

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: P484118

Luminaire Tested: **IFLD-S-SA2A-827-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484118
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

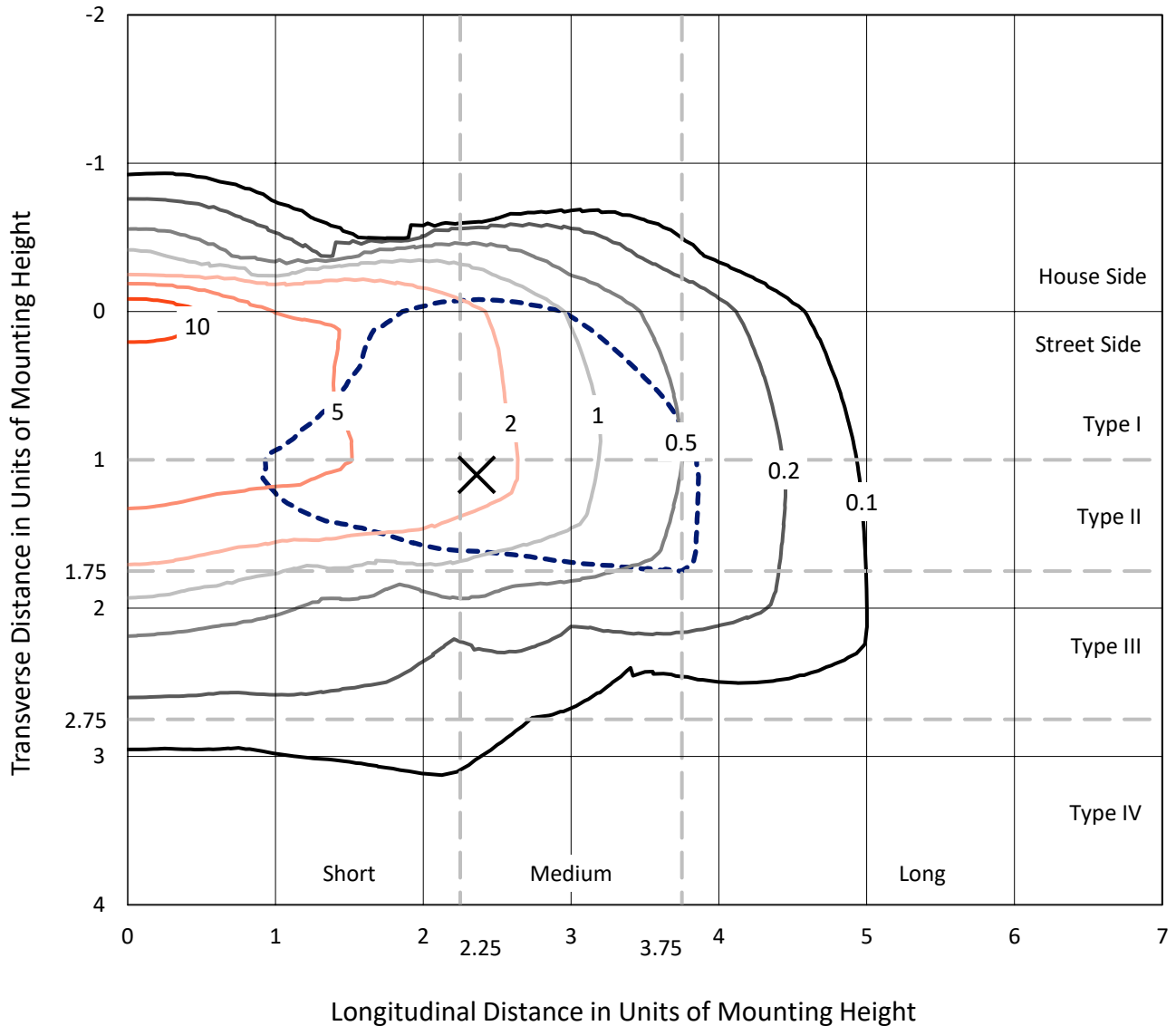
Lumens per Lamp: N/A
Luminaire Lumens: 5585.7 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

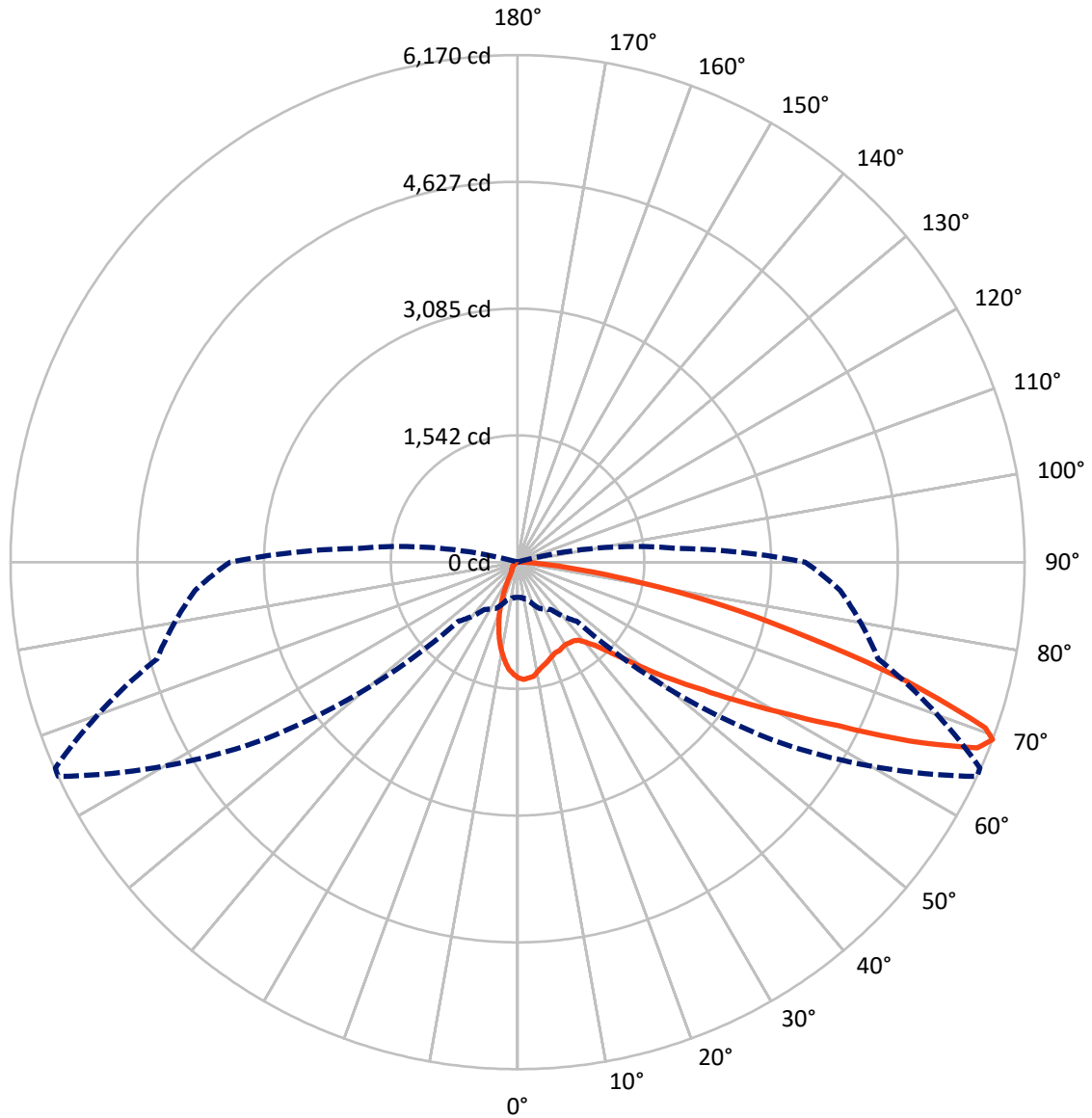
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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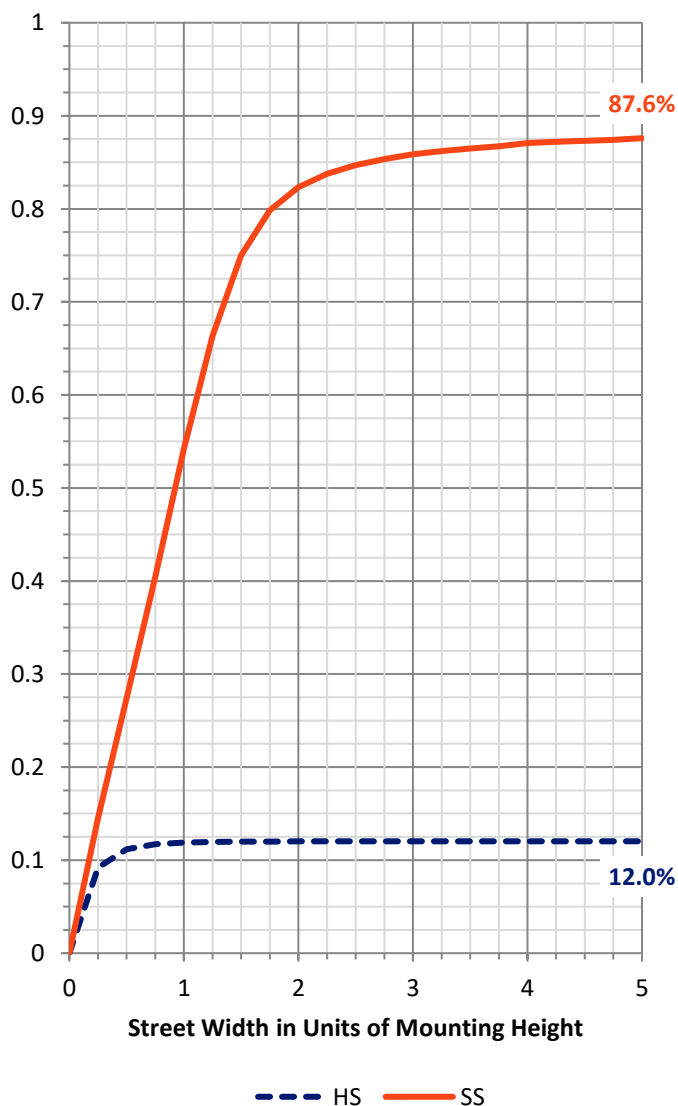
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.6	0.0	677.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4908.2	0.0	4908.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	5585.7	0.0	5585.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.1
10°-20°	252.2	4.5
20°-30°	351.1	6.3
30°-40°	497.5	8.9
40°-50°	784.0	14.0
50°-60°	1272.2	22.8
60°-70°	1420.8	25.4
70°-80°	800.0	14.3
80°-90°	92.8	1.7
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°	5585.7	100.0
0°-180°	5585.7	100.0

Coefficient of Utilization

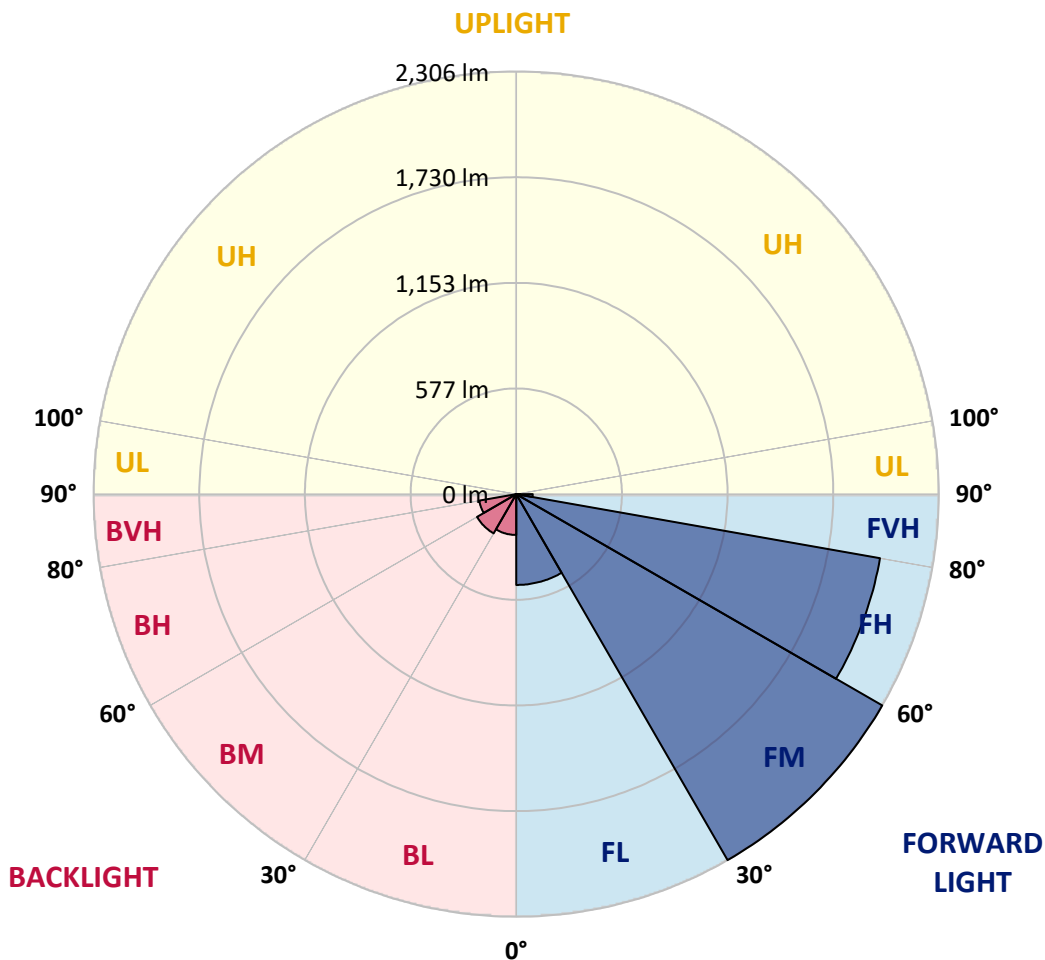


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.7	8.9			
FM (30°-60°)	2306.4	41.3			
FH (60°-80°)	2015.8	36.1			G2/5000
FVH (80°-90°)	90.3	1.6			G1/100
BL (0°-30°)	222.8	4.0	B1/500		
BM (30°-60°)	247.2	4.4	B1/1000		
BH (60°-80°)	205.0	3.7	B1/500		G1/500
BVH (80°-90°)	2.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1356.3	1366.8	1369.9	1380.4	1385.7	1408.3	1421.1	1428.6	1424.9	1433.2	1433.9
5°	1259.9	1253.8	1269.6	1281.0	1305.1	1344.2	1384.2	1415.1	1429.4	1443.0	1440.7
7.5°	1156.6	1153.6	1169.4	1195.1	1216.9	1264.4	1328.4	1404.5	1401.5	1434.7	1444.5
10°	1085.8	1088.8	1094.1	1119.7	1152.1	1200.3	1280.2	1351.0	1366.8	1436.9	1456.5
12.5°	1021.0	1026.3	1036.1	1062.4	1100.1	1149.8	1227.5	1310.3	1334.4	1424.1	1463.3
15°	999.9	987.8	1007.4	1027.0	1066.2	1110.7	1176.2	1279.4	1290.0	1409.0	1474.6
17.5°	982.6	975.0	984.1	999.9	1041.3	1077.5	1139.3	1246.3	1265.9	1403.0	1473.1
20°	987.8	981.1	984.8	996.9	1015.7	1049.6	1106.9	1214.6	1235.7	1375.1	1470.8
22.5°	1002.9	1008.2	1001.4	1004.4	1010.4	1027.8	1089.6	1192.0	1210.1	1369.9	1483.6
25°	1070.7	1061.7	1052.6	1048.9	1013.5	1021.0	1084.3	1190.5	1203.3	1351.0	1473.1
27.5°	1141.6	1134.0	1130.3	1108.4	1060.2	1037.6	1085.0	1169.4	1186.8	1343.5	1460.3
30°	1227.5	1237.2	1222.2	1195.8	1128.7	1073.0	1093.3	1158.9	1183.0	1314.9	1452.0
32.5°	1317.9	1323.1	1330.7	1311.1	1224.4	1126.5	1118.2	1168.7	1170.2	1314.9	1433.2
35°	1420.3	1412.8	1432.4	1433.9	1357.8	1221.4	1165.7	1175.5	1191.3	1308.8	1426.4
37.5°	1508.5	1521.3	1543.9	1580.1	1501.7	1355.5	1239.5	1207.1	1213.9	1336.7	1431.7
40°	1605.0	1617.8	1669.0	1705.2	1660.7	1506.2	1351.8	1281.0	1286.2	1378.2	1458.8
42.5°	1711.2	1736.1	1797.1	1860.4	1848.3	1697.6	1496.5	1389.5	1387.2	1481.4	1514.5
45°	1855.1	1888.3	1954.6	2027.7	2038.2	1916.9	1689.3	1551.5	1559.0	1616.3	1629.8
47.5°	2055.5	2054.0	2118.8	2200.2	2261.3	2144.5	1919.9	1769.2	1768.5	1829.5	1800.9
50°	2249.2	2250.0	2267.3	2361.5	2519.7	2460.2	2205.5	2058.6	2050.3	2080.4	2034.5
52.5°	2338.9	2328.3	2315.5	2429.3	2718.6	2858.0	2567.2	2386.3	2379.6	2361.5	2349.4
55°	2244.7	2248.4	2247.7	2366.0	2823.4	3277.7	3031.3	2747.3	2736.0	2679.4	2696.0
57.5°	1942.5	1930.5	1956.8	2141.4	2703.6	3564.1	3695.2	3202.4	3173.0	2985.4	2947.7
60°	1446.0	1449.7	1471.6	1689.3	2405.9	3624.3	4330.4	3736.6	3610.0	3200.9	3148.9
62.5°	1009.7	1002.2	1010.4	1132.5	1720.2	3383.2	4759.9	4386.1	4264.1	3445.8	3415.6
65°	722.6	712.8	746.0	820.6	1033.0	2586.8	4820.9	5251.1	5141.9	3836.8	3764.5
67.5°	519.9	518.4	556.8	692.5	733.9	1489.7	4368.8	6034.8	5968.5	4301.0	3977.0
69°	430.2	431.0	467.9	620.1	700.8	1017.2	3759.2	6169.7	6157.6	4540.6	3937.0
70°	375.2	378.3	421.2	577.2	687.2	836.4	3240.8	6037.0	6025.0	4587.3	3805.2
72.5°	231.3	233.6	290.1	462.6	653.3	682.7	1938.0	4939.2	4980.6	4373.3	3278.5
75°	110.8	111.5	152.2	334.6	629.9	647.3	1038.3	3644.7	3732.1	3530.9	2561.9
77.5°	58.8	58.8	73.1	177.8	510.1	608.8	616.4	2570.9	2643.3	2232.6	1456.5
80°	29.4	30.1	44.5	92.7	316.5	596.8	481.5	1533.4	1572.6	911.0	453.6
82.5°	11.3	12.1	21.1	55.8	164.3	504.1	422.7	754.3	744.5	213.2	110.8
85°	1.5	1.5	7.5	33.2	70.1	222.3	348.9	315.0	304.4	46.7	53.5
87.5°	0.0	0.0	1.5	9.8	21.1	64.8	134.9	86.7	96.4	12.8	26.4
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°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1430.1	1414.3	1390.2	1366.8	1342.0	1311.8	1278.7	1266.6	1245.5	1244.0	1256.1
5°	1428.6	1403.0	1360.8	1311.1	1240.3	1186.8	1128.7	1086.5	1054.1	1033.0	1038.3
7.5°	1436.2	1405.3	1332.2	1225.2	1134.0	1027.8	938.1	876.3	819.8	791.9	788.9
10°	1424.1	1382.7	1275.7	1125.7	991.6	843.2	712.1	629.2	544.8	513.9	515.4
12.5°	1430.9	1372.9	1214.6	1023.3	838.6	645.7	489.0	376.0	296.9	271.3	268.2
15°	1435.4	1351.8	1155.9	900.4	669.1	440.0	283.3	213.2	188.4	183.9	183.1
17.5°	1418.1	1326.2	1073.0	779.1	495.8	267.5	188.4	174.1	169.5	166.5	165.0
20°	1417.3	1311.1	1001.4	654.8	330.8	182.3	162.8	157.5	150.7	148.4	148.4
22.5°	1404.5	1279.4	915.5	518.4	211.0	156.7	146.2	137.9	130.4	127.3	126.6
25°	1400.8	1242.5	834.9	389.6	160.5	140.2	129.6	117.5	108.5	104.0	101.7
27.5°	1390.2	1210.9	753.5	274.3	140.2	125.1	111.5	98.7	88.2	81.4	80.6
30°	1352.5	1177.7	663.1	189.9	127.3	110.8	95.7	80.6	70.1	65.6	64.0
32.5°	1336.7	1146.8	564.4	146.2	116.0	98.0	80.6	67.1	58.8	54.3	53.5
35°	1317.9	1101.6	468.7	127.3	105.5	85.1	67.8	56.5	49.7	46.0	46.0
37.5°	1320.1	1065.4	379.0	115.3	94.2	73.1	58.0	48.2	42.2	38.4	38.4
40°	1313.4	1036.8	294.6	104.7	83.6	62.5	49.0	40.7	35.4	31.6	30.9
42.5°	1344.2	1029.3	222.3	95.7	73.1	53.5	42.2	34.7	29.4	24.9	24.9
45°	1396.2	1041.3	173.3	87.4	62.5	46.0	36.2	28.6	23.4	20.3	19.6
47.5°	1534.9	1088.8	135.6	80.6	53.5	39.9	30.1	23.4	18.8	15.8	15.1
50°	1736.1	1195.1	115.3	70.8	45.2	33.9	24.9	18.1	15.1	12.1	11.3
52.5°	2022.4	1373.6	104.7	62.5	37.7	27.9	19.6	14.3	11.3	9.0	8.3
55°	2334.3	1596.7	94.9	52.7	31.6	22.6	15.8	11.3	8.3	6.0	5.3
57.5°	2577.7	1789.6	86.7	43.7	25.6	18.1	12.1	8.3	6.0	3.8	3.0
60°	2843.7	1925.2	76.1	34.7	21.1	13.6	9.0	6.0	4.5	2.3	2.3
62.5°	3118.0	2084.2	62.5	27.1	16.6	10.5	6.8	4.5	3.0	0.8	0.8
65°	3499.3	2208.5	48.2	21.1	12.8	7.5	5.3	3.8	1.5	0.0	0.0
67.5°	3607.0	2147.5	35.4	16.6	9.0	5.3	3.8	2.3	0.8	0.0	0.0
69°	3499.3	1934.2	30.9	14.3	7.5	4.5	3.0	1.5	0.8	0.0	0.0
70°	3302.6	1768.5	27.1	12.1	6.8	4.5	2.3	1.5	0.8	0.0	0.0
72.5°	2762.3	1356.3	21.1	9.0	5.3	3.8	2.3	1.5	0.0	0.0	0.0
75°	2026.2	837.9	15.8	6.8	4.5	3.0	2.3	1.5	0.0	0.0	0.0
77.5°	1085.8	305.9	11.3	4.5	3.0	2.3	2.3	1.5	0.0	0.0	0.0
80°	297.6	90.4	8.3	3.0	2.3	1.5	1.5	0.8	0.0	0.0	0.0
82.5°	81.4	23.4	5.3	3.0	2.3	1.5	0.8	0.0	0.0	0.0	0.0
85°	43.7	9.0	3.0	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	3.0	2.3	1.5	1.5	0.8	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)