

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: P481530

Luminaire Tested: **IFLD-M-SA4A-722-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481530
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

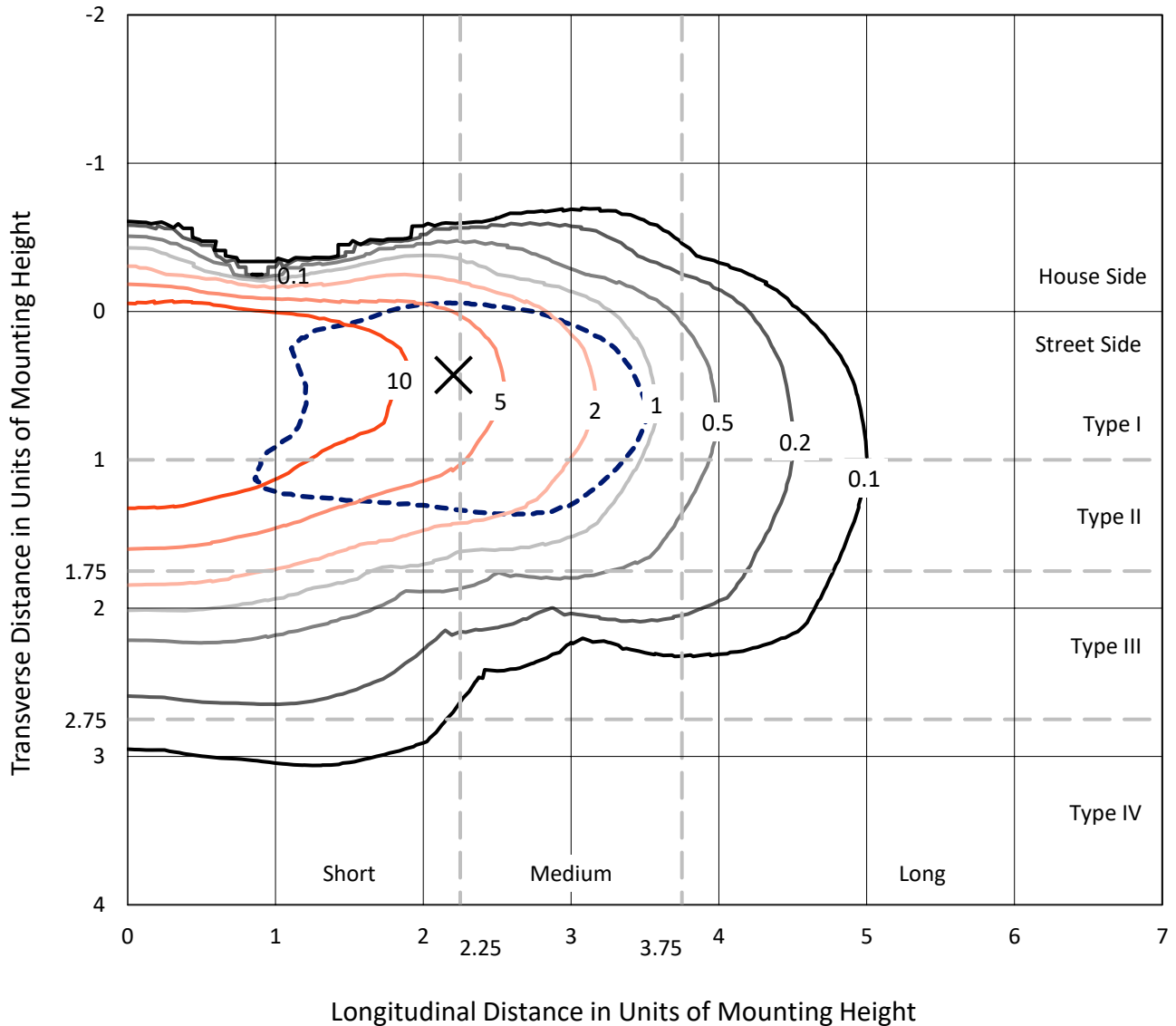
Lumens per Lamp: N/A
Luminaire Lumens: 9796.1 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

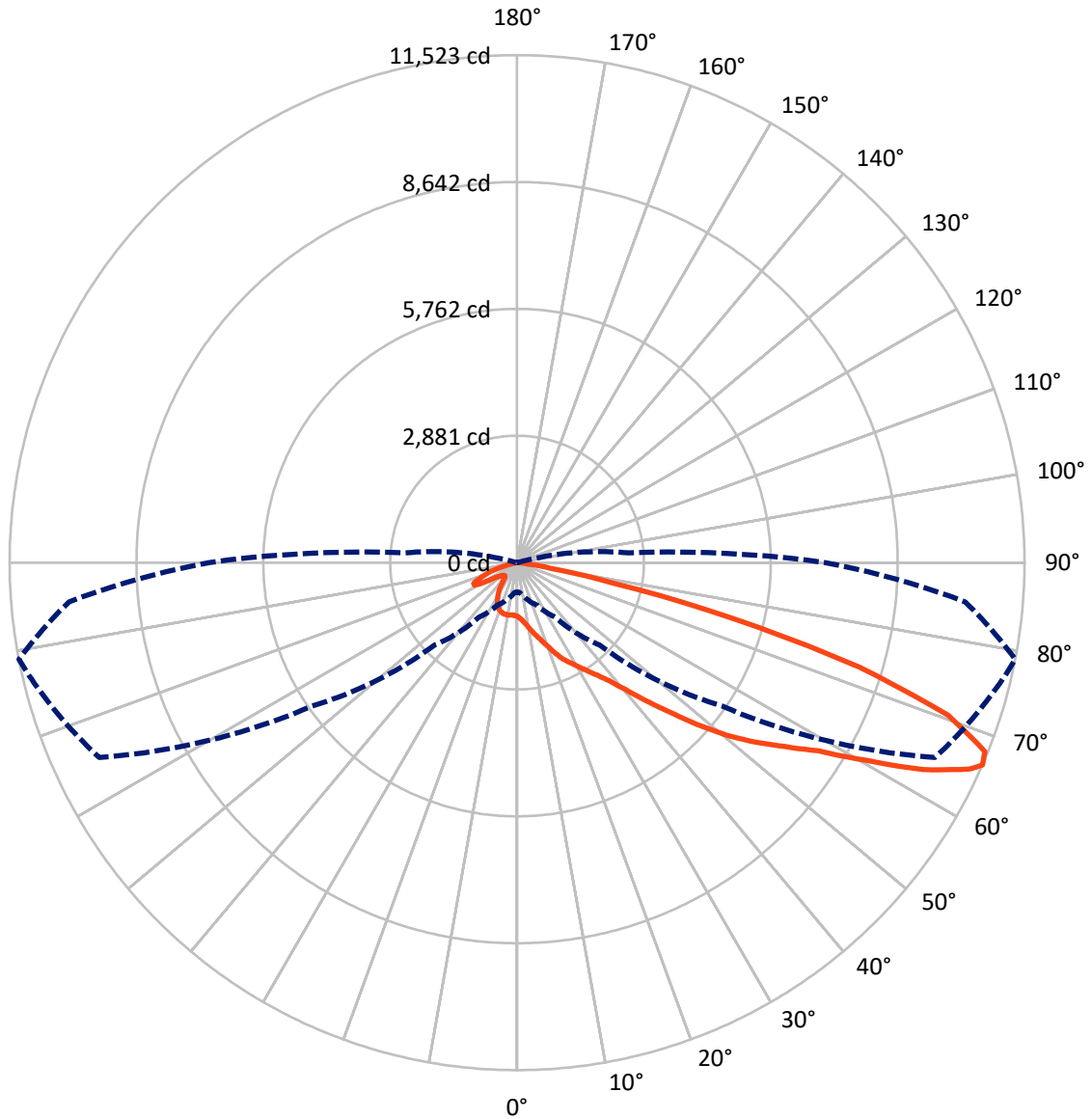
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 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	735.5	0.0	735.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9060.5	0.0	9060.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	9796.1	0.0	9796.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.2
10°-20°	317.2	3.2
20°-30°	527.0	5.4
30°-40°	905.1	9.2
40°-50°	1639.8	16.7
50°-60°	2592.0	26.5
60°-70°	2637.5	26.9
70°-80°	1005.8	10.3
80°-90°	56.4	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°	9796.1	100.0
0°-180°	9796.1	100.0

Coefficient of Utilization

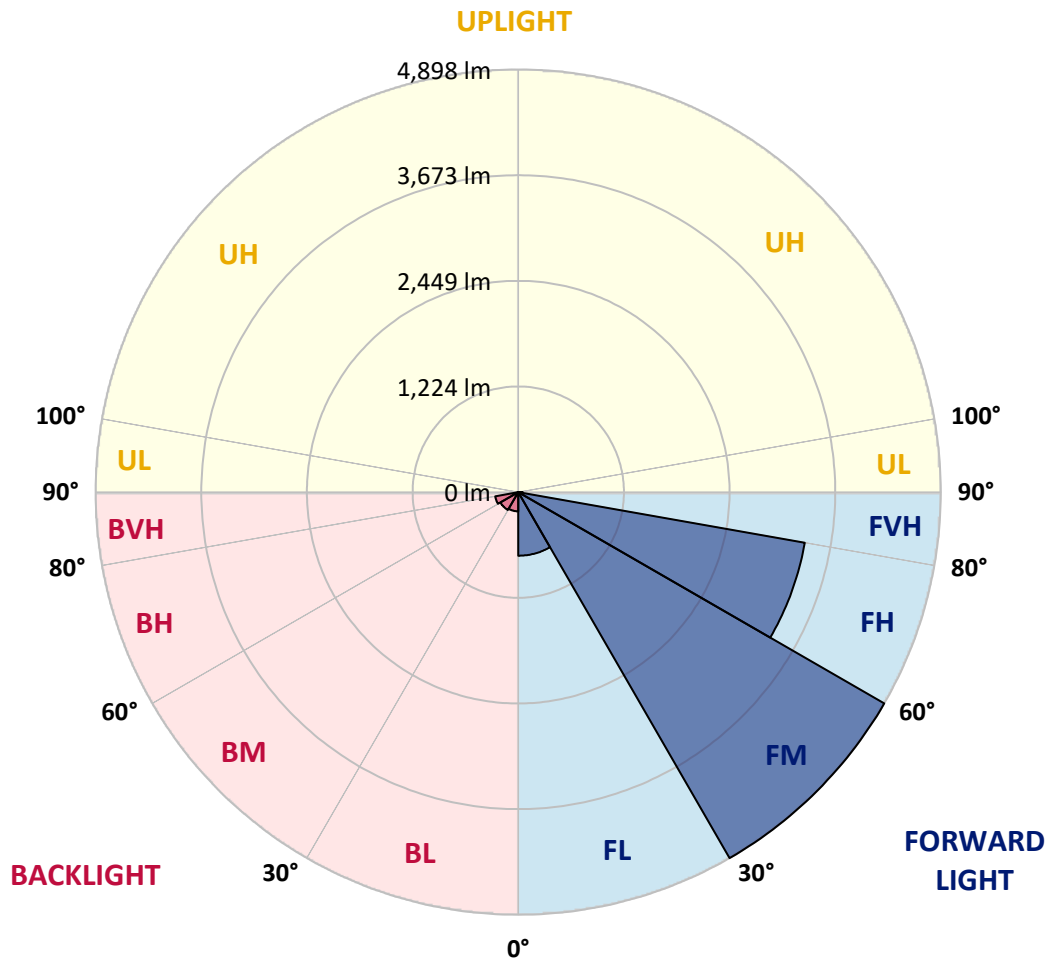


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.0	7.5			
FM (30°-60°)	4897.8	50.0			
FH (60°-80°)	3372.2	34.4			G2/5000
FVH (80°-90°)	53.5	0.5			G1/100
BL (0°-30°)	222.4	2.3	B1/500		
BM (30°-60°)	239.1	2.4	B1/1000		
BH (60°-80°)	271.2	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°	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8
2.5°	1380.3	1378.8	1372.8	1362.2	1348.6	1344.1	1324.5	1297.3	1282.2	1265.6	1258.0
5°	1475.5	1467.9	1486.1	1478.5	1481.5	1445.3	1421.1	1401.5	1344.1	1321.4	1285.2
7.5°	1496.6	1504.2	1502.7	1514.8	1526.8	1540.4	1523.8	1495.1	1437.7	1404.5	1365.2
10°	1496.6	1493.6	1505.7	1522.3	1557.0	1587.2	1632.6	1594.8	1551.0	1511.7	1440.8
12.5°	1469.4	1464.9	1477.0	1511.7	1573.7	1635.6	1685.4	1721.7	1659.7	1628.0	1535.9
15°	1386.4	1381.9	1431.7	1493.6	1575.2	1676.3	1780.6	1839.5	1797.2	1747.3	1644.6
17.5°	1283.7	1289.7	1342.6	1445.3	1575.2	1696.0	1828.9	1957.3	1951.2	1887.8	1780.6
20°	1249.0	1253.5	1306.3	1380.3	1528.3	1709.6	1904.4	2085.6	2121.9	2046.4	1905.9
22.5°	1315.4	1310.9	1315.4	1360.7	1496.6	1697.5	1954.2	2232.1	2297.1	2238.2	2070.5
25°	1541.9	1538.9	1501.2	1431.7	1478.5	1670.3	1979.9	2328.8	2478.3	2423.9	2203.4
27.5°	1874.2	1862.1	1803.2	1658.2	1563.1	1686.9	2022.2	2422.4	2636.9	2574.9	2322.7
30°	2230.6	2201.9	2124.9	1943.7	1782.1	1748.8	2046.4	2491.9	2813.5	2735.0	2426.9
32.5°	2476.8	2514.5	2490.4	2306.1	2058.4	1892.3	2085.6	2579.5	2976.7	2925.3	2605.1
35°	2857.3	2901.1	2800.0	2636.9	2387.7	2120.4	2168.7	2650.4	3227.3	3141.3	2771.3
37.5°	3337.6	3370.8	3298.3	2988.7	2726.0	2401.3	2339.3	2798.4	3443.3	3402.5	2984.2
40°	3579.2	3739.3	3636.6	3357.2	3074.8	2793.9	2621.7	2972.1	3819.4	3786.1	3278.7
42.5°	3913.0	3993.0	3940.2	3733.3	3438.8	3213.8	2970.6	3310.4	4275.4	4275.4	3677.4
45°	4266.4	4269.4	4266.4	4097.2	3836.0	3719.7	3441.8	3734.8	4766.3	4820.6	4154.6
47.5°	4556.3	4647.0	4639.4	4538.2	4335.9	4292.1	3913.0	4218.1	5382.4	5477.6	4619.8
50°	4705.9	4807.0	4837.2	4890.1	4881.0	4973.2	4428.0	4778.3	5914.0	6148.1	5217.8
52.5°	4665.1	4672.6	4858.4	5066.8	5399.1	5657.3	5048.7	5414.2	6536.2	6767.3	5680.0
55°	4331.3	4302.6	4684.7	4923.3	5610.5	6075.6	5908.0	6207.0	7021.0	7372.9	6157.2
57.5°	3598.9	3606.4	3959.8	4444.6	5453.4	6241.8	6826.2	7243.0	7700.6	8055.5	6827.7
60°	2484.3	2475.3	2870.9	3431.2	4530.7	5932.2	7354.8	8585.6	8609.8	9112.7	8031.4
62.5°	1397.0	1400.0	1700.5	2179.3	3170.0	4847.8	7329.1	10011.3	9908.6	10349.6	9399.6
65°	791.4	811.0	1017.9	1291.2	1898.4	3254.5	6303.7	10579.1	10909.9	11302.5	10230.3
66°	669.0	682.6	859.3	1066.2	1514.8	2639.9	5673.9	10468.9	11224.0	11523.0	10213.6
67.5°	518.0	536.1	684.1	845.7	1111.5	1827.4	4566.9	9920.7	11281.4	11456.6	9925.2
70°	354.9	367.0	480.3	641.8	759.6	934.8	2730.5	8202.0	10236.3	10384.3	8626.4
72.5°	249.2	255.2	336.8	486.3	584.5	534.6	1354.7	5835.5	7833.5	8122.0	6709.9
75°	179.7	185.8	231.1	348.9	456.1	350.4	620.7	3727.2	4804.0	5030.6	4041.4
77.5°	129.9	137.4	157.1	225.0	330.7	246.2	305.1	1946.7	2265.3	2226.1	1738.3
80°	78.5	86.1	116.3	145.0	241.6	173.7	167.6	812.5	803.4	762.7	546.7
82.5°	36.2	42.3	61.9	98.2	169.1	120.8	80.0	290.0	253.7	232.6	154.0
85°	10.6	13.6	36.2	74.0	86.1	58.9	48.3	99.7	104.2	89.1	51.3
87.5°	0.0	1.5	16.6	18.1	25.7	19.6	18.1	25.7	48.3	39.3	16.6
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°	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8	1218.8
2.5°	1230.8	1220.3	1194.6	1155.3	1120.6	1102.5	1076.8	1054.1	1042.1	1040.5	1039.0
5°	1261.0	1232.3	1170.4	1099.4	1046.6	989.2	949.9	921.2	894.1	868.4	883.5
7.5°	1301.8	1256.5	1155.3	1063.2	948.4	874.4	804.9	764.2	740.0	717.4	714.3
10°	1365.2	1307.9	1144.7	978.6	847.2	738.5	667.5	608.6	575.4	536.1	551.2
12.5°	1451.3	1348.6	1105.5	901.6	732.5	617.7	516.5	421.4	368.5	327.7	329.2
15°	1537.4	1403.0	1069.2	808.0	628.3	477.2	329.2	264.3	249.2	240.1	243.1
17.5°	1622.0	1446.8	1013.4	712.8	508.9	303.6	240.1	226.5	219.0	209.9	209.9
20°	1724.7	1475.5	943.9	625.2	350.4	225.0	205.4	196.3	184.2	172.2	173.7
22.5°	1824.4	1499.7	863.8	513.5	235.6	194.8	172.2	160.1	149.5	137.4	137.4
25°	1924.0	1507.2	759.6	368.5	190.3	155.6	134.4	117.8	107.2	96.7	98.2
27.5°	1992.0	1460.4	661.5	235.6	152.5	117.8	93.6	80.0	71.0	60.4	60.4
30°	2031.3	1374.3	555.8	166.1	114.8	80.0	55.9	42.3	33.2	25.7	24.2
32.5°	2070.5	1304.8	436.5	126.9	75.5	42.3	21.1	7.6	0.0	0.0	0.0
35°	2149.0	1226.3	293.0	71.0	25.7	1.5	0.0	0.0	0.0	0.0	0.0
37.5°	2198.9	1117.6	134.4	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2324.2	1063.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2528.1	1025.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2751.6	1010.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3049.1	1051.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3363.3	1161.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3707.6	1265.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4008.1	1390.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4560.9	1686.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5553.1	2268.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6670.7	2700.3	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7079.9	2689.7	28.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7007.4	2541.7	28.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6631.4	2257.8	25.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5695.1	1865.1	25.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4341.9	1452.8	24.2	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2620.2	773.2	19.6	7.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1043.6	271.8	15.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	282.4	81.6	9.1	6.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	74.0	30.2	7.6	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	28.7	12.1	6.0	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0
87.5°	9.1	4.5	4.5	3.0	3.0	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)