

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: P482992

Luminaire Tested: **IFLD-S-SA3A-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482992
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

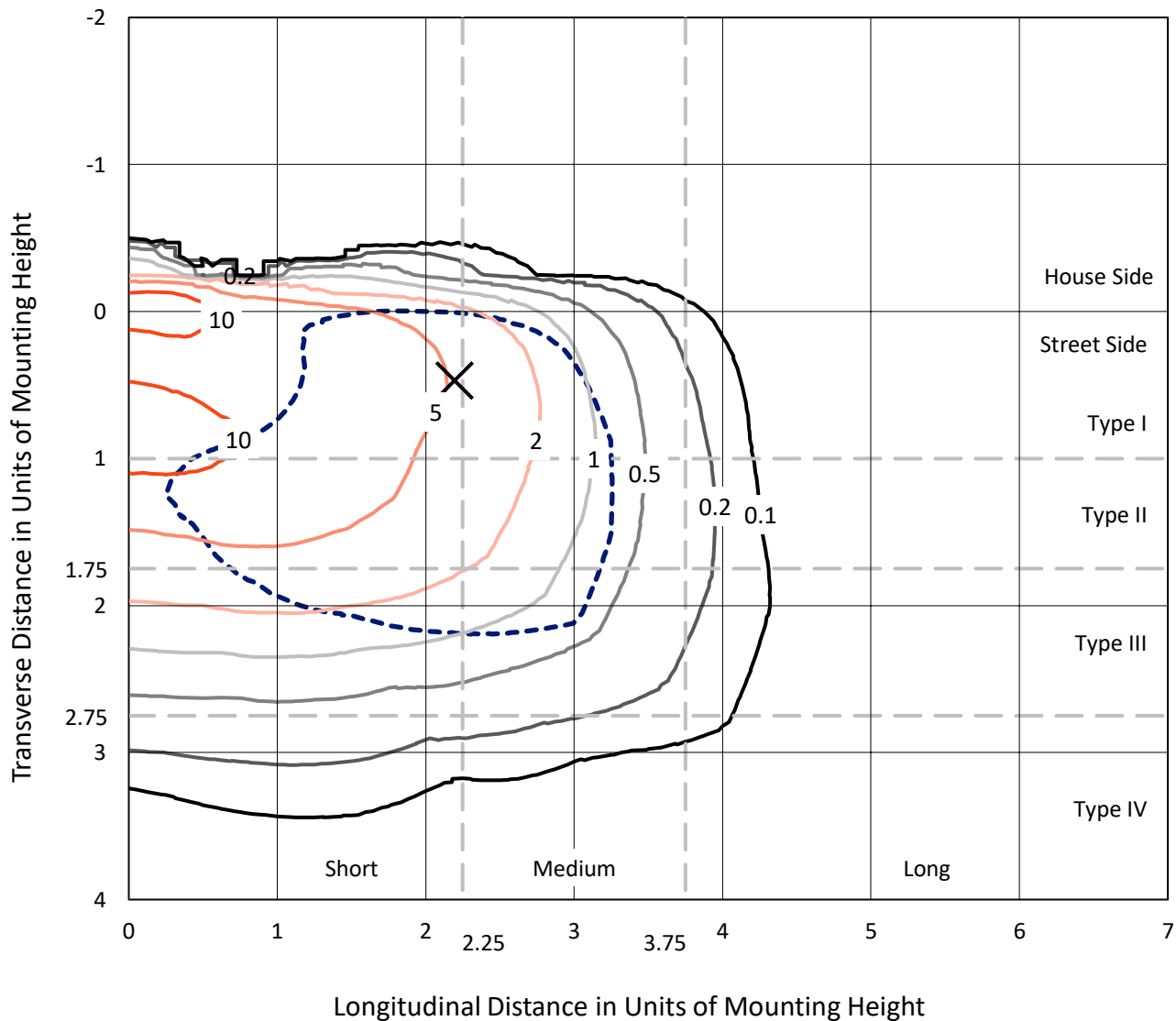
Lumens per Lamp: N/A
Luminaire Lumens: 7836.7 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

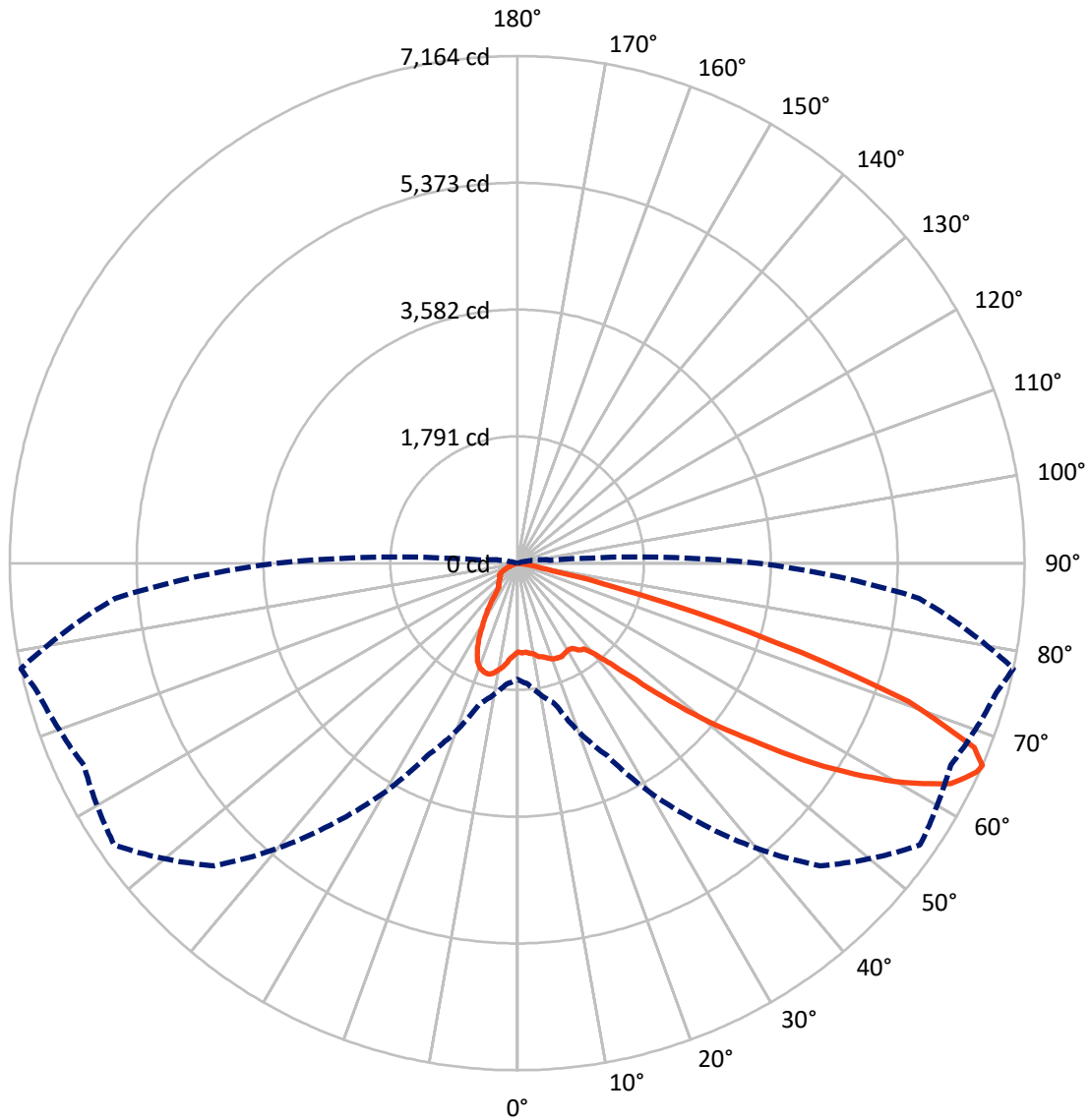
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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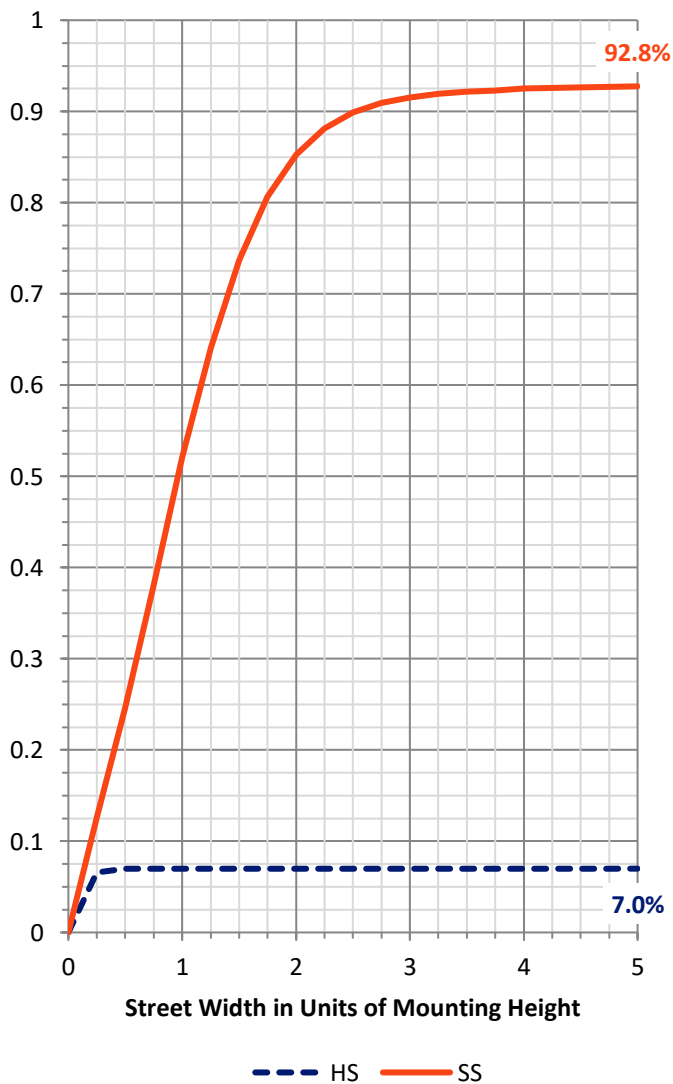
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.0	0.0	551.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	7285.7	0.0	7285.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	7836.7	0.0	7836.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.5
10°-20°	259.2	3.3
20°-30°	370.5	4.7
30°-40°	634.2	8.1
40°-50°	1144.6	14.6
50°-60°	1957.5	25.0
60°-70°	2409.3	30.7
70°-80°	910.9	11.6
80°-90°	35.6	0.5
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°	7836.7	100.0
0°-180°	7836.7	100.0

Coefficient of Utilization



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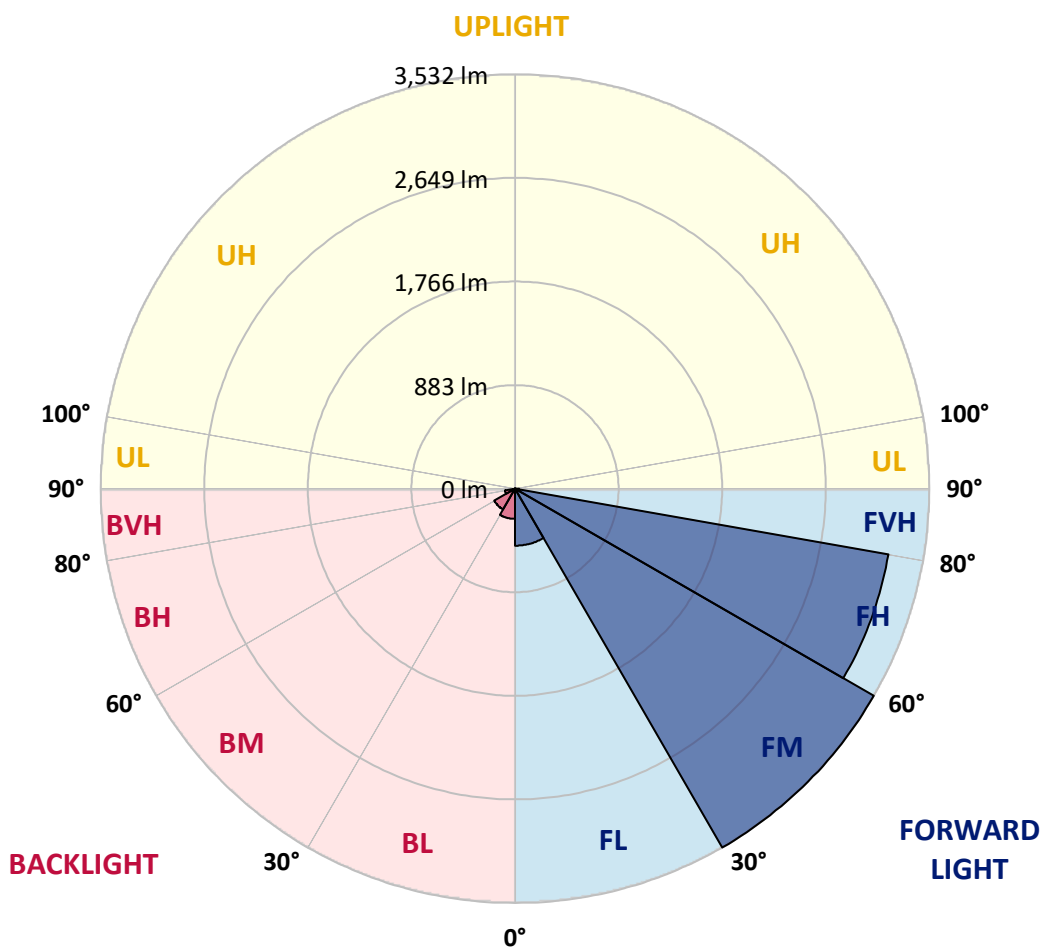
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.5	6.2			
FM (30°-60°)	3532.1	45.1			
FH (60°-80°)	3232.9	41.3			G2/5000
FVH (80°-90°)	34.2	0.4			G1/100
BL (0°-30°)	258.0	3.3	B1/500		
BM (30°-60°)	204.2	2.6	B0/220		
BH (60°-80°)	87.3	1.1	B0/110		G0/110
BVH (80°-90°)	1.4	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°	65°	75°	78°	85°
0°	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2
2.5°	1154.5	1143.9	1154.5	1169.9	1178.2	1185.3	1210.2	1231.5	1254.0	1269.4	1264.6
5°	1070.5	1090.6	1093.0	1097.7	1110.7	1153.3	1167.6	1204.3	1259.9	1264.6	1286.0
7.5°	1004.1	998.2	1013.6	1044.4	1077.6	1102.4	1143.9	1207.8	1265.8	1286.0	1327.4
10°	908.2	920.1	936.6	967.4	1007.7	1069.3	1142.7	1213.7	1296.6	1303.7	1380.7
12.5°	856.1	844.3	870.3	902.3	971.0	1027.8	1117.8	1203.1	1315.6	1354.6	1443.5
15°	813.5	819.4	844.3	865.6	922.4	994.7	1100.1	1229.1	1347.5	1374.8	1509.8
17.5°	795.7	792.2	811.1	832.4	902.3	984.0	1093.0	1230.3	1376.0	1411.5	1554.8
20°	804.0	811.1	805.2	825.3	869.2	952.0	1103.6	1252.8	1397.3	1445.8	1603.3
22.5°	934.3	924.8	877.4	839.5	841.9	939.0	1095.3	1267.0	1416.2	1455.3	1636.5
25°	1274.1	1223.2	1106.0	960.3	864.4	903.5	1085.8	1262.3	1412.7	1461.2	1656.6
27.5°	1616.3	1572.5	1457.7	1231.5	955.6	889.3	1052.7	1265.8	1394.9	1439.9	1623.4
30°	1977.5	2001.2	1830.7	1561.9	1194.8	967.4	1031.4	1246.9	1383.1	1421.0	1630.5
32.5°	2348.1	2338.7	2235.6	1944.3	1537.0	1140.3	1065.7	1265.8	1398.5	1435.2	1672.0
35°	2638.2	2605.1	2500.9	2238.0	1820.0	1400.8	1184.1	1355.8	1466.0	1509.8	1731.2
37.5°	2781.5	2795.7	2735.3	2506.8	2130.2	1642.4	1332.1	1355.8	1487.3	1538.2	1827.1
40°	2892.8	2935.5	2913.0	2839.5	2438.1	1914.7	1495.6	1439.9	1595.0	1690.9	2007.1
42.5°	3026.6	3006.5	3139.1	3071.6	2840.7	2258.1	1782.1	1640.0	1849.6	1942.0	2277.1
45°	3097.7	3174.6	3275.3	3361.7	3213.7	2686.8	2156.3	1994.1	2239.2	2356.4	2678.5
47.5°	3280.0	3310.8	3474.2	3583.2	3516.9	3177.0	2724.7	2511.5	2729.4	2914.1	3137.9
50°	3386.6	3345.2	3573.7	3739.5	3777.4	3583.2	3233.9	3068.1	3312.0	3547.6	3567.8
52.5°	3293.1	3411.5	3640.0	3937.2	4042.6	3945.5	3831.8	3759.6	3931.3	4149.2	4052.1
55°	2965.1	3045.6	3602.1	4153.9	4493.8	4448.8	4554.2	4506.8	4679.7	4910.6	4618.1
57.5°	2701.0	2801.6	3290.7	4266.4	4914.1	5046.8	5179.4	5149.8	5358.2	5624.6	5097.7
60°	2536.4	2594.4	3065.7	4238.0	5162.8	5664.9	5964.5	5756.0	6095.9	6299.6	5473.0
62.5°	2251.0	2287.7	2737.7	3861.4	5237.4	6101.8	6609.8	6326.8	6621.6	6870.3	5743.0
65°	1804.6	1904.1	2275.9	3297.8	4744.8	6182.3	7012.4	6679.7	6965.0	7128.5	5824.7
66°	1642.4	1714.6	2055.6	2999.4	4464.2	6048.5	6944.9	6753.1	7014.8	7164.0	5699.2
67.5°	1362.9	1425.7	1696.9	2574.3	3889.9	5753.7	6992.3	6703.4	7052.7	6961.5	5531.1
70°	902.3	942.6	1160.4	1740.7	2709.3	4706.9	6485.5	6315.0	6200.1	5857.9	4324.4
72.5°	421.5	479.6	724.7	1055.1	1589.1	3293.1	5288.3	5059.8	4348.1	3801.1	2728.2
75°	190.6	216.7	397.9	605.1	712.8	1706.3	3411.5	3081.1	2164.6	1797.5	1194.8
77.5°	103.0	117.2	194.2	287.7	259.3	598.0	1688.6	1404.4	682.1	499.7	346.9
80°	79.3	93.5	162.2	164.6	95.9	155.1	627.6	434.6	170.5	129.1	82.9
82.5°	41.4	59.2	127.9	106.6	48.5	62.8	194.2	120.8	53.3	42.6	35.5
85°	16.6	26.1	72.2	71.0	28.4	21.3	54.5	36.7	21.3	17.8	16.6
87.5°	1.2	1.2	39.1	27.2	17.8	5.9	8.3	8.3	10.7	9.5	11.8
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°	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2	1255.2
2.5°	1286.0	1300.2	1302.5	1341.6	1349.9	1341.6	1362.9	1359.4	1368.9	1361.7	1348.7
5°	1315.6	1335.7	1374.8	1404.4	1404.4	1380.7	1361.7	1336.9	1300.2	1290.7	1283.6
7.5°	1366.5	1430.4	1466.0	1447.0	1409.1	1320.3	1197.2	1107.2	1031.4	1003.0	989.9
10°	1456.5	1492.0	1533.4	1456.5	1299.0	1110.7	903.5	767.3	660.7	637.1	619.3
12.5°	1514.5	1571.3	1595.0	1404.4	1095.3	814.7	589.7	435.8	361.2	304.3	294.8
15°	1590.3	1655.4	1606.9	1263.5	863.2	534.0	305.5	190.6	155.1	145.6	145.6
17.5°	1642.4	1713.4	1558.3	1088.2	612.2	284.2	151.6	131.4	129.1	130.3	127.9
20°	1733.6	1776.2	1484.9	884.5	365.9	145.6	122.0	117.2	114.9	118.4	116.0
22.5°	1767.9	1807.0	1365.3	640.6	164.6	97.1	91.2	87.6	90.0	88.8	87.6
25°	1765.5	1785.7	1168.7	367.1	48.5	37.9	34.3	34.3	32.0	33.2	32.0
27.5°	1783.3	1733.6	948.5	108.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1792.8	1649.5	675.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1797.5	1605.7	434.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1834.2	1518.1	185.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1859.1	1405.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1962.1	1370.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2095.9	1303.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2281.8	1205.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2528.1	1147.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2711.7	1056.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2944.9	1001.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3222.0	1004.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3474.2	987.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3603.3	844.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3576.1	683.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3481.3	536.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3416.2	474.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3218.5	380.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2561.3	260.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1629.4	159.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	750.7	73.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	235.6	45.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.6	28.4	9.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	20.1	8.3	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	8.3	3.6	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	4.7	2.4	2.4	1.2	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)