

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: P481666

Luminaire Tested: **IFLD-S-SA3A-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481666
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

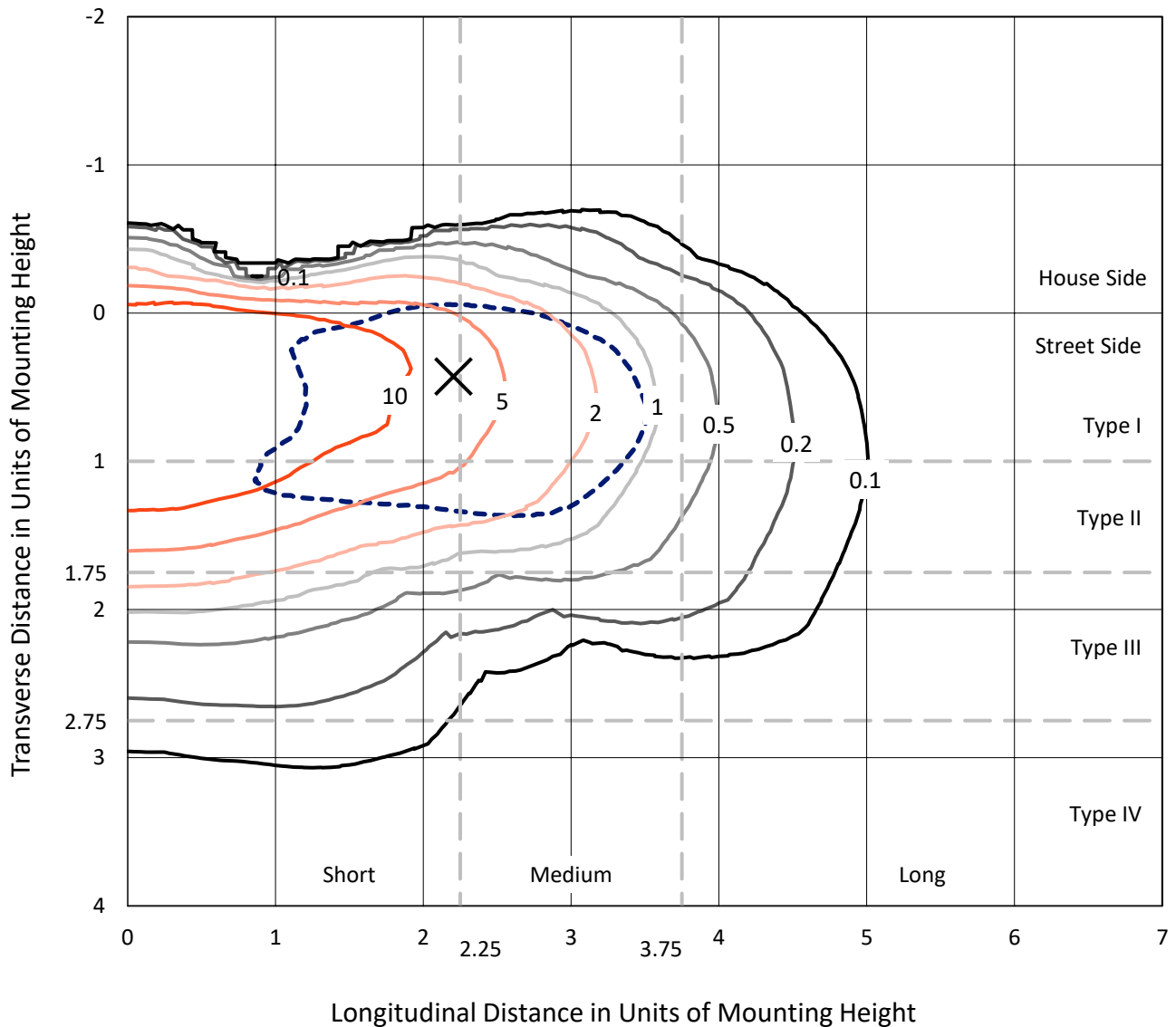
Lumens per Lamp: N/A
Luminaire Lumens: 9908 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

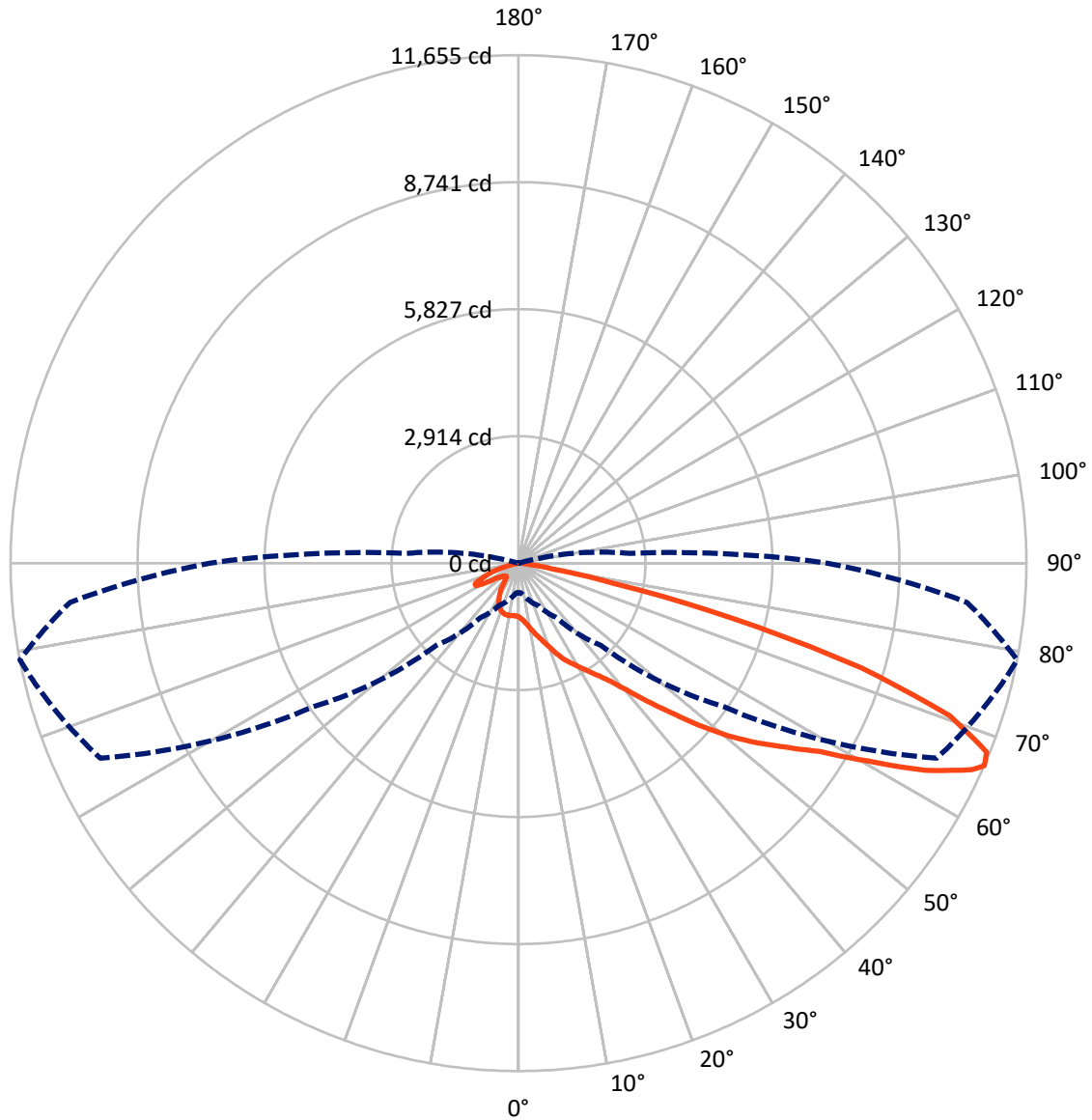
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.0	0.0	744.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9164.1	0.0	9164.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	9908.0	0.0	9908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.2
10°-20°	320.8	3.2
20°-30°	533.0	5.4
30°-40°	915.5	9.2
40°-50°	1658.5	16.7
50°-60°	2621.6	26.5
60°-70°	2667.7	26.9
70°-80°	1017.3	10.3
80°-90°	57.0	0.6
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°	9908.0	100.0
0°-180°	9908.0	100.0

Coefficient of Utilization

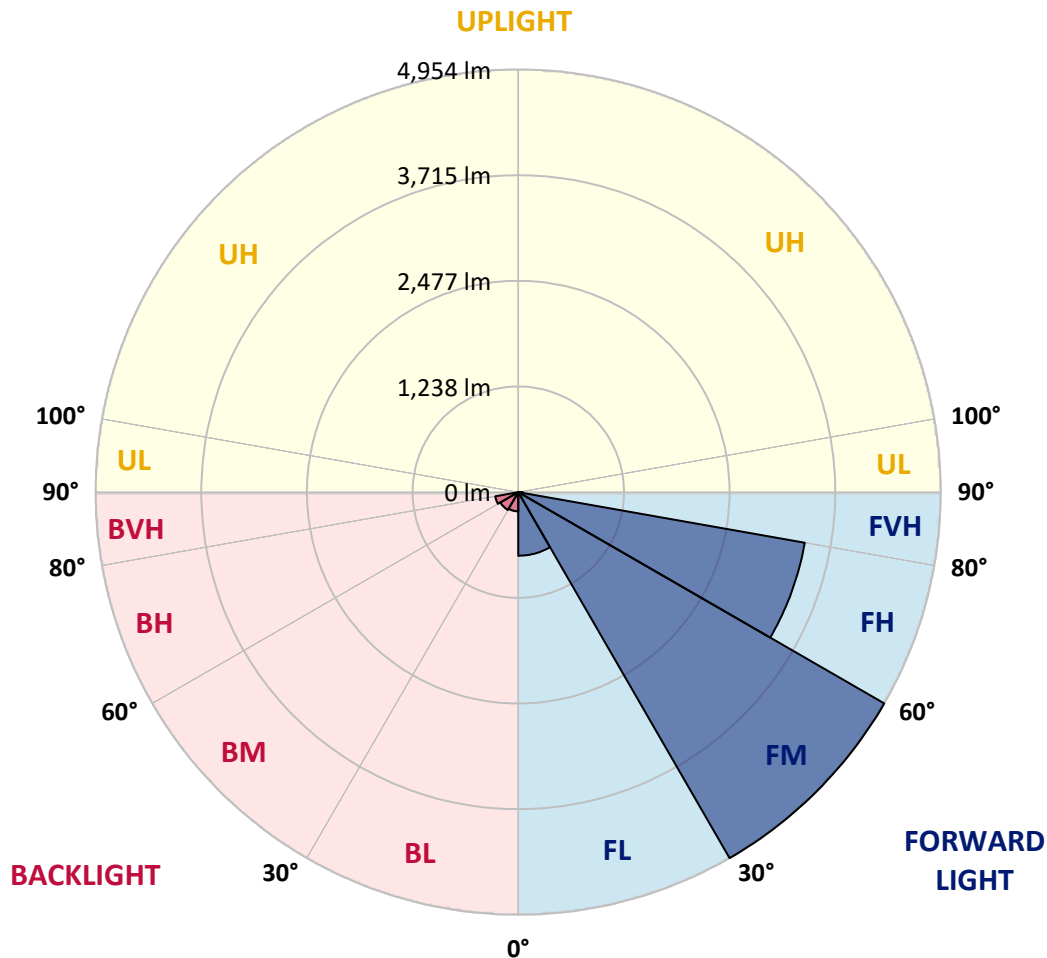


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.4	7.5			
FM (30°-60°)	4953.8	50.0			
FH (60°-80°)	3410.8	34.4			G2/5000
FVH (80°-90°)	54.1	0.5			G1/100
BL (0°-30°)	225.0	2.3	B1/500		
BM (30°-60°)	241.8	2.4	B1/1000		
BH (60°-80°)	274.3	2.8	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7
2.5°	1396.1	1394.6	1388.5	1377.8	1364.0	1359.5	1339.6	1312.1	1296.8	1280.0	1272.4
5°	1492.4	1484.7	1503.0	1495.4	1498.5	1461.8	1437.4	1417.5	1359.5	1336.5	1299.9
7.5°	1513.7	1521.4	1519.8	1532.1	1544.3	1558.0	1541.2	1512.2	1454.2	1420.6	1380.8
10°	1513.7	1510.7	1522.9	1539.7	1574.8	1605.4	1651.2	1613.0	1568.7	1529.0	1457.2
12.5°	1486.2	1481.7	1493.9	1529.0	1591.6	1654.3	1704.7	1741.3	1678.7	1646.6	1553.5
15°	1402.2	1397.6	1448.1	1510.7	1593.2	1695.5	1800.9	1860.5	1817.7	1767.3	1663.4
17.5°	1298.4	1304.5	1357.9	1461.8	1593.2	1715.4	1849.8	1979.6	1973.5	1909.4	1800.9
20°	1263.2	1267.8	1321.3	1396.1	1545.8	1729.1	1926.2	2109.5	2146.1	2069.7	1927.7
22.5°	1330.4	1325.9	1330.4	1376.3	1513.7	1716.9	1976.6	2257.6	2323.3	2263.7	2094.2
25°	1559.6	1556.5	1518.3	1448.1	1495.4	1689.4	2002.5	2355.4	2506.6	2451.6	2228.6
27.5°	1895.6	1883.4	1823.8	1677.2	1580.9	1706.2	2045.3	2450.1	2667.0	2604.4	2349.3
30°	2256.1	2227.1	2149.2	1965.9	1802.4	1768.8	2069.7	2520.3	2845.7	2766.3	2454.7
32.5°	2505.1	2543.3	2518.8	2332.5	2082.0	1913.9	2109.5	2608.9	3010.7	2958.7	2634.9
35°	2890.0	2934.3	2832.0	2667.0	2415.0	2144.6	2193.5	2680.7	3264.2	3177.2	2802.9
37.5°	3375.7	3409.3	3336.0	3022.9	2757.1	2428.7	2366.1	2830.4	3482.7	3441.4	3018.3
40°	3620.1	3782.0	3678.2	3395.6	3110.0	2825.8	2651.7	3006.1	3863.0	3829.4	3316.2
42.5°	3957.7	4038.7	3985.2	3775.9	3478.1	3250.5	3004.6	3348.2	4324.3	4324.3	3719.4
45°	4315.1	4318.2	4315.1	4144.1	3879.8	3762.2	3481.1	3777.5	4820.7	4875.7	4202.1
47.5°	4608.4	4700.1	4692.4	4590.1	4385.4	4341.1	3957.7	4266.3	5444.0	5540.2	4672.6
50°	4759.6	4862.0	4892.5	4946.0	4936.8	5030.0	4478.6	4833.0	5981.6	6218.4	5277.5
52.5°	4718.4	4726.0	4913.9	5124.7	5460.8	5722.0	5106.4	5476.0	6610.9	6844.7	5744.9
55°	4380.8	4351.8	4738.3	4979.6	5674.6	6145.1	5975.5	6278.0	7101.3	7457.2	6227.5
57.5°	3640.0	3647.6	4005.1	4495.4	5515.7	6313.1	6904.2	7325.8	7788.6	8147.6	6905.8
60°	2512.7	2503.5	2903.7	3470.4	4582.5	6000.0	7438.8	8683.7	8708.2	9216.8	8123.2
62.5°	1412.9	1416.0	1719.9	2204.2	3206.2	4903.2	7412.9	10125.7	10021.8	10467.8	9507.1
65°	800.4	820.3	1029.5	1306.0	1920.0	3291.7	6375.7	10700.0	11034.5	11431.7	10347.2
66°	676.7	690.4	869.1	1078.4	1532.1	2670.0	5738.8	10588.5	11352.3	11654.7	10330.4
67.5°	523.9	542.3	691.9	855.4	1124.2	1848.3	4619.1	10034.0	11410.3	11587.5	10038.6
70°	359.0	371.2	485.7	649.2	768.3	945.5	2761.7	8295.8	10353.3	10503.0	8725.0
72.5°	252.0	258.1	340.6	491.8	591.1	540.7	1370.2	5902.2	7923.1	8214.8	6786.6
75°	181.8	187.9	233.7	352.8	461.3	354.4	627.8	3769.8	4858.9	5088.0	4087.5
77.5°	131.4	139.0	158.9	227.6	334.5	249.0	308.6	1968.9	2291.2	2251.5	1758.1
80°	79.4	87.1	117.6	146.6	244.4	175.7	169.6	821.8	812.6	771.4	552.9
82.5°	36.7	42.8	62.6	99.3	171.1	122.2	81.0	293.3	256.6	235.2	155.8
85°	10.7	13.7	36.7	74.8	87.1	59.6	48.9	100.8	105.4	90.1	51.9
87.5°	0.0	1.5	16.8	18.3	26.0	19.9	18.3	26.0	48.9	39.7	16.8
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°	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7	1232.7
2.5°	1244.9	1234.2	1208.2	1168.5	1133.4	1115.1	1089.1	1066.2	1054.0	1052.4	1050.9
5°	1275.4	1246.4	1183.8	1112.0	1058.5	1000.5	960.8	931.8	904.3	878.3	893.6
7.5°	1316.7	1270.9	1168.5	1075.3	959.3	884.4	814.1	772.9	748.5	725.6	722.5
10°	1380.8	1322.8	1157.8	989.8	856.9	746.9	675.1	615.6	582.0	542.3	557.5
12.5°	1467.9	1364.0	1118.1	911.9	740.8	624.7	522.4	426.2	372.7	331.5	333.0
15°	1555.0	1419.0	1081.5	817.2	635.4	482.7	333.0	267.3	252.0	242.9	245.9
17.5°	1640.5	1463.3	1024.9	721.0	514.8	307.0	242.9	229.1	221.5	212.3	212.3
20°	1744.4	1492.4	954.7	632.4	354.4	227.6	207.7	198.6	186.4	174.1	175.7
22.5°	1845.2	1516.8	873.7	519.3	238.3	197.0	174.1	161.9	151.2	139.0	139.0
25°	1946.0	1524.4	768.3	372.7	192.5	157.3	135.9	119.1	108.5	97.8	99.3
27.5°	2014.8	1477.1	669.0	238.3	154.3	119.1	94.7	81.0	71.8	61.1	61.1
30°	2054.5	1390.0	562.1	168.0	116.1	81.0	56.5	42.8	33.6	26.0	24.4
32.5°	2094.2	1319.7	441.4	128.3	76.4	42.8	21.4	7.6	0.0	0.0	0.0
35°	2173.6	1240.3	296.3	71.8	26.0	1.5	0.0	0.0	0.0	0.0	0.0
37.5°	2224.0	1130.3	135.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2350.8	1075.3	33.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2557.0	1037.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2783.1	1021.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3084.0	1063.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3401.7	1174.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3750.0	1280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4053.9	1406.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4613.0	1706.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5616.6	2294.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6746.9	2731.1	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7160.8	2720.4	29.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7087.5	2570.8	29.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6707.2	2283.6	26.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5760.1	1886.4	26.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4391.5	1469.4	24.4	6.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2650.2	782.1	19.9	7.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1055.5	274.9	15.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	285.6	82.5	9.2	6.1	4.6	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	74.8	30.5	7.6	6.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0
85°	29.0	12.2	6.1	4.6	4.6	3.1	1.5	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	4.6	3.1	3.1	1.5	1.5	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)