.4	30.1	23.7	18.3	15.1	10.8	7.5	7.5
65°	4056.8	2190.4	40.9	33.4	22.6	18.3	15.1	10.8	7.5	4.3	3.2
67.5°	3640.2	1784.6	33.4	24.8	17.2	14.0	11.8	8.6	4.3	1.1	1.1
70°	2715.6	1307.8	26.9	18.3	14.0	10.8	8.6	5.4	2.2	1.1	0.0
72.5°	1485.4	715.8	21.5	15.1	10.8	8.6	6.5	4.3	2.2	0.0	0.0
75°	490.8	190.5	16.1	10.8	6.5	5.4	4.3	3.2	1.1	0.0	0.0
77.5°	118.4	49.5	12.9	9.7	5.4	3.2	2.2	1.1	1.1	0.0	0.0
80°	36.6	20.5	9.7	6.5	4.3	3.2	1.1	0.0	0.0	0.0	0.0
82.5°	15.1	9.7	4.3	4.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	7.5	5.4	3.2	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	2.2	1.1	1.1	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)