

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: P483304

Luminaire Tested: **IFLD-S-SA3A-760-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483304
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-760-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

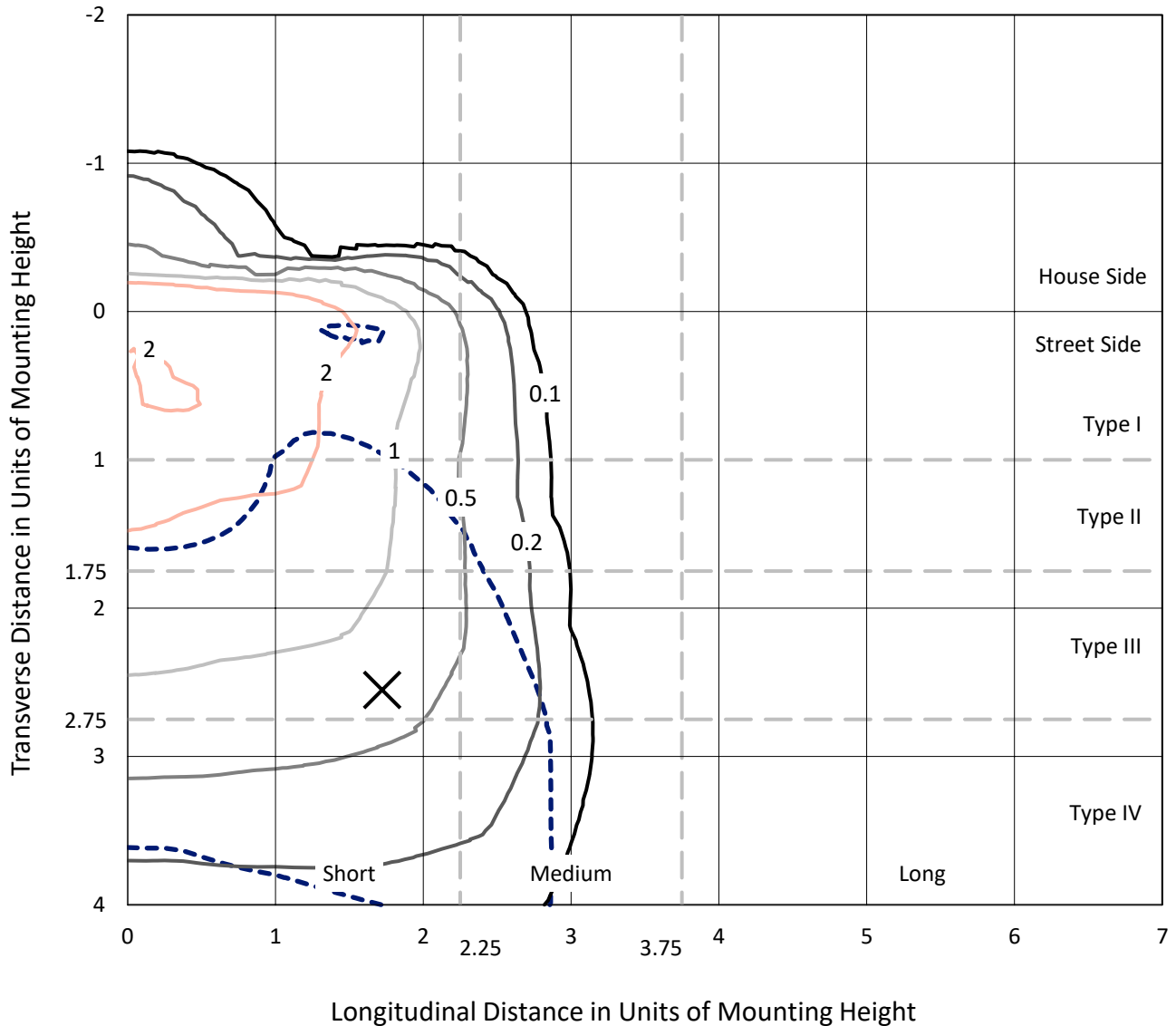
Lumens per Lamp: N/A
Luminaire Lumens: 10176.4 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

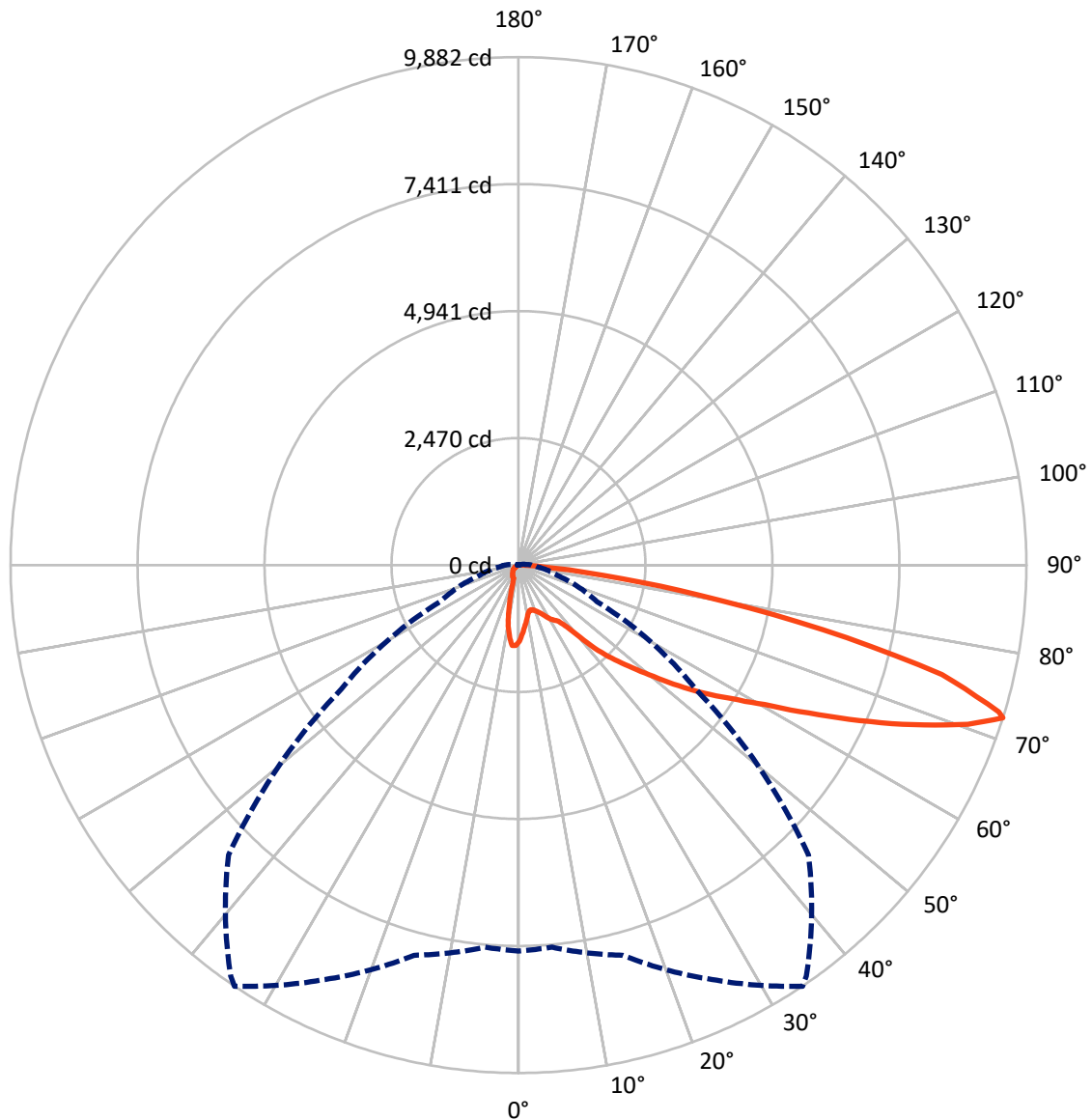
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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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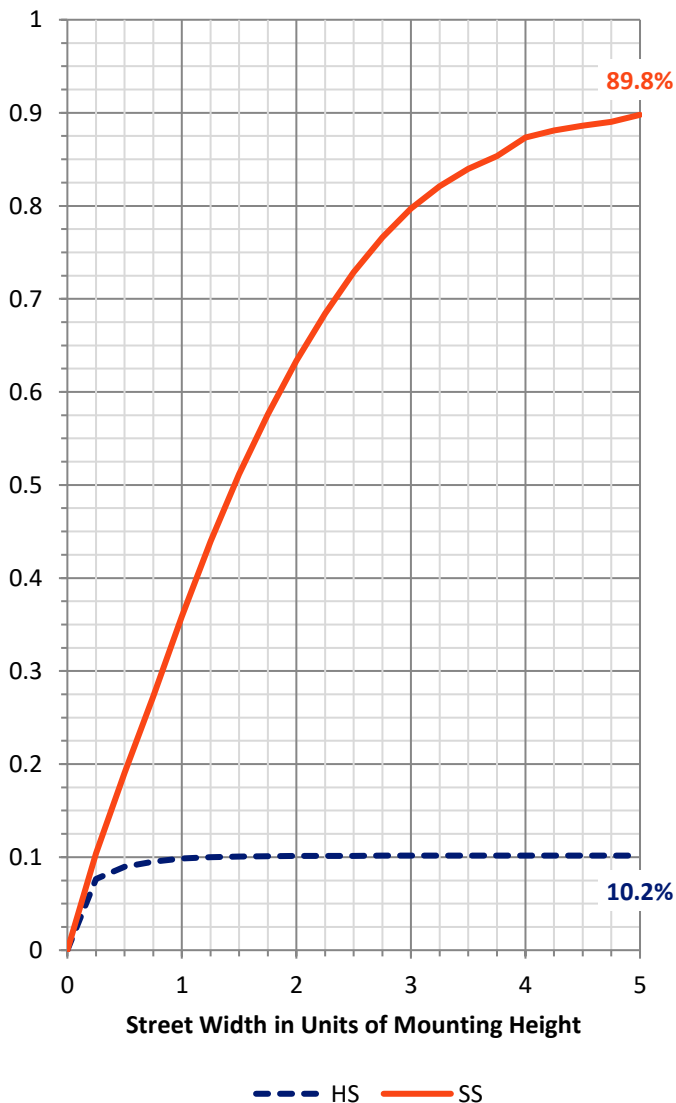
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1041.8	0.0	1041.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	9134.6	0.0	9134.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	10176.4	0.0	10176.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.3
10°-20°	292.6	2.9
20°-30°	441.7	4.3
30°-40°	716.7	7.0
40°-50°	1347.7	13.2
50°-60°	2203.6	21.7
60°-70°	2929.4	28.8
70°-80°	1961.8	19.3
80°-90°	153.7	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°	10176.4	100.0
0°-180°	10176.4	100.0

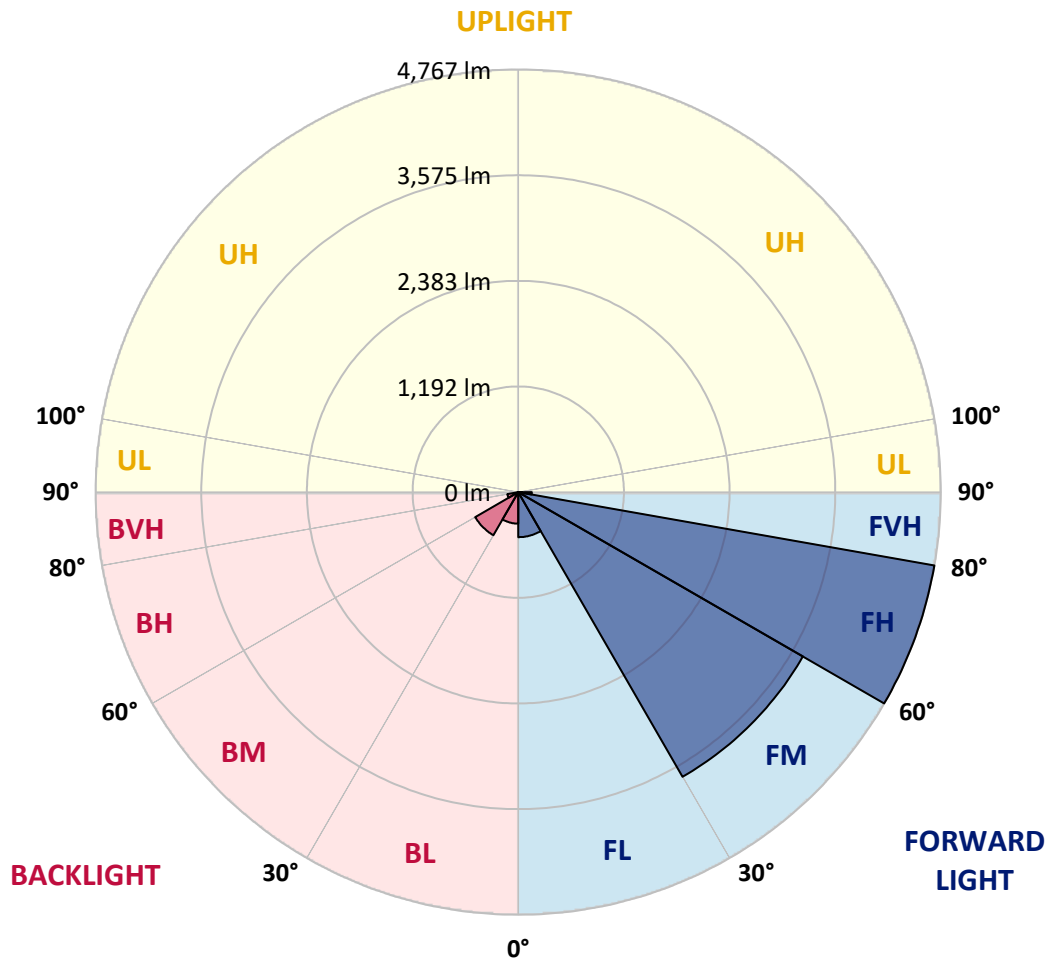


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.0	5.0			
FM (30°-60°)	3707.3	36.4			
FH (60°-80°)	4766.6	46.8			G2/5000
FVH (80°-90°)	152.8	1.5			G2/225
BL (0°-30°)	355.5	3.5	B1/500		
BM (30°-60°)	560.8	5.5	B1/1000		
BH (60°-80°)	124.6	1.2	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°	34°	35°	45°	55°	65°	75°	85°
0°	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1316.7	1313.8	1322.6	1337.3	1352.0	1346.1	1374.1	1403.5	1424.1	1452.0	1485.9
5°	1150.5	1157.8	1166.6	1196.1	1215.2	1219.6	1271.1	1309.3	1372.6	1437.3	1497.6
7.5°	998.9	1007.7	1025.4	1057.8	1097.5	1107.8	1159.3	1235.8	1318.2	1403.5	1502.1
10°	888.6	897.4	916.5	937.1	990.1	990.1	1060.7	1166.6	1274.0	1374.1	1503.5
12.5°	865.0	869.5	868.0	884.2	918.0	925.4	994.5	1110.7	1235.8	1363.8	1527.1
15°	893.0	895.9	881.2	872.4	901.8	909.2	973.9	1076.9	1210.8	1369.7	1565.3
17.5°	948.9	938.6	909.2	895.9	921.0	925.4	985.7	1075.4	1207.8	1385.8	1609.5
20°	981.3	993.0	941.5	916.5	951.8	957.7	1022.5	1099.0	1222.5	1413.8	1671.2
22.5°	1038.6	1044.5	975.4	959.2	993.0	993.0	1066.6	1146.0	1257.8	1459.4	1744.8
25°	1119.6	1112.2	1031.3	1015.1	1047.5	1060.7	1134.3	1221.1	1312.3	1502.1	1812.5
27.5°	1182.8	1187.2	1121.0	1078.4	1132.8	1141.6	1221.1	1302.0	1353.5	1537.4	1894.9
30°	1277.0	1268.1	1197.5	1149.0	1216.7	1218.1	1294.6	1378.5	1432.9	1600.6	2018.4
32.5°	1388.8	1371.1	1290.2	1221.1	1275.5	1288.7	1366.7	1488.8	1556.5	1719.8	2209.7
35°	1625.6	1583.0	1450.6	1343.2	1347.6	1353.5	1474.1	1649.2	1727.2	1871.3	2465.7
37.5°	1971.4	1953.7	1803.7	1599.2	1521.2	1503.5	1638.9	1861.0	1958.1	2071.4	2798.2
40°	2314.1	2289.1	2149.4	1994.9	1853.7	1818.4	1886.0	2142.0	2230.3	2349.5	3139.5
42.5°	2695.2	2651.0	2486.3	2361.2	2273.0	2234.7	2208.2	2495.1	2595.1	2676.1	3473.4
45°	3080.6	3008.5	2770.2	2674.6	2627.5	2606.9	2604.0	2939.4	2999.7	3015.9	3844.2
47.5°	3419.0	3341.0	3124.8	3017.4	2982.1	2976.2	3140.9	3451.4	3404.3	3361.6	4257.6
50°	3679.4	3629.4	3473.4	3435.2	3408.7	3398.4	3783.8	3978.0	3760.3	3685.3	4620.9
52.5°	4082.5	3970.7	3794.1	3807.4	3900.1	3901.5	4435.6	4478.2	4056.0	3907.4	4963.7
55°	4404.7	4331.1	4186.9	4167.8	4412.0	4438.5	5019.6	4857.8	4220.8	4119.3	5090.2
57.5°	4784.2	4750.4	4645.9	4648.9	4904.9	4960.8	5538.9	5178.5	4357.6	4256.1	5109.4
60°	5333.0	5235.9	5181.5	5206.5	5508.1	5562.5	6042.1	5409.5	4423.8	4345.8	5062.3
62.5°	5939.1	5825.8	5767.0	5895.0	6334.8	6343.7	6424.6	5614.0	4382.6	4369.4	4759.2
65°	6668.8	6557.0	6509.9	6767.4	7289.6	7257.3	6961.6	5700.8	4251.7	4132.5	3963.3
67.5°	7395.6	7327.9	7230.8	7641.2	8291.5	8291.5	7519.1	5668.4	3908.9	3317.5	2592.2
70°	7739.8	7786.9	7941.4	8585.7	9275.7	9205.1	8069.4	5296.2	2910.0	1781.6	1019.5
72°	7510.3	7461.8	7860.4	8894.7	9881.8	9765.6	7976.7	4210.5	1681.5	781.2	354.6
72.5°	7116.0	7161.6	7710.4	8852.0	9768.6	9864.2	7750.1	3883.9	1382.9	622.3	267.8
75°	4363.5	4441.5	5755.2	7516.2	8512.2	8404.8	5995.0	1850.7	531.1	264.8	95.6
77.5°	1593.3	1658.0	2792.3	4729.8	6053.9	5986.2	3469.0	657.6	288.3	197.1	48.5
80°	414.9	448.7	948.9	2181.7	3560.2	3564.6	1452.0	263.3	195.7	161.8	29.4
82.5°	82.4	91.2	291.3	848.9	1663.9	1641.8	459.0	141.2	147.1	132.4	20.6
85°	10.3	13.2	61.8	288.3	538.4	482.5	113.3	70.6	108.9	103.0	13.2
87.5°	1.5	1.5	14.7	66.2	113.3	110.3	23.5	22.1	48.5	63.3	7.4
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°	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8	1488.8
2.5°	1505.0	1510.9	1531.5	1549.1	1569.7	1575.6	1566.8	1581.5	1560.9	1572.7	1575.6
5°	1507.9	1541.8	1580.0	1605.0	1599.2	1584.4	1572.7	1533.0	1505.0	1494.7	1516.8
7.5°	1528.5	1566.8	1608.0	1608.0	1575.6	1499.1	1425.6	1354.9	1296.1	1266.7	1291.7
10°	1555.0	1594.7	1637.4	1581.5	1460.9	1321.1	1216.7	1084.3	994.5	947.4	951.8
12.5°	1590.3	1646.2	1660.9	1531.5	1331.4	1124.0	934.2	750.3	665.0	597.3	598.8
15°	1635.9	1690.4	1646.2	1422.6	1166.6	860.6	632.6	457.5	389.9	354.6	354.6
17.5°	1696.3	1737.4	1641.8	1322.6	944.5	588.5	388.4	308.9	294.2	288.3	288.3
20°	1766.9	1797.8	1599.2	1166.6	701.7	378.1	285.4	276.6	278.1	275.1	275.1
22.5°	1846.3	1856.6	1550.6	985.7	475.2	279.5	266.3	267.8	269.2	266.3	267.8
25°	1930.2	1902.2	1480.0	773.8	316.3	254.5	257.5	260.4	261.9	263.3	263.3
27.5°	2024.3	1968.4	1381.4	566.4	247.2	239.8	248.6	257.5	258.9	258.9	257.5
30°	2162.6	2069.9	1285.8	384.0	217.7	223.6	238.3	248.6	256.0	256.0	254.5
32.5°	2337.7	2175.9	1151.9	261.9	201.5	204.5	216.3	236.9	253.0	254.5	250.1
35°	2580.4	2303.8	1012.2	208.9	189.8	191.3	198.6	214.8	242.7	251.6	250.1
37.5°	2836.4	2449.5	838.6	188.3	181.0	179.5	183.9	197.1	222.1	244.2	245.7
40°	3108.6	2602.5	656.1	178.0	173.6	170.7	172.1	178.0	197.1	225.1	231.0
42.5°	3364.6	2740.8	492.8	167.7	166.2	163.3	163.3	164.8	175.1	194.2	197.1
45°	3641.1	2854.1	375.1	160.4	155.9	157.4	151.5	148.6	155.9	157.4	155.9
47.5°	3900.1	2967.3	300.1	151.5	147.1	147.1	139.8	133.9	133.9	120.6	119.2
50°	4142.8	3029.1	239.8	139.8	138.3	136.8	126.5	116.2	107.4	91.2	88.3
52.5°	4344.4	3026.2	185.4	125.0	129.5	125.0	108.9	94.2	80.9	66.2	63.3
55°	4404.7	2885.0	139.8	103.0	110.3	104.5	86.8	73.6	58.8	47.1	45.6
57.5°	4353.2	2670.2	105.9	79.4	85.3	79.4	66.2	54.4	41.2	32.4	29.4
60°	4181.1	2418.6	82.4	61.8	64.7	60.3	50.0	41.2	29.4	20.6	17.7
62.5°	3854.5	2103.8	63.3	48.5	47.1	47.1	38.3	30.9	20.6	11.8	10.3
65°	3163.0	1640.4	48.5	33.8	33.8	33.8	29.4	22.1	13.2	5.9	2.9
67.5°	1986.1	954.8	39.7	26.5	25.0	25.0	20.6	14.7	7.4	1.5	0.0
70°	747.4	350.1	30.9	20.6	19.1	19.1	14.7	8.8	4.4	0.0	0.0
72°	257.5	133.9	25.0	14.7	14.7	13.2	10.3	7.4	2.9	0.0	0.0
72.5°	211.8	107.4	23.5	14.7	13.2	13.2	10.3	7.4	2.9	0.0	0.0
75°	76.5	44.1	16.2	10.3	8.8	8.8	7.4	4.4	1.5	0.0	0.0
77.5°	38.3	28.0	13.2	8.8	7.4	4.4	4.4	2.9	1.5	0.0	0.0
80°	23.5	17.7	7.4	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0
82.5°	16.2	10.3	4.4	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.3	4.4	2.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.9	1.5	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)