

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: P483380

Luminaire Tested: **IFLD-S-SA2D-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483380
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

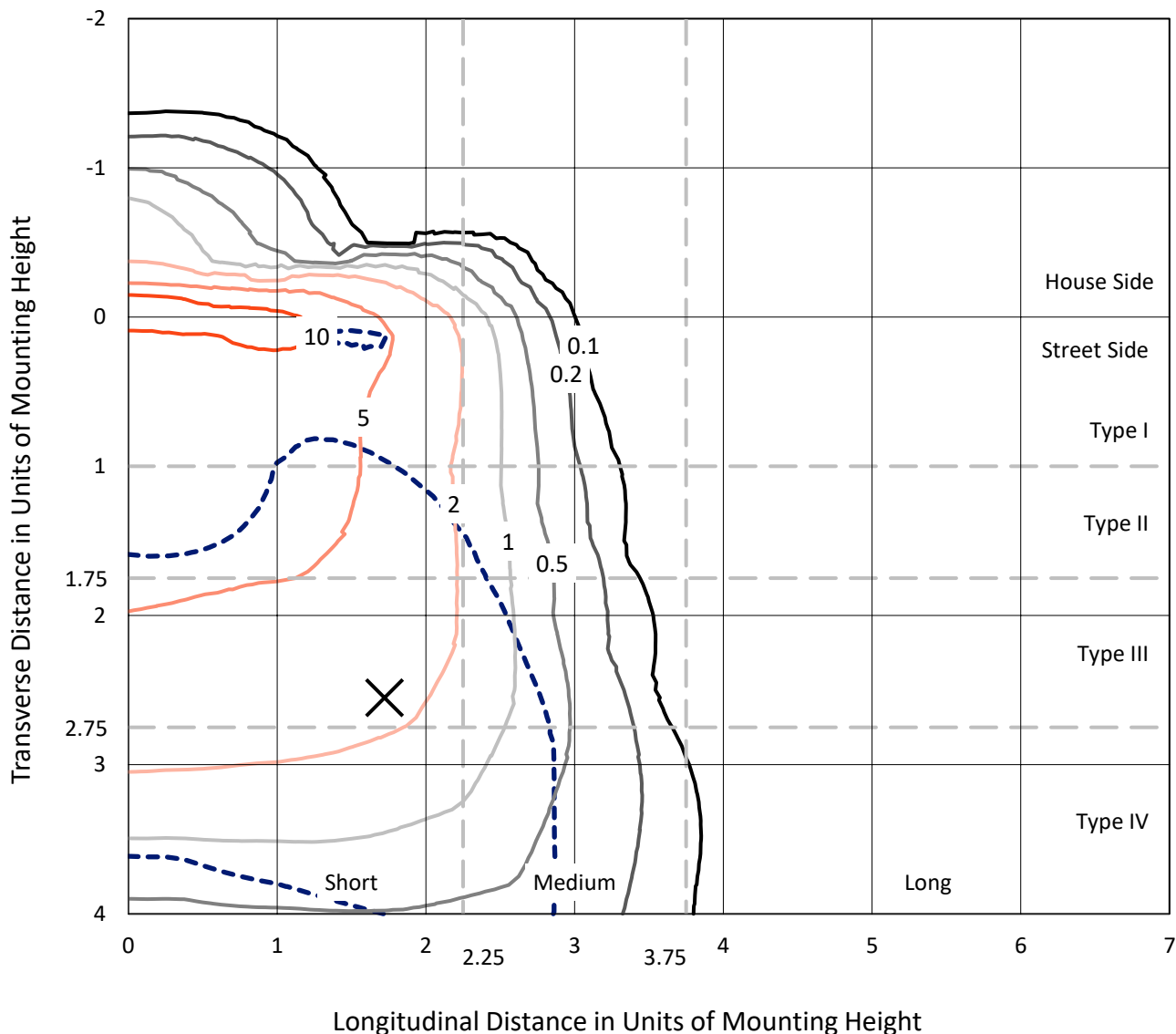
Lumens per Lamp: N/A
Luminaire Lumens: 8985.9 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

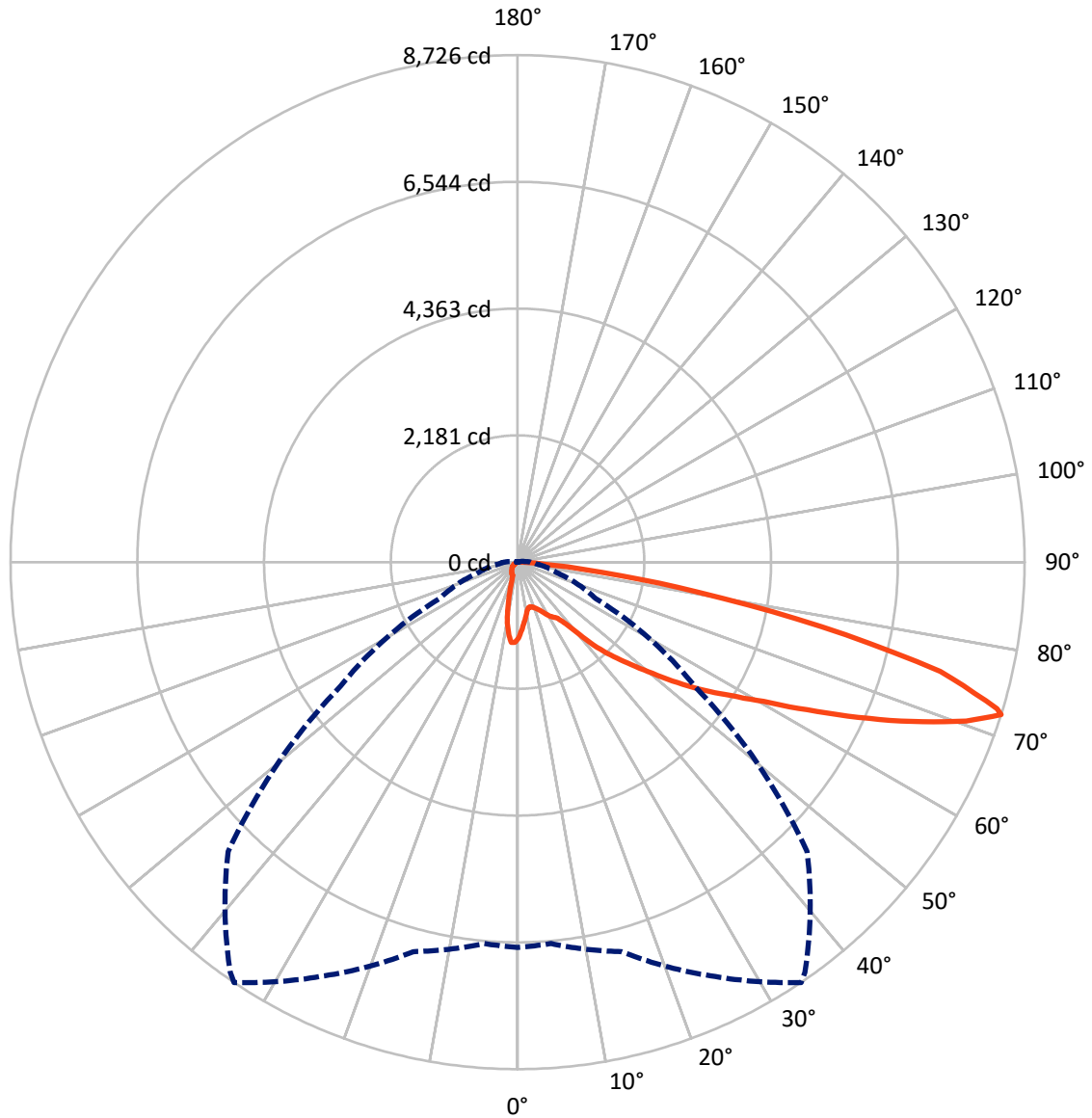
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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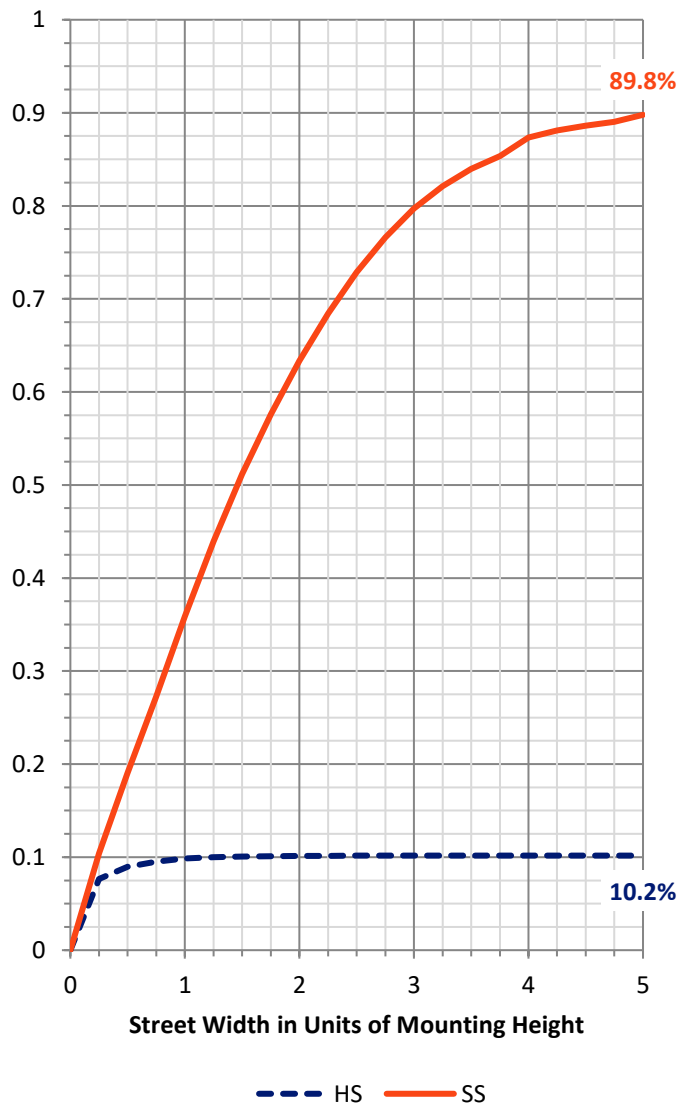
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.0	0.0	920.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8066.0	0.0	8066.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	8985.9	0.0	8985.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.3
10°-20°	258.4	2.9
20°-30°	390.0	4.3
30°-40°	632.9	7.0
40°-50°	1190.1	13.2
50°-60°	1945.8	21.7
60°-70°	2586.7	28.8
70°-80°	1732.3	19.3
80°-90°	135.8	1.5
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°	8985.9	100.0
0°-180°	8985.9	100.0

Coefficient of Utilization

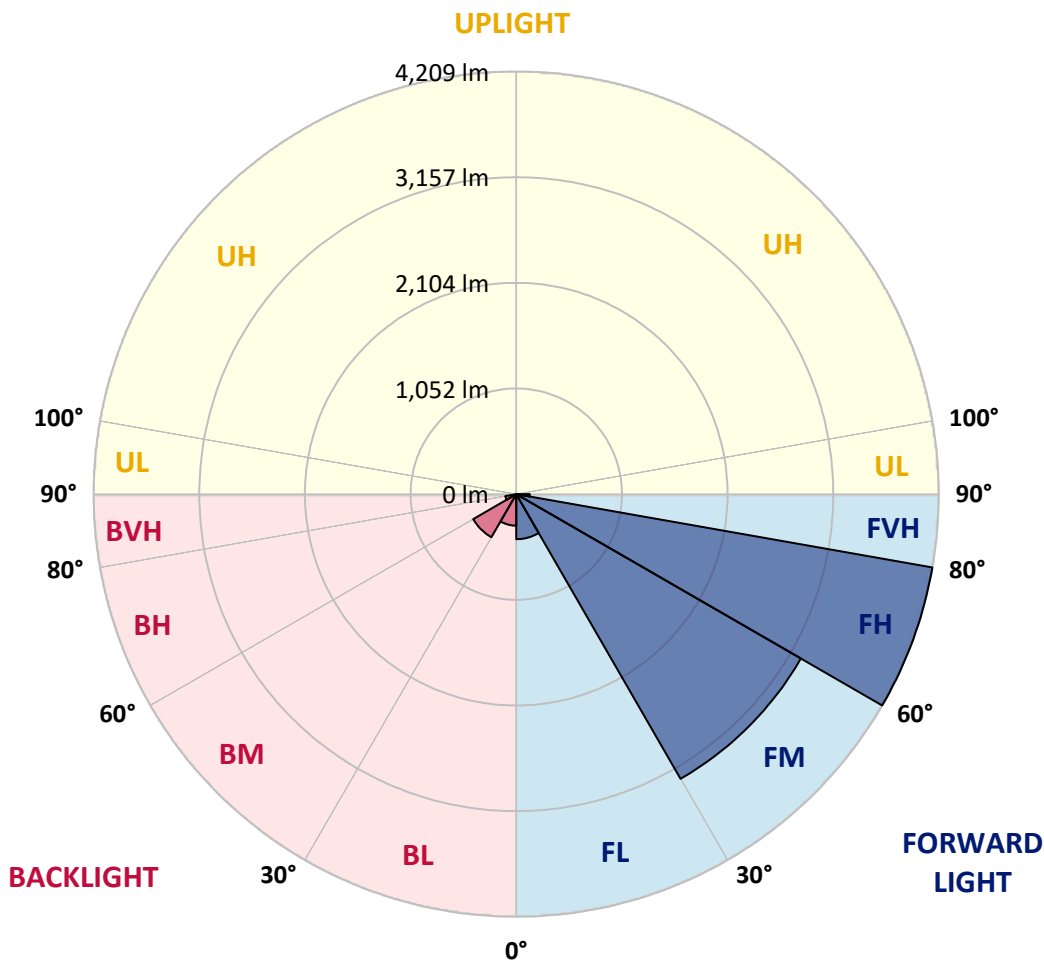


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.6	5.0			
FM (30°-60°)	3273.6	36.4			
FH (60°-80°)	4208.9	46.8			G2/5000
FVH (80°-90°)	134.9	1.5			G2/225
BL (0°-30°)	313.9	3.5	B1/500		
BM (30°-60°)	495.2	5.5	B1/1000		
BH (60°-80°)	110.0	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6
2.5°	1162.7	1160.1	1167.9	1180.8	1193.8	1188.6	1213.3	1239.3	1257.5	1282.2	1312.1
5°	1015.9	1022.4	1030.2	1056.1	1073.0	1076.9	1122.4	1156.2	1212.0	1269.2	1322.4
7.5°	882.1	889.9	905.4	934.0	969.1	978.2	1023.7	1091.2	1164.0	1239.3	1326.3
10°	784.6	792.4	809.3	827.5	874.3	874.3	936.6	1030.2	1125.0	1213.3	1327.6
12.5°	763.8	767.7	766.4	780.7	810.6	817.1	878.2	980.8	1091.2	1204.2	1348.4
15°	788.5	791.1	778.1	770.3	796.3	802.8	860.0	950.9	1069.1	1209.4	1382.2
17.5°	837.9	828.8	802.8	791.1	813.2	817.1	870.4	949.6	1066.5	1223.7	1421.2
20°	866.5	876.9	831.4	809.3	840.5	845.7	902.8	970.4	1079.5	1248.4	1475.7
22.5°	917.1	922.3	861.3	847.0	876.9	876.9	941.8	1012.0	1110.7	1288.7	1540.7
25°	988.6	982.1	910.6	896.4	924.9	936.6	1001.6	1078.2	1158.8	1326.3	1600.4
27.5°	1044.4	1048.3	989.9	952.2	1000.3	1008.1	1078.2	1149.7	1195.1	1357.5	1673.2
30°	1127.6	1119.8	1057.4	1014.6	1074.3	1075.6	1143.2	1217.2	1265.3	1413.4	1782.3
32.5°	1226.3	1210.7	1139.3	1078.2	1126.3	1138.0	1206.8	1314.6	1374.4	1518.6	1951.2
35°	1435.5	1397.8	1280.9	1186.0	1189.9	1195.1	1301.7	1456.2	1525.1	1652.4	2177.2
37.5°	1740.7	1725.2	1592.6	1412.1	1343.2	1327.6	1447.2	1643.3	1729.0	1829.1	2470.8
40°	2043.4	2021.3	1897.9	1761.5	1636.8	1605.6	1665.4	1891.4	1969.4	2074.6	2772.2
42.5°	2379.9	2340.9	2195.4	2085.0	2007.0	1973.3	1949.9	2203.2	2291.5	2363.0	3067.1
45°	2720.2	2656.6	2446.1	2361.7	2320.1	2301.9	2299.3	2595.5	2648.8	2663.1	3394.4
47.5°	3019.0	2950.2	2759.2	2664.4	2633.2	2628.0	2773.5	3047.6	3006.0	2968.4	3759.5
50°	3248.9	3204.8	3067.1	3033.3	3009.9	3000.8	3341.2	3512.7	3320.4	3254.1	4080.3
52.5°	3604.9	3506.2	3350.3	3362.0	3443.8	3445.1	3916.7	3954.3	3581.5	3450.3	4383.0
55°	3889.4	3824.4	3697.1	3680.2	3895.9	3919.3	4432.4	4289.5	3727.0	3637.4	4494.7
57.5°	4224.5	4194.7	4102.4	4105.0	4331.1	4380.4	4891.0	4572.7	3847.8	3758.2	4511.6
60°	4709.1	4623.4	4575.3	4597.4	4863.7	4911.7	5335.2	4776.6	3906.3	3837.4	4470.1
62.5°	5244.3	5144.3	5092.3	5205.3	5593.8	5601.5	5673.0	4957.2	3869.9	3858.2	4202.5
65°	5888.6	5789.9	5748.3	5975.7	6436.8	6408.3	6147.2	5033.9	3754.3	3649.1	3499.7
67.5°	6530.4	6470.6	6384.9	6747.3	7321.5	7321.5	6639.5	5005.3	3451.6	2929.4	2288.9
70°	6834.4	6875.9	7012.3	7581.3	8190.6	8128.2	7125.3	4676.6	2569.5	1573.2	900.2
72°	6631.7	6588.8	6940.9	7854.1	8725.8	8623.2	7043.5	3717.9	1484.8	689.8	313.1
72.5°	6283.6	6323.8	6808.4	7816.4	8625.8	8710.2	6843.4	3429.5	1221.1	549.5	236.4
75°	3853.0	3921.9	5081.9	6636.9	7516.4	7421.5	5293.7	1634.2	469.0	233.8	84.4
77.5°	1406.9	1464.0	2465.6	4176.5	5345.6	5285.9	3063.2	580.7	254.6	174.1	42.9
80°	366.3	396.2	837.9	1926.5	3143.7	3147.6	1282.2	232.5	172.8	142.9	26.0
82.5°	72.7	80.5	257.2	749.6	1469.2	1449.8	405.3	124.7	129.9	116.9	18.2
85°	9.1	11.7	54.6	254.6	475.5	426.1	100.0	62.4	96.1	90.9	11.7
87.5°	1.3	1.3	13.0	58.5	100.0	97.4	20.8	19.5	42.9	55.9	6.5
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°	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6	1314.6
2.5°	1328.9	1334.1	1352.3	1367.9	1386.1	1391.3	1383.5	1396.5	1378.3	1388.7	1391.3
5°	1331.5	1361.4	1395.2	1417.3	1412.1	1399.1	1388.7	1353.6	1328.9	1319.8	1339.3
7.5°	1349.7	1383.5	1419.9	1419.9	1391.3	1323.7	1258.8	1196.4	1144.5	1118.5	1140.6
10°	1373.1	1408.2	1445.9	1396.5	1290.0	1166.6	1074.3	957.4	878.2	836.6	840.5
12.5°	1404.3	1453.6	1466.6	1352.3	1175.6	992.5	824.9	662.5	587.2	527.4	528.7
15°	1444.6	1492.6	1453.6	1256.2	1030.2	760.0	558.6	404.0	344.3	313.1	313.1
17.5°	1497.8	1534.2	1449.8	1167.9	834.0	519.6	343.0	272.8	259.8	254.6	254.6
20°	1560.2	1587.5	1412.1	1030.2	619.7	333.9	252.0	244.2	245.5	242.9	242.9
22.5°	1630.3	1639.4	1369.2	870.4	419.6	246.8	235.1	236.4	237.7	235.1	236.4
25°	1704.4	1679.7	1306.9	683.3	279.3	224.7	227.3	229.9	231.2	232.5	232.5
27.5°	1787.5	1738.1	1219.8	500.1	218.2	211.7	219.5	227.3	228.6	228.6	227.3
30°	1909.6	1827.8	1135.4	339.1	192.3	197.5	210.4	219.5	226.0	226.0	224.7
32.5°	2064.2	1921.3	1017.2	231.2	178.0	180.6	191.0	209.1	223.4	224.7	220.8
35°	2278.6	2034.3	893.8	184.5	167.6	168.9	175.4	189.7	214.3	222.1	220.8
37.5°	2504.6	2162.9	740.5	166.3	159.8	158.5	162.4	174.1	196.2	215.6	216.9
40°	2744.9	2298.0	579.4	157.2	153.3	150.7	152.0	157.2	174.1	198.8	204.0
42.5°	2970.9	2420.1	435.2	148.1	146.8	144.2	144.2	145.5	154.6	171.5	174.1
45°	3215.2	2520.2	331.3	141.6	137.7	139.0	133.8	131.2	137.7	139.0	137.7
47.5°	3443.8	2620.2	265.0	133.8	129.9	129.9	123.4	118.2	118.2	106.5	105.2
50°	3658.2	2674.8	211.7	123.4	122.1	120.8	111.7	102.6	94.8	80.5	77.9
52.5°	3836.1	2672.2	163.7	110.4	114.3	110.4	96.1	83.1	71.4	58.5	55.9
55°	3889.4	2547.5	123.4	90.9	97.4	92.2	76.6	65.0	52.0	41.6	40.3
57.5°	3843.9	2357.8	93.5	70.1	75.3	70.1	58.5	48.1	36.4	28.6	26.0
60°	3691.9	2135.7	72.7	54.6	57.2	53.3	44.2	36.4	26.0	18.2	15.6
62.5°	3403.5	1857.7	55.9	42.9	41.6	41.6	33.8	27.3	18.2	10.4	9.1
65°	2793.0	1448.5	42.9	29.9	29.9	29.9	26.0	19.5	11.7	5.2	2.6
67.5°	1753.7	843.1	35.1	23.4	22.1	22.1	18.2	13.0	6.5	1.3	0.0
70°	659.9	309.2	27.3	18.2	16.9	16.9	13.0	7.8	3.9	0.0	0.0
72°	227.3	118.2	22.1	13.0	13.0	11.7	9.1	6.5	2.6	0.0	0.0
72.5°	187.1	94.8	20.8	13.0	11.7	11.7	9.1	6.5	2.6	0.0	0.0
75°	67.6	39.0	14.3	9.1	7.8	7.8	6.5	3.9	1.3	0.0	0.0
77.5°	33.8	24.7	11.7	7.8	6.5	3.9	3.9	2.6	1.3	0.0	0.0
80°	20.8	15.6	6.5	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	14.3	9.1	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	9.1	3.9	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.6	1.3	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)