

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: P484859

Luminaire Tested: **IFLD-S-SA2A-760-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484859
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-760-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

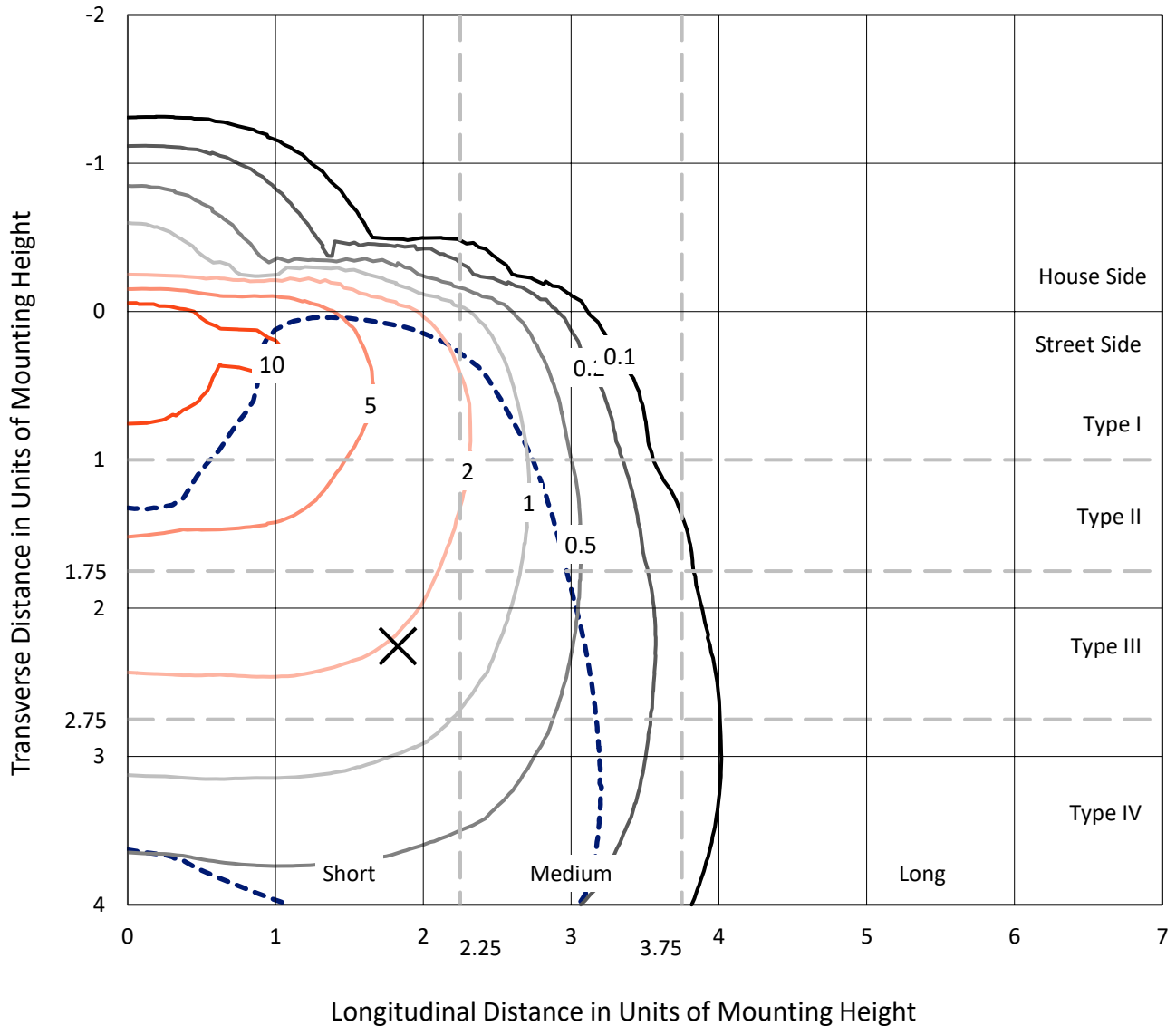
Lumens per Lamp: N/A
Luminaire Lumens: 7801.6 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

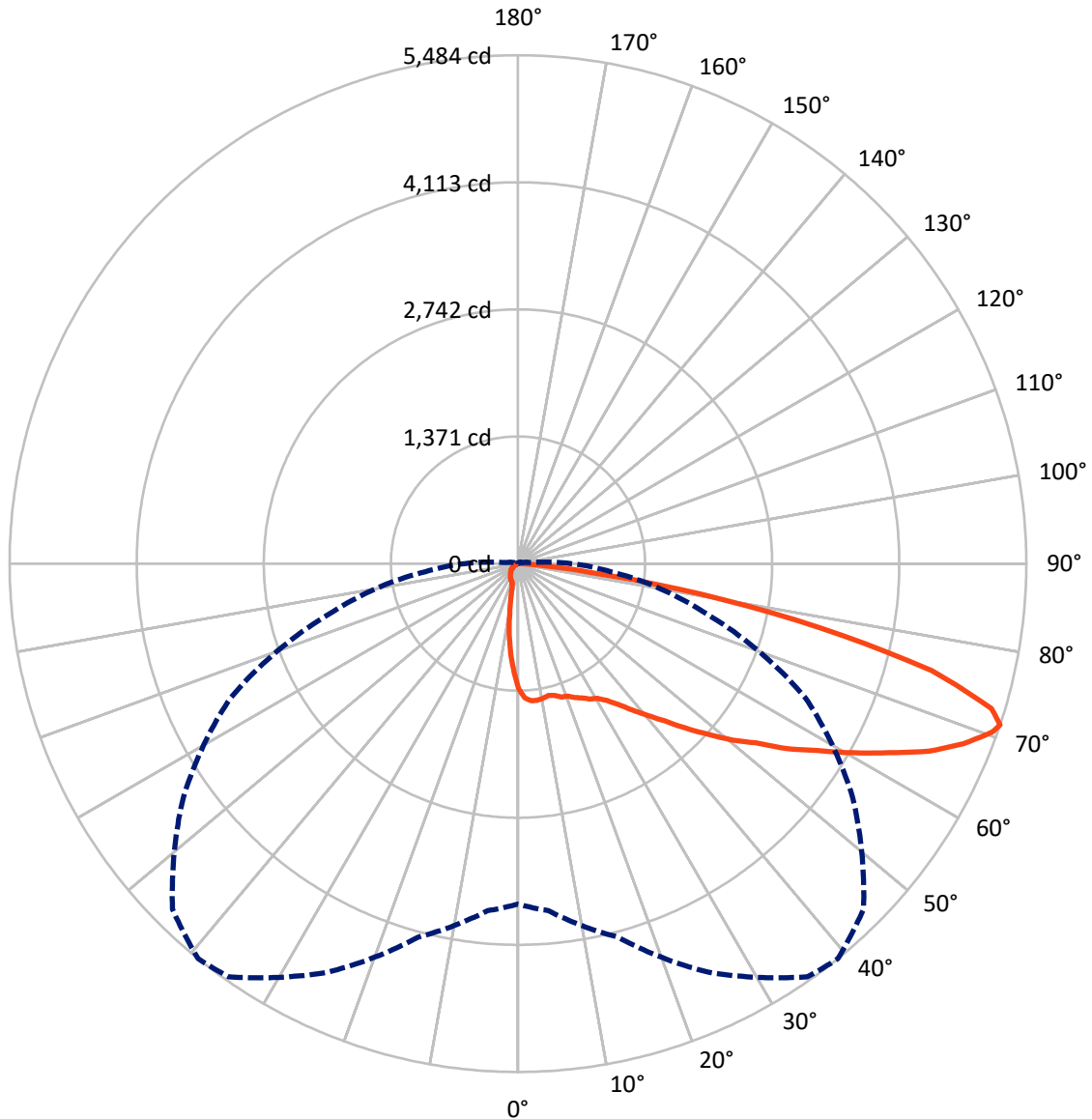
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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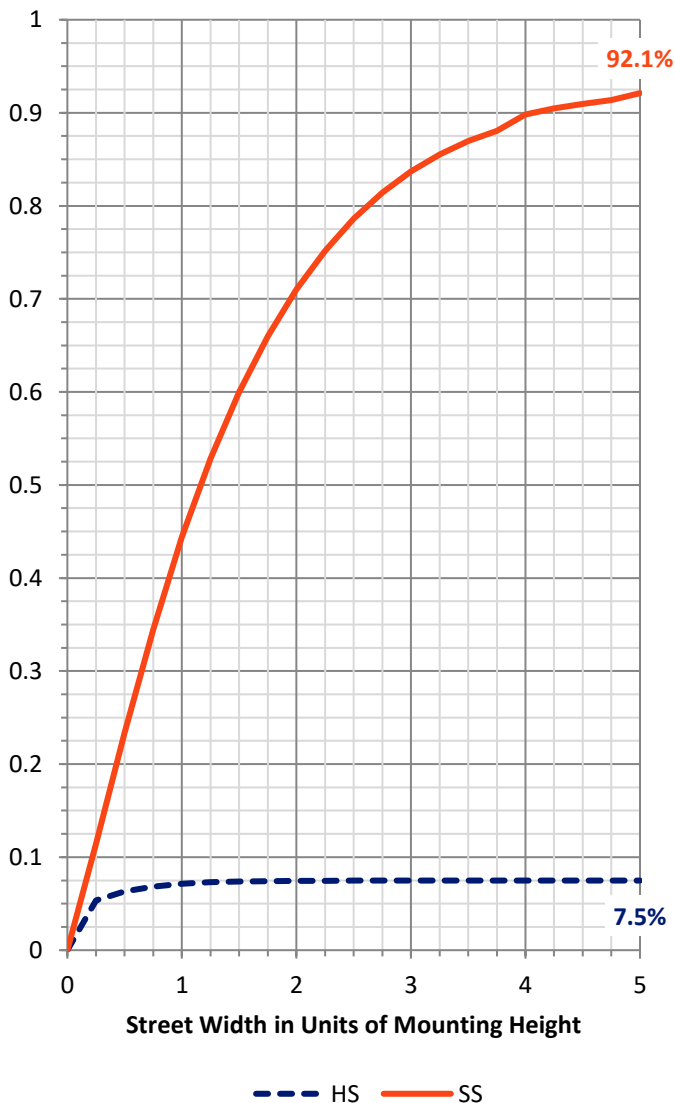
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.3	0.0	587.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7214.2	0.0	7214.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	7801.6	0.0	7801.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	1.5
10°-20°	279.4	3.6
20°-30°	448.6	5.7
30°-40°	686.7	8.8
40°-50°	1102.3	14.1
50°-60°	1619.0	20.8
60°-70°	2039.1	26.1
70°-80°	1360.8	17.4
80°-90°	152.1	1.9
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°	7801.6	100.0
0°-180°	7801.6	100.0



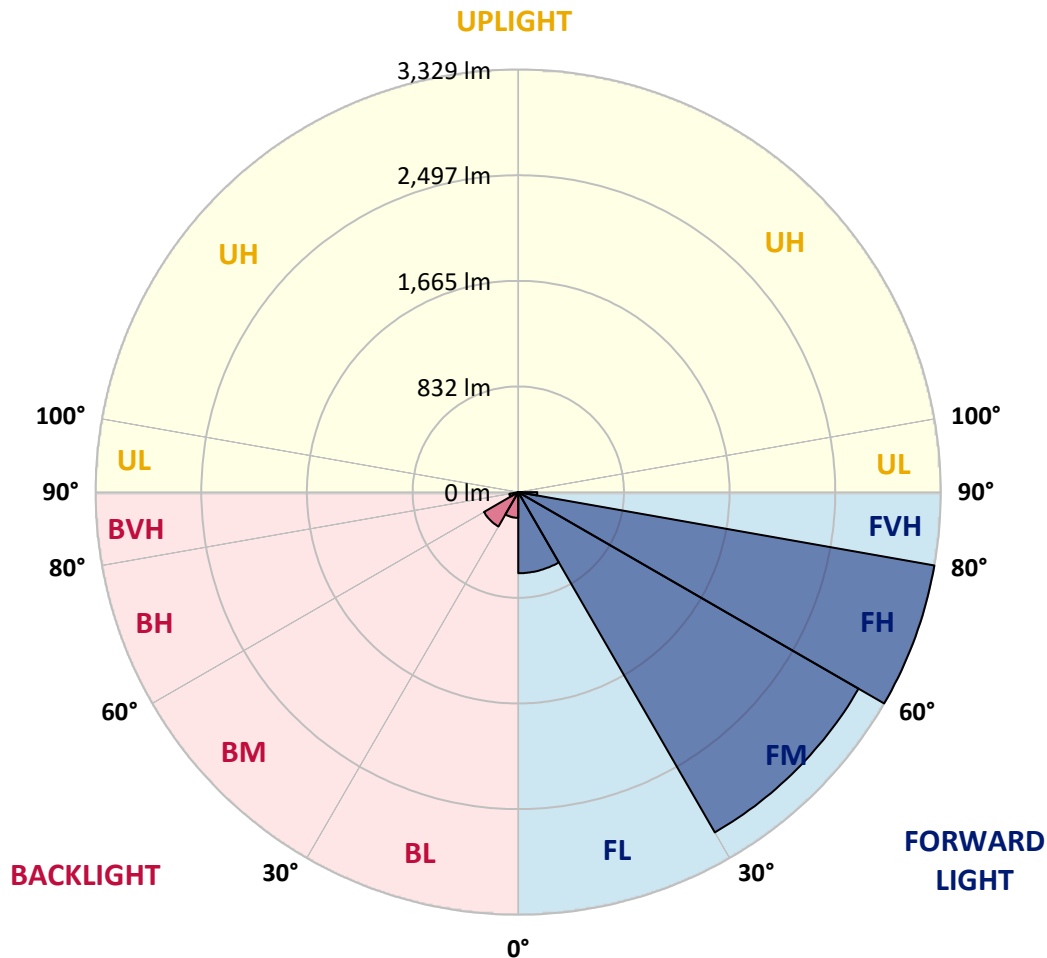
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.8	8.2			
FM (30°-60°)	3095.8	39.7			
FH (60°-80°)	3329.3	42.7			G2/5000
FVH (80°-90°)	150.4	1.9			G2/225
BL (0°-30°)	202.8	2.6	B1/500		
BM (30°-60°)	312.2	4.0	B1/1000		
BH (60°-80°)	70.7	0.9	B0/110		G0/110
BVH (80°-90°)	1.7	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°	39°	45°	55°	65°	75°	85°
0°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9
2.5°	1463.3	1477.6	1463.3	1457.2	1451.0	1452.1	1435.7	1438.8	1419.3	1393.7	1373.3
5°	1509.4	1528.8	1513.5	1506.3	1505.3	1485.8	1477.6	1458.2	1434.7	1394.7	1370.2
7.5°	1505.3	1501.2	1508.3	1502.2	1488.9	1488.9	1479.7	1452.1	1428.5	1383.5	1341.5
10°	1474.6	1486.8	1480.7	1473.5	1476.6	1477.6	1460.2	1440.8	1433.6	1388.6	1320.0
12.5°	1471.5	1451.0	1473.5	1474.6	1461.3	1460.2	1458.2	1453.1	1430.6	1389.6	1325.2
15°	1461.3	1453.1	1475.6	1476.6	1479.7	1476.6	1479.7	1475.6	1453.1	1429.5	1347.7
17.5°	1469.4	1460.2	1492.0	1507.3	1500.1	1514.5	1509.4	1490.9	1471.5	1443.9	1369.2
20°	1471.5	1484.8	1519.6	1525.7	1548.2	1524.7	1523.7	1504.2	1492.0	1462.3	1382.5
22.5°	1509.4	1515.5	1558.5	1571.8	1572.8	1569.7	1544.1	1521.6	1516.5	1479.7	1385.5
25°	1566.7	1588.2	1607.6	1615.8	1618.8	1604.5	1577.9	1549.3	1537.0	1513.5	1417.3
27.5°	1668.0	1654.7	1672.1	1684.3	1649.5	1654.7	1620.9	1596.3	1578.9	1558.5	1454.1
30°	1758.0	1745.7	1746.8	1744.7	1715.0	1687.4	1678.2	1635.2	1613.7	1621.9	1511.4
32.5°	1838.9	1812.3	1834.8	1824.5	1769.3	1761.1	1753.9	1699.7	1703.8	1741.6	1597.4
35°	1913.6	1904.3	1922.8	1904.3	1867.5	1865.5	1858.3	1811.2	1833.7	1888.0	1744.7
37.5°	1982.1	1985.2	2007.7	1998.5	2001.6	2003.6	1999.5	1949.4	2013.8	2135.6	1916.6
40°	2045.6	2041.5	2096.7	2125.4	2131.5	2154.0	2154.0	2141.8	2241.0	2378.1	2155.1
42.5°	2113.1	2123.3	2195.0	2243.1	2301.4	2320.8	2347.4	2353.6	2507.1	2663.6	2398.6
45°	2223.6	2206.2	2297.3	2410.9	2462.0	2530.6	2571.5	2606.3	2791.5	3006.4	2642.1
47.5°	2363.8	2329.0	2408.8	2573.6	2692.3	2748.6	2822.2	2868.3	3049.4	3271.5	2872.4
50°	2519.3	2483.5	2522.4	2749.6	2887.7	2990.1	3084.2	3142.5	3361.5	3568.2	3040.2
52.5°	2695.4	2662.6	2668.7	2932.8	3136.4	3211.1	3334.9	3421.9	3639.9	3747.3	3099.6
55°	2882.6	2874.4	2855.0	3111.8	3354.4	3522.2	3596.9	3701.3	3925.4	3844.5	3164.0
57.5°	3070.9	3045.3	3072.9	3349.2	3704.3	3804.6	3908.0	3970.4	4084.0	3929.4	3139.5
60°	3247.9	3250.0	3288.9	3607.1	4002.1	4144.3	4237.5	4199.6	4246.7	3966.3	3083.2
62.5°	3397.3	3393.2	3491.5	3896.7	4396.1	4492.3	4561.8	4393.0	4322.4	4002.1	2984.9
65°	3531.4	3577.4	3732.0	4241.6	4766.5	4877.0	4835.1	4576.2	4396.1	3896.7	2708.7
67.5°	3632.7	3701.3	3969.4	4565.9	5106.2	5184.0	5125.7	4715.3	4309.1	3483.3	2206.2
70°	3692.0	3761.6	4139.2	4836.1	5377.4	5433.7	5296.6	4607.9	3801.5	2522.4	1376.3
71°	3673.6	3758.6	4172.0	4864.7	5441.9	5483.8	5271.0	4409.4	3418.8	2112.1	1003.9
72.5°	3506.8	3586.6	4035.9	4844.3	5364.1	5338.5	5071.4	3932.5	2691.3	1346.7	518.8
75°	2576.7	2662.6	3463.8	4190.4	4788.0	4612.0	4104.4	2759.8	1404.0	412.4	151.4
77.5°	1283.2	1297.5	2149.9	3042.3	3511.9	3337.0	2750.6	1539.0	524.9	121.8	75.7
80°	591.5	595.6	806.4	1575.9	2123.3	1998.5	1541.1	759.3	237.4	64.5	59.4
82.5°	403.2	409.3	486.1	652.9	922.0	777.7	624.2	486.1	136.1	38.9	58.3
85°	73.7	67.5	272.2	345.9	356.1	241.5	215.9	420.6	51.2	22.5	51.2
87.5°	0.0	1.0	37.9	141.2	126.9	56.3	73.7	102.3	5.1	7.2	9.2
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°	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9
2.5°	1355.9	1344.6	1306.7	1264.8	1226.9	1197.3	1159.4	1142.0	1114.4	1099.0	1098.0
5°	1336.4	1305.7	1240.2	1169.6	1090.8	1025.3	952.7	911.8	864.7	850.4	847.3
7.5°	1303.7	1259.7	1163.5	1064.2	943.5	827.8	738.8	643.7	585.3	560.8	551.6
10°	1283.2	1230.0	1099.0	950.6	781.8	619.1	494.3	392.9	339.7	314.2	308.0
12.5°	1283.2	1225.9	1046.8	842.2	618.1	423.6	306.0	247.6	230.2	224.1	224.1
15°	1280.1	1217.7	996.7	730.6	457.4	284.5	228.2	215.9	213.9	212.8	211.8
17.5°	1295.5	1203.4	945.5	610.9	323.4	224.1	209.8	207.7	205.7	205.7	203.6
20°	1306.7	1195.2	884.1	484.0	241.5	207.7	201.6	198.5	197.5	196.5	198.5
22.5°	1297.5	1182.9	808.4	362.2	210.8	197.5	193.4	190.3	188.3	188.3	189.3
25°	1314.9	1171.7	732.7	273.2	197.5	188.3	184.2	182.1	181.1	180.1	178.1
27.5°	1338.5	1176.8	642.6	220.0	186.2	179.1	175.0	172.9	171.9	169.9	171.9
30°	1367.1	1175.8	543.4	192.4	176.0	168.8	164.8	163.7	161.7	160.7	161.7
32.5°	1416.2	1202.4	441.0	178.1	164.8	158.6	154.5	153.5	152.5	151.4	150.4
35°	1521.6	1235.1	344.8	166.8	154.5	147.4	144.3	142.2	141.2	140.2	139.2
37.5°	1651.6	1307.8	263.0	156.6	144.3	137.1	134.1	133.0	128.9	127.9	126.9
40°	1814.3	1385.5	202.6	145.3	135.1	127.9	124.8	121.8	116.7	114.6	112.6
42.5°	2016.9	1461.3	166.8	135.1	124.8	119.7	114.6	109.5	105.4	101.3	99.3
45°	2219.5	1549.3	146.3	125.9	116.7	110.5	106.4	99.3	92.1	86.0	84.9
47.5°	2388.4	1581.0	134.1	115.6	108.5	103.4	97.2	88.0	77.8	71.6	70.6
50°	2514.2	1562.6	121.8	105.4	99.3	94.1	86.0	74.7	64.5	58.3	56.3
52.5°	2538.8	1481.7	110.5	97.2	90.0	83.9	74.7	62.4	51.2	45.0	44.0
55°	2521.4	1347.7	101.3	90.0	81.9	72.7	62.4	50.1	39.9	33.8	32.7
57.5°	2485.6	1189.1	91.1	80.8	71.6	62.4	51.2	40.9	29.7	23.5	23.5
60°	2363.8	973.2	80.8	70.6	61.4	53.2	42.0	29.7	20.5	15.3	14.3
62.5°	2193.9	748.0	70.6	60.4	53.2	44.0	32.7	21.5	12.3	8.2	8.2
65°	1883.9	523.9	59.4	50.1	44.0	35.8	24.6	13.3	7.2	3.1	3.1
67.5°	1431.6	324.4	49.1	42.0	37.9	28.7	17.4	8.2	3.1	1.0	0.0
70°	821.7	168.8	38.9	33.8	29.7	21.5	12.3	4.1	2.0	0.0	0.0
71°	574.1	124.8	34.8	29.7	26.6	19.4	10.2	3.1	1.0	0.0	0.0
72.5°	287.5	82.9	29.7	24.6	21.5	15.3	8.2	3.1	1.0	0.0	0.0
75°	102.3	53.2	20.5	16.4	15.3	11.3	5.1	2.0	1.0	0.0	0.0
77.5°	70.6	43.0	14.3	10.2	10.2	7.2	3.1	1.0	1.0	0.0	0.0
80°	64.5	23.5	9.2	6.1	5.1	4.1	2.0	1.0	0.0	0.0	0.0
82.5°	64.5	17.4	5.1	4.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0
85°	45.0	9.2	3.1	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.1	2.0	1.0	1.0	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)