

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: P481803

Luminaire Tested: **IFLD-M-SA4A-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481803
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

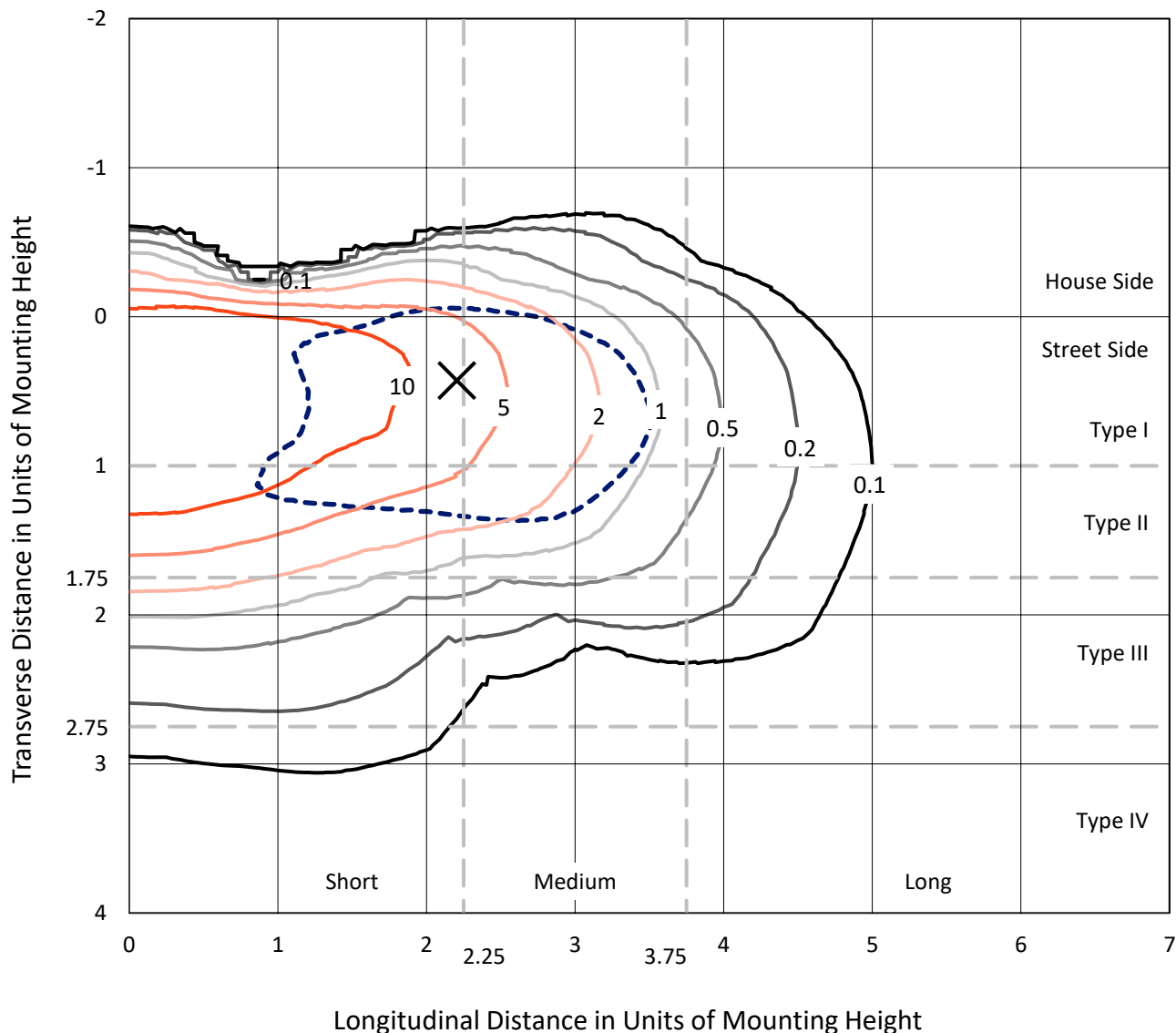
Lumens per Lamp: N/A
Luminaire Lumens: 9776.1 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

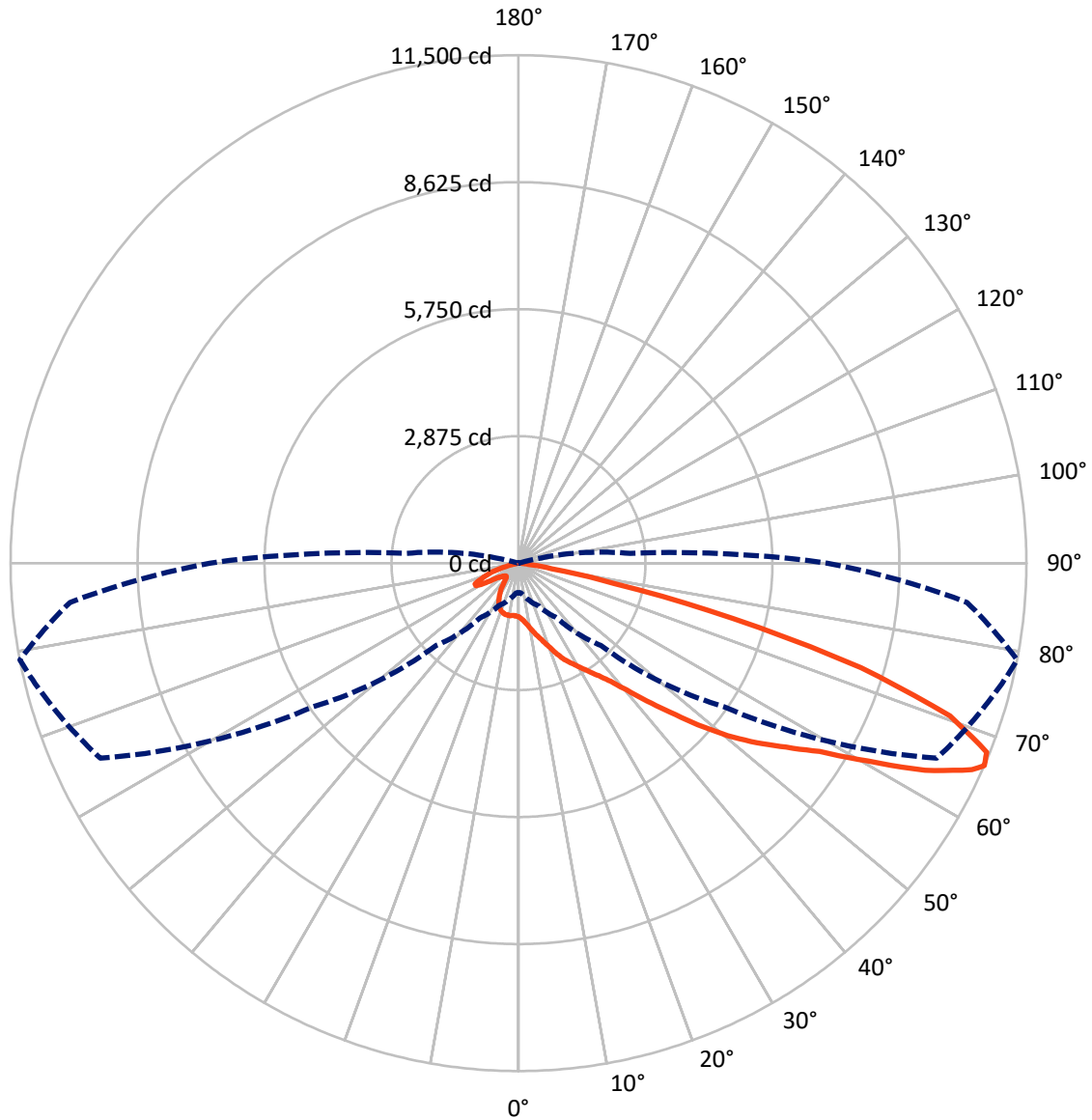
× Max cd
 - - - 1/2 Max cd



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	734.0	0.0	734.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9042.1	0.0	9042.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	9776.1	0.0	9776.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.2
10°-20°	316.6	3.2
20°-30°	525.9	5.4
30°-40°	903.3	9.2
40°-50°	1636.4	16.7
50°-60°	2586.7	26.5
60°-70°	2632.2	26.9
70°-80°	1003.8	10.3
80°-90°	56.3	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°	9776.1	100.0
0°-180°	9776.1	100.0



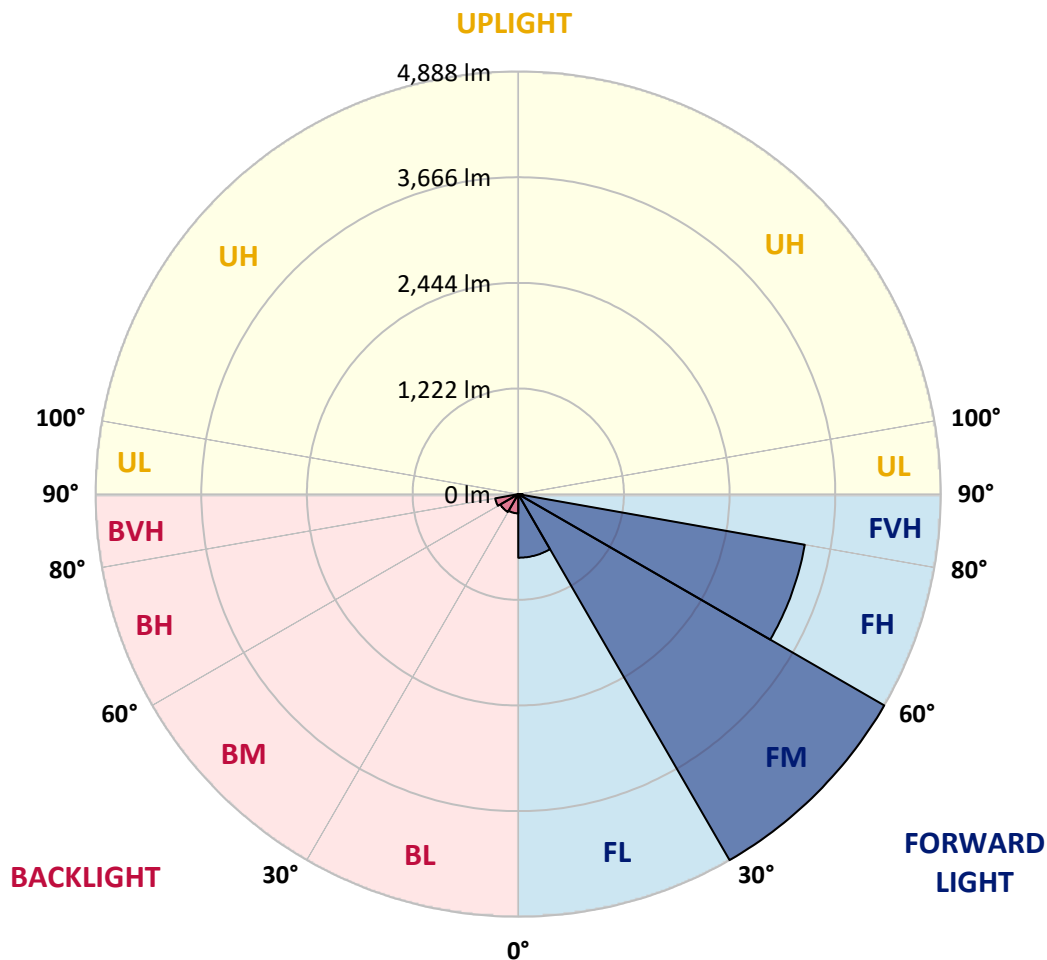
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.5	7.5			
FM (30°-60°)	4887.8	50.0			
FH (60°-80°)	3365.3	34.4			G2/5000
FVH (80°-90°)	53.4	0.5			G1/100
BL (0°-30°)	222.0	2.3	B1/500		
BM (30°-60°)	238.6	2.4	B1/1000		
BH (60°-80°)	270.6	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°	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3
2.5°	1377.5	1376.0	1370.0	1359.4	1345.9	1341.4	1321.8	1294.6	1279.6	1263.0	1255.5
5°	1472.5	1464.9	1483.0	1475.5	1478.5	1442.3	1418.2	1398.6	1341.4	1318.8	1282.6
7.5°	1493.6	1501.1	1499.6	1511.7	1523.7	1537.3	1520.7	1492.1	1434.8	1401.6	1362.5
10°	1493.6	1490.6	1502.6	1519.2	1553.9	1584.0	1629.2	1591.5	1547.8	1508.7	1437.8
12.5°	1466.5	1461.9	1474.0	1508.7	1570.4	1632.2	1682.0	1718.1	1656.4	1624.7	1532.8
15°	1383.6	1379.0	1428.8	1490.6	1572.0	1672.9	1776.9	1835.7	1793.5	1743.8	1641.3
17.5°	1281.1	1287.1	1339.9	1442.3	1572.0	1692.5	1825.2	1953.3	1947.2	1883.9	1776.9
20°	1246.4	1250.9	1303.7	1377.5	1525.2	1706.1	1900.5	2081.4	2117.5	2042.2	1902.0
22.5°	1312.7	1308.2	1312.7	1357.9	1493.6	1694.0	1950.3	2227.6	2292.4	2233.6	2066.3
25°	1538.8	1535.8	1498.1	1428.8	1475.5	1666.9	1975.9	2324.0	2473.2	2419.0	2198.9
27.5°	1870.4	1858.3	1799.5	1654.8	1559.9	1683.5	2018.1	2417.5	2631.5	2569.7	2318.0
30°	2226.1	2197.4	2120.6	1939.7	1778.4	1745.3	2042.2	2486.8	2807.8	2729.4	2422.0
32.5°	2471.7	2509.4	2485.3	2301.4	2054.2	1888.5	2081.4	2574.2	2970.6	2919.3	2599.8
35°	2851.5	2895.2	2794.3	2631.5	2382.8	2116.0	2164.3	2645.0	3220.8	3134.9	2765.6
37.5°	3330.8	3364.0	3291.6	2982.6	2720.4	2396.4	2334.6	2792.7	3436.3	3395.6	2978.1
40°	3571.9	3731.7	3629.2	3350.4	3068.6	2788.2	2616.4	2966.1	3811.6	3778.4	3272.0
42.5°	3905.0	3984.9	3932.2	3725.7	3431.8	3207.2	2964.6	3303.7	4266.7	4266.7	3669.9
45°	4257.7	4260.7	4257.7	4088.9	3828.2	3712.1	3434.8	3727.2	4756.6	4810.8	4146.2
47.5°	4547.1	4637.5	4630.0	4529.0	4327.0	4283.3	3905.0	4209.5	5371.5	5466.4	4610.4
50°	4696.3	4797.3	4827.4	4880.1	4871.1	4963.0	4419.0	4768.6	5902.0	6135.6	5207.2
52.5°	4655.6	4663.1	4848.5	5056.5	5388.1	5645.8	5038.4	5403.1	6522.9	6753.5	5668.4
55°	4322.5	4293.9	4675.2	4913.3	5599.1	6063.3	5896.0	6194.4	7006.7	7357.9	6144.6
57.5°	3591.5	3599.1	3951.7	4435.5	5442.3	6229.0	6812.3	7228.3	7684.9	8039.1	6813.8
60°	2479.3	2470.2	2865.1	3424.2	4521.4	5920.1	7339.8	8568.1	8592.3	9094.1	8015.0
62.5°	1394.1	1397.1	1697.0	2174.8	3163.5	4837.9	7314.2	9990.9	9888.4	10328.5	9380.5
65°	789.7	809.3	1015.8	1288.6	1894.5	3247.9	6290.8	10557.6	10887.6	11279.5	10209.4
66°	667.7	681.2	857.6	1064.0	1511.7	2634.5	5662.4	10447.6	11201.1	11499.5	10192.8
67.5°	517.0	535.0	682.7	844.0	1109.3	1823.6	4557.6	9900.5	11258.4	11433.2	9905.0
70°	354.2	366.2	479.3	640.5	758.1	932.9	2724.9	8185.3	10215.5	10363.2	8608.8
72.5°	248.7	254.7	336.1	485.3	583.3	533.5	1351.9	5823.6	7817.6	8105.4	6696.3
75°	179.4	185.4	230.6	348.2	455.2	349.7	619.4	3719.6	4794.2	5020.3	4033.1
77.5°	129.6	137.2	156.7	224.6	330.1	245.7	304.4	1942.7	2260.7	2221.5	1734.7
80°	78.4	85.9	116.1	144.7	241.1	173.3	167.3	810.8	801.8	761.1	545.6
82.5°	36.2	42.2	61.8	98.0	168.8	120.6	79.9	289.4	253.2	232.1	153.7
85°	10.6	13.6	36.2	73.9	85.9	58.8	48.2	99.5	104.0	88.9	51.2
87.5°	0.0	1.5	16.6	18.1	25.6	19.6	18.1	25.6	48.2	39.2	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°	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3
2.5°	1228.3	1217.8	1192.2	1153.0	1118.3	1100.2	1074.6	1052.0	1039.9	1038.4	1036.9
5°	1258.5	1229.8	1168.0	1097.2	1044.5	987.2	948.0	919.4	892.2	866.6	881.7
7.5°	1299.2	1253.9	1153.0	1061.0	946.5	872.6	803.3	762.6	738.5	715.9	712.9
10°	1362.5	1305.2	1142.4	976.6	845.5	737.0	666.2	607.4	574.2	535.0	550.1
12.5°	1448.4	1345.9	1103.2	899.8	731.0	616.4	515.4	420.5	367.7	327.1	328.6
15°	1534.3	1400.1	1067.1	806.3	627.0	476.3	328.6	263.8	248.7	239.6	242.7
17.5°	1618.7	1443.8	1011.3	711.4	507.9	302.9	239.6	226.1	218.5	209.5	209.5
20°	1721.2	1472.5	942.0	624.0	349.7	224.6	205.0	195.9	183.9	171.8	173.3
22.5°	1820.6	1496.6	862.1	512.4	235.1	194.4	171.8	159.8	149.2	137.2	137.2
25°	1920.1	1504.1	758.1	367.7	189.9	155.2	134.1	117.6	107.0	96.5	98.0
27.5°	1987.9	1457.4	660.1	235.1	152.2	117.6	93.4	79.9	70.8	60.3	60.3
30°	2027.1	1371.5	554.6	165.8	114.5	79.9	55.8	42.2	33.2	25.6	24.1
32.5°	2066.3	1302.2	435.6	126.6	75.4	42.2	21.1	7.5	0.0	0.0	0.0
35°	2144.7	1223.8	292.4	70.8	25.6	1.5	0.0	0.0	0.0	0.0	0.0
37.5°	2194.4	1115.3	134.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2319.5	1061.0	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2523.0	1023.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2746.0	1008.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3042.9	1049.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3356.4	1159.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3700.0	1263.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4000.0	1388.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4551.6	1683.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5541.8	2263.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6657.1	2694.8	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7065.5	2684.2	28.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6993.2	2536.5	28.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6617.9	2253.2	25.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5683.5	1861.3	25.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4333.1	1449.9	24.1	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2614.9	771.7	19.6	7.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1041.4	271.3	15.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	281.8	81.4	9.0	6.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	73.9	30.1	7.5	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	28.6	12.1	6.0	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0
87.5°	9.0	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)