

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: P483226

Luminaire Tested: **IFLD-S-SA3A-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483226
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

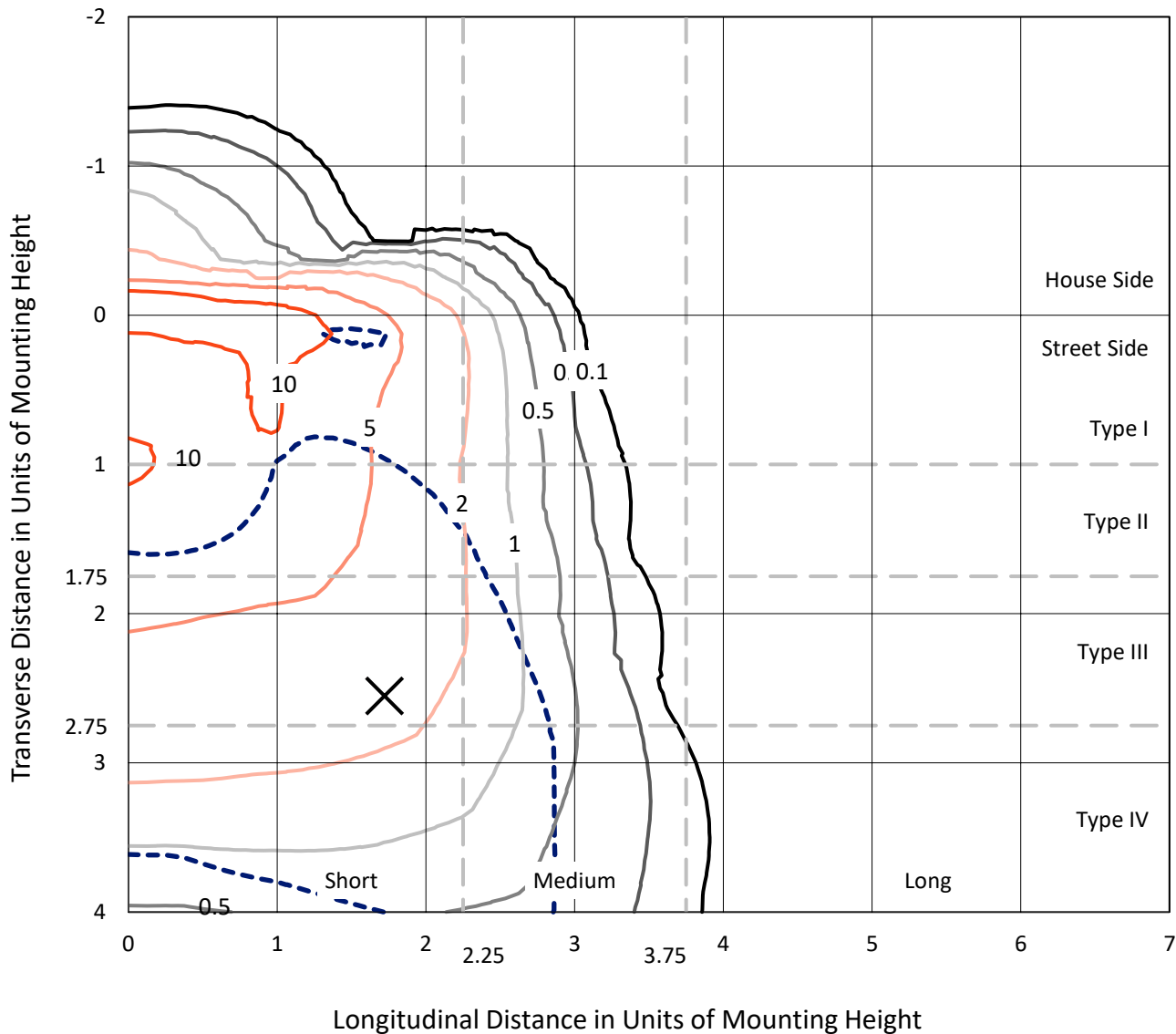
Lumens per Lamp: N/A
Luminaire Lumens: 9948.6 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

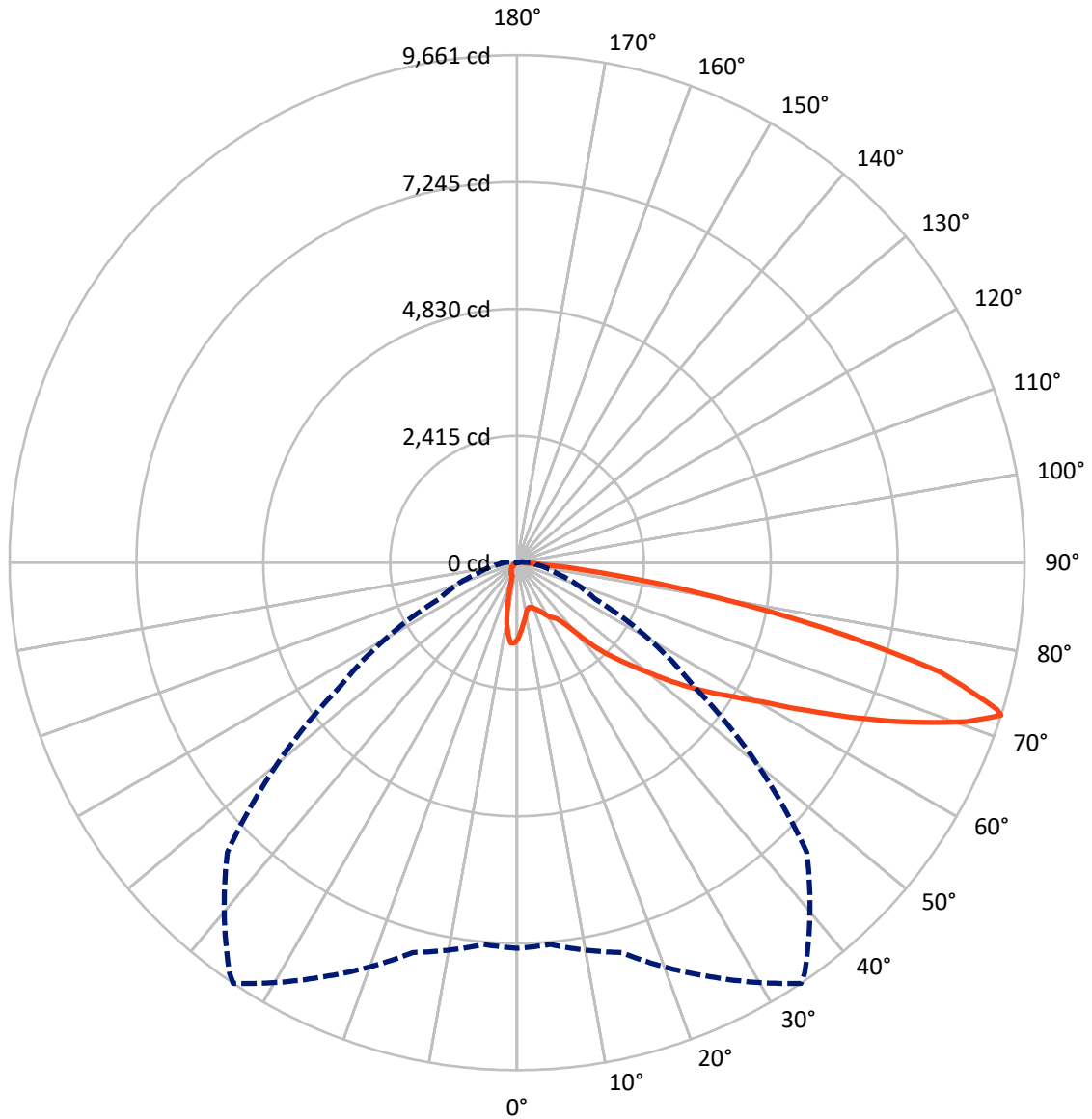
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 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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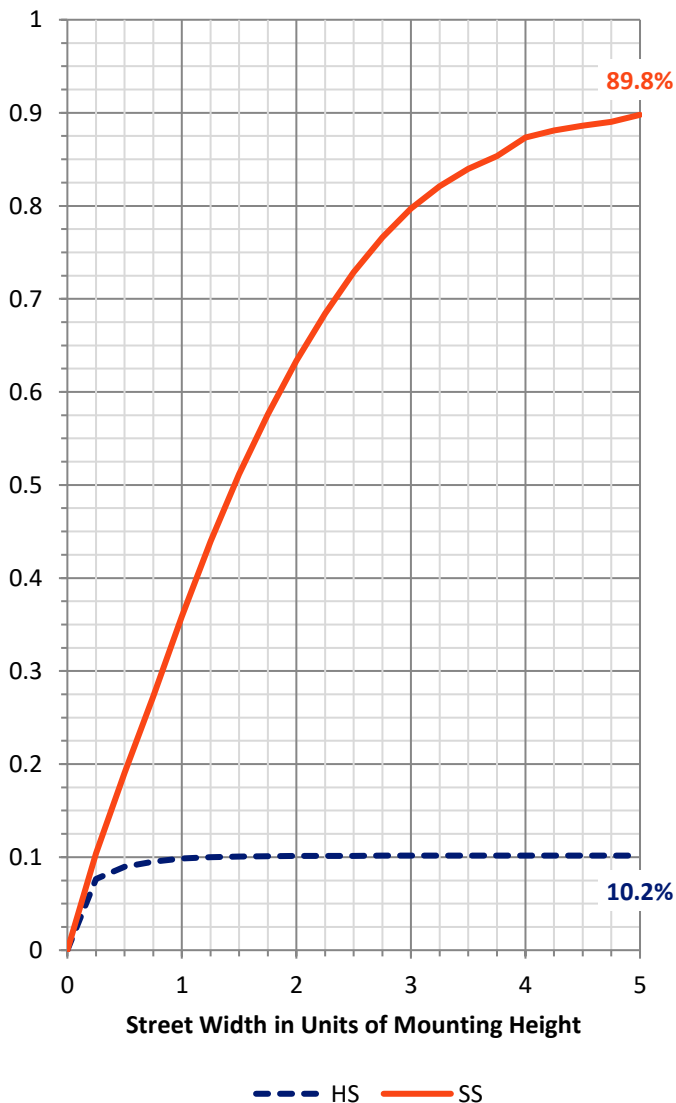
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.5	0.0	1018.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8930.1	0.0	8930.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	9948.6	0.0	9948.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.3
10°-20°	286.1	2.9
20°-30°	431.8	4.3
30°-40°	700.7	7.0
40°-50°	1317.6	13.2
50°-60°	2154.3	21.7
60°-70°	2863.8	28.8
70°-80°	1917.9	19.3
80°-90°	150.3	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°	9948.6	100.0
0°-180°	9948.6	100.0

Coefficient of Utilization



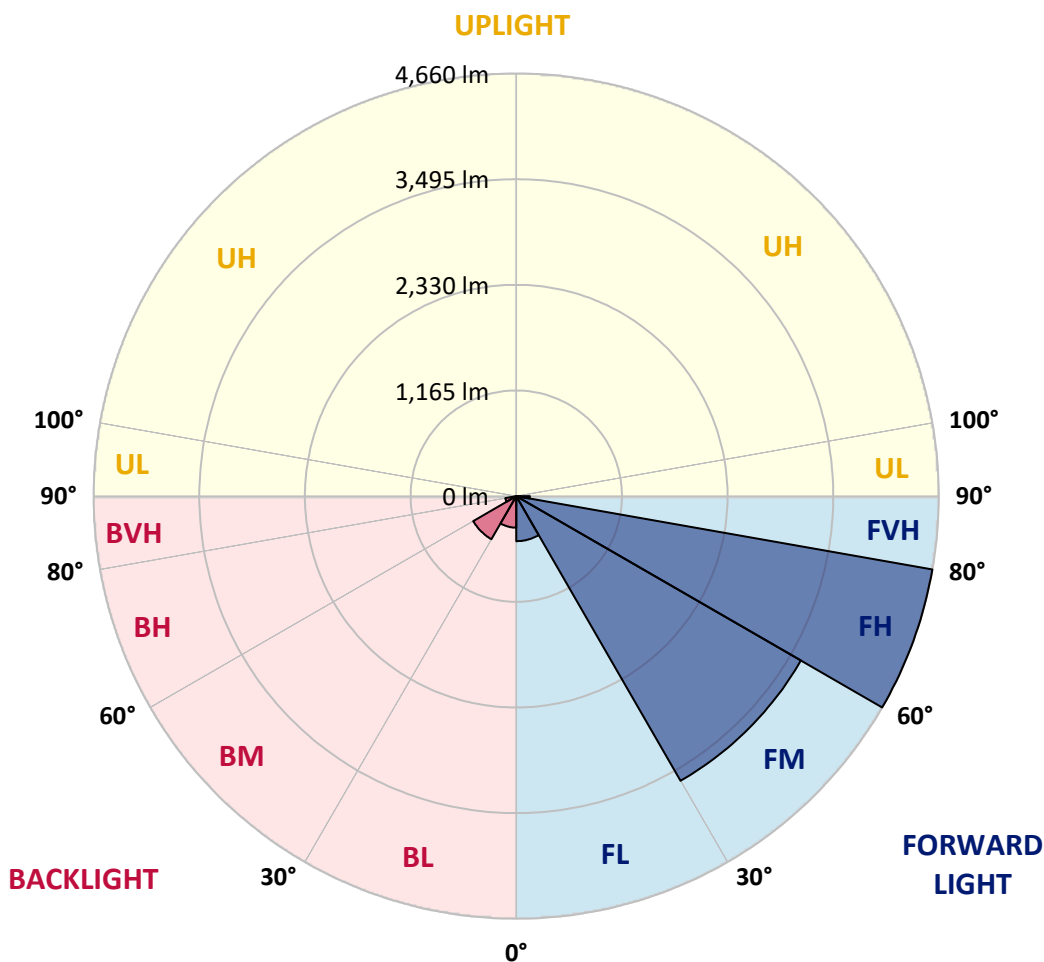
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.7	5.0			
FM (30°-60°)	3624.3	36.4			
FH (60°-80°)	4659.9	46.8			G2/5000
FVH (80°-90°)	149.3	1.5			G2/225
BL (0°-30°)	347.5	3.5	B1/500		
BM (30°-60°)	548.2	5.5	B1/1000		
BH (60°-80°)	121.8	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°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5
2.5°	1287.2	1284.3	1293.0	1307.4	1321.7	1316.0	1343.3	1372.1	1392.2	1419.5	1452.6
5°	1124.7	1131.9	1140.5	1169.3	1188.0	1192.3	1242.6	1280.0	1341.9	1405.2	1464.1
7.5°	976.6	985.2	1002.4	1034.1	1072.9	1083.0	1133.3	1208.1	1288.7	1372.1	1468.4
10°	868.7	877.3	896.0	916.2	967.9	967.9	1037.0	1140.5	1245.5	1343.3	1469.9
12.5°	845.7	850.0	848.6	864.4	897.5	904.6	972.2	1085.9	1208.1	1333.2	1492.9
15°	873.0	875.9	861.5	852.9	881.6	888.8	952.1	1052.8	1183.7	1339.0	1530.3
17.5°	927.7	917.6	888.8	875.9	900.3	904.6	963.6	1051.3	1180.8	1354.8	1573.4
20°	959.3	970.8	920.5	896.0	930.5	936.3	999.6	1074.4	1195.2	1382.1	1633.8
22.5°	1015.4	1021.1	953.5	937.7	970.8	970.8	1042.7	1120.4	1229.7	1426.7	1705.7
25°	1094.5	1087.3	1008.2	992.4	1024.0	1037.0	1108.9	1193.7	1282.9	1468.4	1771.9
27.5°	1156.3	1160.7	1095.9	1054.2	1107.4	1116.1	1193.7	1272.8	1323.2	1503.0	1852.4
30°	1248.4	1239.8	1170.7	1123.3	1189.4	1190.9	1265.6	1347.6	1400.8	1564.8	1973.3
32.5°	1357.7	1340.4	1261.3	1193.7	1246.9	1259.9	1336.1	1455.5	1521.6	1681.3	2160.2
35°	1589.2	1547.5	1418.1	1313.1	1317.4	1323.2	1441.1	1612.3	1688.5	1829.4	2410.5
37.5°	1927.2	1910.0	1763.3	1563.4	1487.1	1469.9	1602.2	1819.4	1914.3	2025.0	2735.5
40°	2262.3	2237.9	2101.3	1950.2	1812.2	1777.7	1843.8	2094.1	2180.4	2296.9	3069.2
42.5°	2634.8	2591.7	2430.6	2308.4	2222.1	2184.7	2158.8	2439.2	2537.0	2616.1	3395.7
45°	3011.7	2941.2	2708.2	2614.7	2568.7	2548.5	2545.7	2873.6	2932.6	2948.4	3758.1
47.5°	3342.5	3266.2	3054.8	2949.8	2915.3	2909.5	3070.6	3374.1	3328.1	3286.4	4162.2
50°	3597.0	3548.1	3395.7	3358.3	3332.4	3322.3	3699.1	3889.0	3676.1	3602.8	4517.5
52.5°	3991.1	3881.8	3709.2	3722.1	3812.8	3814.2	4336.3	4378.0	3965.2	3819.9	4852.6
55°	4306.1	4234.2	4093.2	4074.5	4313.3	4339.1	4907.2	4749.0	4126.3	4027.0	4976.3
57.5°	4677.1	4644.1	4541.9	4544.8	4795.1	4849.7	5414.9	5062.6	4260.0	4160.8	4995.0
60°	5213.6	5118.7	5065.5	5089.9	5384.7	5438.0	5906.8	5288.4	4324.8	4248.5	4949.0
62.5°	5806.1	5695.4	5637.9	5763.0	6193.0	6201.7	6280.8	5488.3	4284.5	4271.5	4652.7
65°	6519.5	6410.2	6364.2	6615.9	7126.4	7094.8	6805.7	5573.1	4156.5	4040.0	3874.6
67.5°	7230.0	7163.8	7068.9	7470.2	8105.9	8105.9	7350.8	5541.5	3821.4	3243.2	2534.2
70°	7566.5	7612.6	7763.6	8393.5	9068.1	8999.0	7888.7	5177.6	2844.8	1741.7	996.7
72°	7342.2	7294.7	7684.5	8695.6	9660.6	9547.0	7798.1	4116.2	1643.9	763.7	346.6
72.5°	6956.7	7001.3	7537.8	8653.8	9549.9	9643.3	7576.6	3796.9	1351.9	608.4	261.8
75°	4265.8	4342.0	5626.4	7347.9	8321.6	8216.6	5860.8	1809.3	519.2	258.9	93.5
77.5°	1557.6	1620.9	2729.8	4623.9	5918.3	5852.2	3391.4	642.9	281.9	192.7	47.5
80°	405.6	438.7	927.7	2132.9	3480.5	3484.8	1419.5	257.4	191.3	158.2	28.8
82.5°	80.5	89.2	284.8	829.9	1626.6	1605.1	448.7	138.1	143.8	129.4	20.1
85°	10.1	12.9	60.4	281.9	526.4	471.7	110.7	69.0	106.4	100.7	12.9
87.5°	1.4	1.4	14.4	64.7	110.7	107.9	23.0	21.6	47.5	61.8	7.2
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°	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5	1455.5
2.5°	1471.3	1477.1	1497.2	1514.5	1534.6	1540.3	1531.7	1546.1	1526.0	1537.5	1540.3
5°	1474.2	1507.3	1544.7	1569.1	1563.4	1549.0	1537.5	1498.6	1471.3	1461.2	1482.8
7.5°	1494.3	1531.7	1572.0	1572.0	1540.3	1465.6	1393.6	1324.6	1267.1	1238.3	1262.8
10°	1520.2	1559.0	1600.8	1546.1	1428.2	1291.5	1189.4	1060.0	972.2	926.2	930.5
12.5°	1554.7	1609.4	1623.8	1497.2	1301.6	1098.8	913.3	733.5	650.1	583.9	585.4
15°	1599.3	1652.5	1609.4	1390.8	1140.5	841.4	618.4	447.3	381.1	346.6	346.6
17.5°	1658.3	1698.6	1605.1	1293.0	923.3	575.3	379.7	302.0	287.6	281.9	281.9
20°	1727.3	1757.5	1563.4	1140.5	686.0	369.6	279.0	270.4	271.8	268.9	268.9
22.5°	1805.0	1815.0	1515.9	963.6	464.5	273.3	260.3	261.8	263.2	260.3	261.8
25°	1887.0	1859.6	1446.9	756.5	309.2	248.8	251.7	254.6	256.0	257.4	257.4
27.5°	1979.0	1924.4	1350.5	553.7	241.6	234.4	243.1	251.7	253.1	253.1	251.7
30°	2114.2	2023.6	1257.0	375.4	212.9	218.6	233.0	243.1	250.3	250.3	248.8
32.5°	2285.4	2127.1	1126.1	256.0	197.0	199.9	211.4	231.6	247.4	248.8	244.5
35°	2522.7	2252.3	989.5	204.2	185.5	187.0	194.2	210.0	237.3	245.9	244.5
37.5°	2772.9	2394.7	819.8	184.1	176.9	175.5	179.8	192.7	217.2	238.7	240.2
40°	3039.0	2544.2	641.5	174.0	169.7	166.8	168.3	174.0	192.7	220.0	225.8
42.5°	3289.2	2679.4	481.8	164.0	162.5	159.6	159.6	161.1	171.1	189.8	192.7
45°	3559.6	2790.2	366.7	156.8	152.5	153.9	148.1	145.3	152.5	153.9	152.5
47.5°	3812.8	2900.9	293.4	148.1	143.8	143.8	136.6	130.9	130.9	117.9	116.5
50°	4050.1	2961.3	234.4	136.6	135.2	133.8	123.7	113.6	105.0	89.2	86.3
52.5°	4247.1	2958.4	181.2	122.2	126.6	122.2	106.4	92.0	79.1	64.7	61.8
55°	4306.1	2820.4	136.6	100.7	107.9	102.1	84.9	71.9	57.5	46.0	44.6
57.5°	4255.7	2610.4	103.6	77.7	83.4	77.7	64.7	53.2	40.3	31.6	28.8
60°	4087.5	2364.5	80.5	60.4	63.3	59.0	48.9	40.3	28.8	20.1	17.3
62.5°	3768.2	2056.7	61.8	47.5	46.0	46.0	37.4	30.2	20.1	11.5	10.1
65°	3092.2	1603.6	47.5	33.1	33.1	33.1	28.8	21.6	12.9	5.8	2.9
67.5°	1941.6	933.4	38.8	25.9	24.4	24.4	20.1	14.4	7.2	1.4	0.0
70°	730.6	342.3	30.2	20.1	18.7	18.7	14.4	8.6	4.3	0.0	0.0
72°	251.7	130.9	24.4	14.4	14.4	12.9	10.1	7.2	2.9	0.0	0.0
72.5°	207.1	105.0	23.0	14.4	12.9	12.9	10.1	7.2	2.9	0.0	0.0
75°	74.8	43.1	15.8	10.1	8.6	8.6	7.2	4.3	1.4	0.0	0.0
77.5°	37.4	27.3	12.9	8.6	7.2	4.3	4.3	2.9	1.4	0.0	0.0
80°	23.0	17.3	7.2	5.8	4.3	2.9	1.4	1.4	0.0	0.0	0.0
82.5°	15.8	10.1	4.3	4.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0
85°	10.1	4.3	2.9	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.9	1.4	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)