

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: P482954

Luminaire Tested: **IFLD-S-SA3B-827-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482954
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

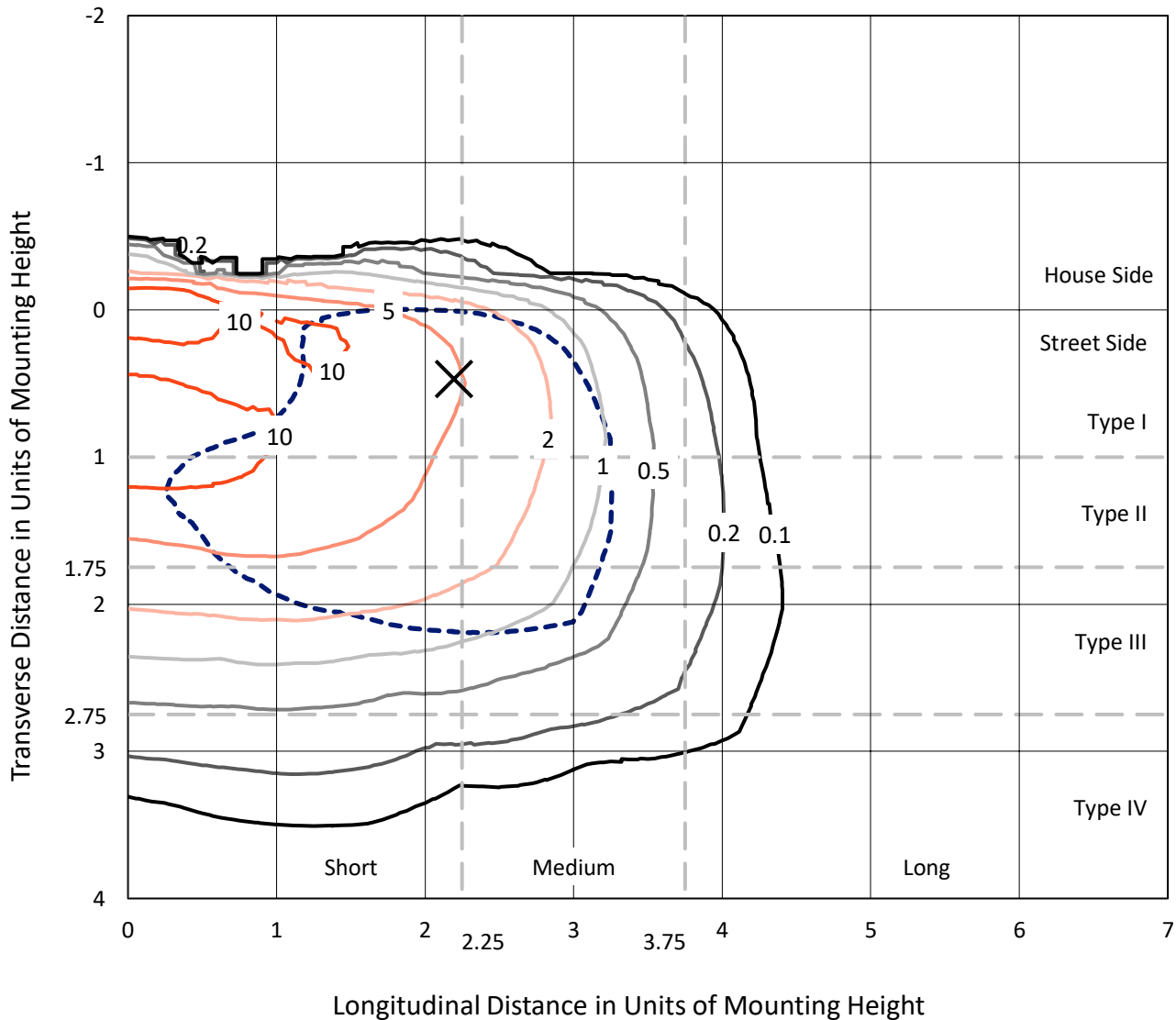
Lumens per Lamp: N/A
Luminaire Lumens: 8966.2 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

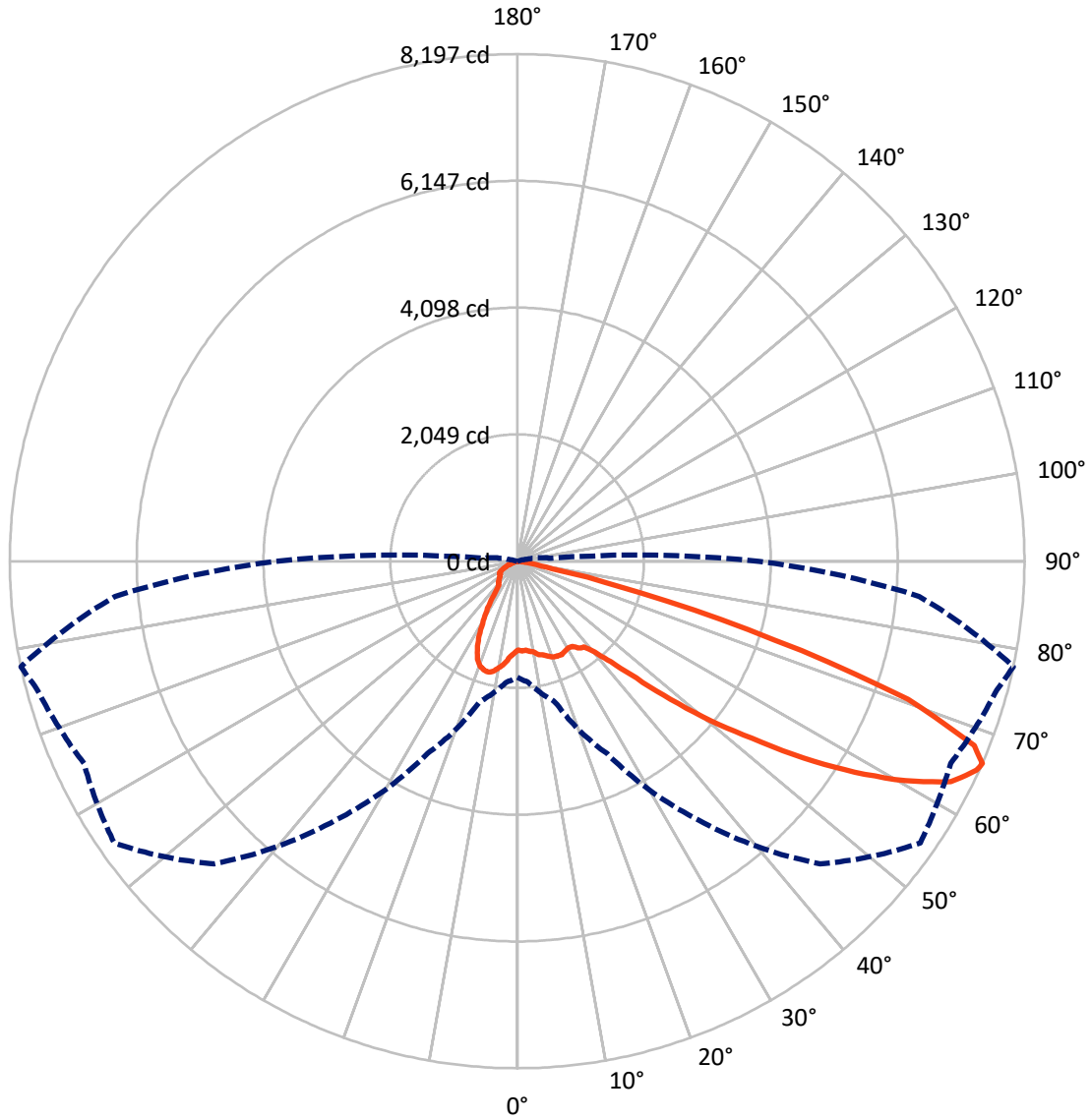
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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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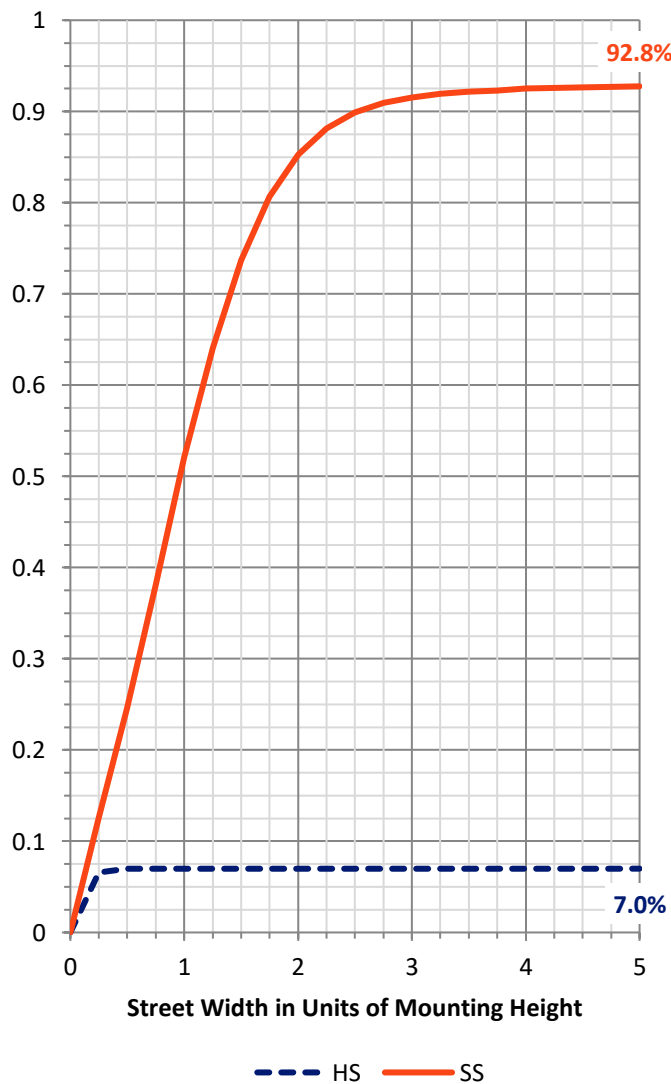
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.4	0.0	630.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	8335.9	0.0	8335.9
	% Fixture	93.0	0.0	93.0
Total	Lumens	8966.2	0.0	8966.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.5
10°-20°	296.6	3.3
20°-30°	423.9	4.7
30°-40°	725.6	8.1
40°-50°	1309.6	14.6
50°-60°	2239.7	25.0
60°-70°	2756.6	30.7
70°-80°	1042.2	11.6
80°-90°	40.7	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°	8966.2	100.0
0°-180°	8966.2	100.0

Coefficient of Utilization

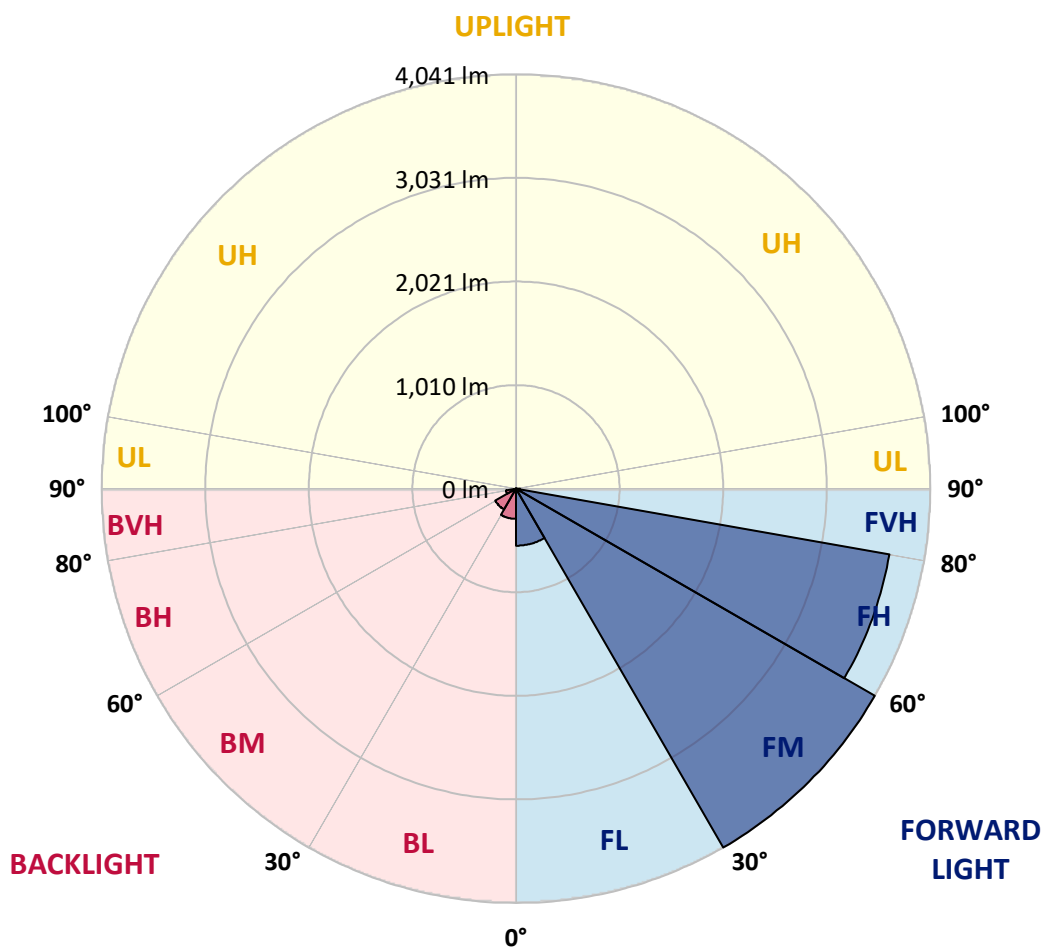


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.6	6.2			
FM (30°-60°)	4041.3	45.1			
FH (60°-80°)	3698.9	41.3			G2/5000
FVH (80°-90°)	39.1	0.4			G1/100
BL (0°-30°)	295.2	3.3	B1/500		
BM (30°-60°)	233.6	2.6	B1/1000		
BH (60°-80°)	99.9	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1
2.5°	1320.9	1308.7	1320.9	1338.6	1348.0	1356.2	1384.6	1409.0	1434.7	1452.4	1446.9
5°	1224.7	1247.8	1250.5	1255.9	1270.8	1319.6	1335.8	1377.8	1441.5	1446.9	1471.3
7.5°	1148.9	1142.1	1159.7	1194.9	1232.9	1261.3	1308.7	1381.9	1448.3	1471.3	1518.7
10°	1039.1	1052.7	1071.7	1106.9	1152.9	1223.4	1307.4	1388.7	1483.5	1491.6	1579.7
12.5°	979.5	966.0	995.8	1032.4	1110.9	1176.0	1278.9	1376.5	1505.2	1549.9	1651.5
15°	930.8	937.5	966.0	990.4	1055.4	1138.0	1258.6	1406.3	1541.8	1572.9	1727.4
17.5°	910.4	906.4	928.0	952.4	1032.4	1125.8	1250.5	1407.6	1574.3	1614.9	1778.9
20°	919.9	928.0	921.3	944.3	994.4	1089.3	1262.7	1433.4	1598.7	1654.2	1834.4
22.5°	1068.9	1058.1	1003.9	960.6	963.3	1074.4	1253.2	1449.6	1620.4	1665.1	1872.3
25°	1457.8	1399.5	1265.4	1098.8	989.0	1033.7	1242.4	1444.2	1616.3	1671.8	1895.4
27.5°	1849.3	1799.2	1667.8	1409.0	1093.3	1017.5	1204.4	1448.3	1596.0	1647.5	1857.4
30°	2262.5	2289.6	2094.5	1787.0	1367.0	1106.9	1180.0	1426.6	1582.4	1625.8	1865.6
32.5°	2686.6	2675.8	2557.9	2224.6	1758.5	1304.7	1219.3	1448.3	1600.0	1642.0	1913.0
35°	3018.5	2980.6	2861.4	2560.6	2082.3	1602.7	1354.8	1551.3	1677.3	1727.4	1980.7
37.5°	3182.5	3198.7	3129.6	2868.1	2437.3	1879.1	1524.2	1551.3	1701.6	1759.9	2090.5
40°	3309.8	3358.6	3332.8	3248.8	2789.6	2190.7	1711.1	1647.5	1824.9	1934.7	2296.4
42.5°	3462.9	3439.9	3591.6	3514.4	3250.2	2583.6	2039.0	1876.4	2116.2	2221.9	2605.3
45°	3544.2	3632.2	3747.4	3846.3	3677.0	3074.1	2467.1	2281.5	2561.9	2696.1	3064.6
47.5°	3752.8	3788.1	3975.0	4099.7	4023.8	3635.0	3117.4	2873.6	3122.8	3334.2	3590.2
50°	3874.8	3827.3	4088.8	4278.5	4321.8	4099.7	3700.0	3510.3	3789.4	4059.0	4082.0
52.5°	3767.7	3903.2	4164.7	4504.7	4625.3	4514.2	4384.2	4301.5	4498.0	4747.3	4636.2
55°	3392.4	3484.6	4121.3	4752.7	5141.5	5090.0	5210.6	5156.4	5354.2	5618.4	5283.8
57.5°	3090.3	3205.5	3765.0	4881.4	5622.5	5774.2	5925.9	5892.1	6130.5	6435.4	5832.5
60°	2902.0	2968.4	3507.6	4848.9	5907.0	6481.4	6824.2	6585.7	6974.6	7207.6	6261.9
62.5°	2575.5	2617.5	3132.3	4418.0	5992.3	6981.3	7562.6	7238.8	7576.1	7860.6	6570.8
65°	2064.7	2178.5	2603.9	3773.1	5428.7	7073.5	8023.2	7642.5	7969.0	8156.0	6664.3
66°	1879.1	1961.8	2352.0	3431.7	5107.6	6920.4	7946.0	7726.5	8025.9	8196.6	6520.7
67.5°	1559.4	1631.2	1941.4	2945.4	4450.6	6583.0	8000.2	7669.6	8069.3	7964.9	6328.3
70°	1032.4	1078.4	1327.7	1991.6	3099.8	5385.4	7420.3	7225.2	7093.8	6702.3	4947.8
72.5°	482.3	548.7	829.1	1207.1	1818.2	3767.7	6050.6	5789.1	4974.9	4348.9	3121.5
75°	218.1	247.9	455.2	692.3	815.6	1952.3	3903.2	3525.2	2476.6	2056.6	1367.0
77.5°	117.9	134.1	222.2	329.2	296.7	684.2	1932.0	1606.8	780.4	571.7	397.0
80°	90.8	107.0	185.6	188.3	109.7	177.5	718.0	497.2	195.1	147.7	94.8
82.5°	47.4	67.7	146.3	121.9	55.5	71.8	222.2	138.2	61.0	48.8	40.6
85°	19.0	29.8	82.6	81.3	32.5	24.4	62.3	42.0	24.4	20.3	19.0
87.5°	1.4	1.4	44.7	31.2	20.3	6.8	9.5	9.5	12.2	10.8	13.5
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°	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1
2.5°	1471.3	1487.6	1490.3	1535.0	1544.5	1535.0	1559.4	1555.3	1566.2	1558.0	1543.1
5°	1505.2	1528.2	1572.9	1606.8	1606.8	1579.7	1558.0	1529.6	1487.6	1476.7	1468.6
7.5°	1563.5	1636.6	1677.3	1655.6	1612.2	1510.6	1369.7	1266.7	1180.0	1147.5	1132.6
10°	1666.4	1707.1	1754.5	1666.4	1486.2	1270.8	1033.7	877.9	756.0	728.9	708.6
12.5°	1732.8	1797.8	1824.9	1606.8	1253.2	932.1	674.7	498.6	413.2	348.2	337.3
15°	1819.5	1894.0	1838.5	1445.6	987.7	611.0	349.5	218.1	177.5	166.6	166.6
17.5°	1879.1	1960.4	1782.9	1245.1	700.4	325.2	173.4	150.4	147.7	149.0	146.3
20°	1983.4	2032.2	1698.9	1012.0	418.6	166.6	139.5	134.1	131.4	135.5	132.8
22.5°	2022.7	2067.4	1562.1	733.0	188.3	111.1	104.3	100.3	103.0	101.6	100.3
25°	2020.0	2043.1	1337.2	420.0	55.5	43.4	39.3	39.3	36.6	37.9	36.6
27.5°	2040.3	1983.4	1085.2	124.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2051.2	1887.3	772.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2056.6	1837.1	497.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2098.6	1736.9	212.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2127.1	1608.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2244.9	1567.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2398.0	1491.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2610.7	1379.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2892.5	1312.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3102.5	1208.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3369.4	1146.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3686.4	1148.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3975.0	1129.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4122.7	966.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4091.5	781.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3983.1	613.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3908.6	543.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3682.4	434.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2930.5	298.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1864.2	182.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	859.0	84.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	269.6	51.5	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.5	32.5	10.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.6	23.0	9.5	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.0	9.5	4.1	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	5.4	2.7	2.7	1.4	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)