

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: P481701

Luminaire Tested: **IFLD-S-SA2B-750-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481701
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

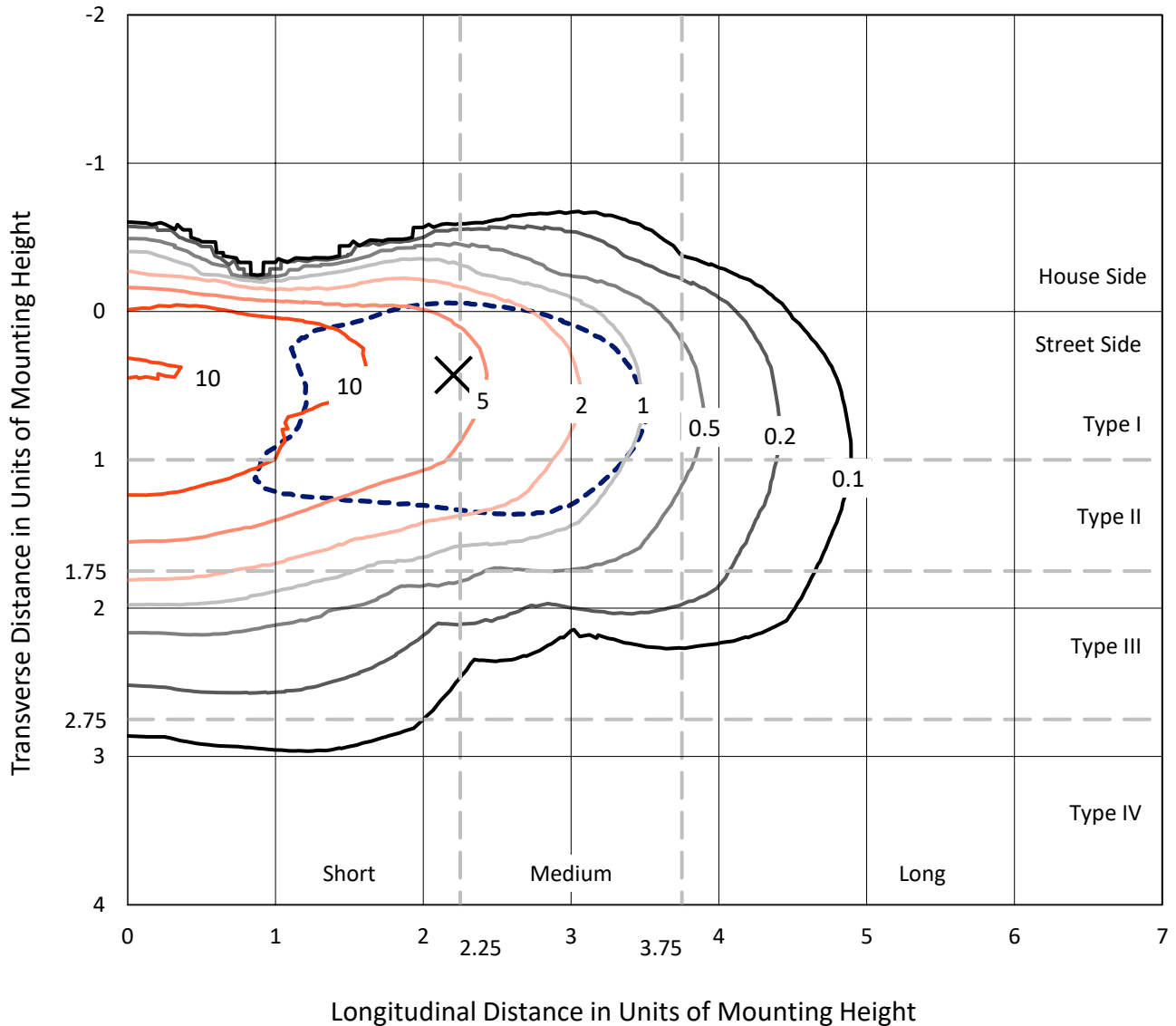
Lumens per Lamp: N/A
Luminaire Lumens: 8410.7 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

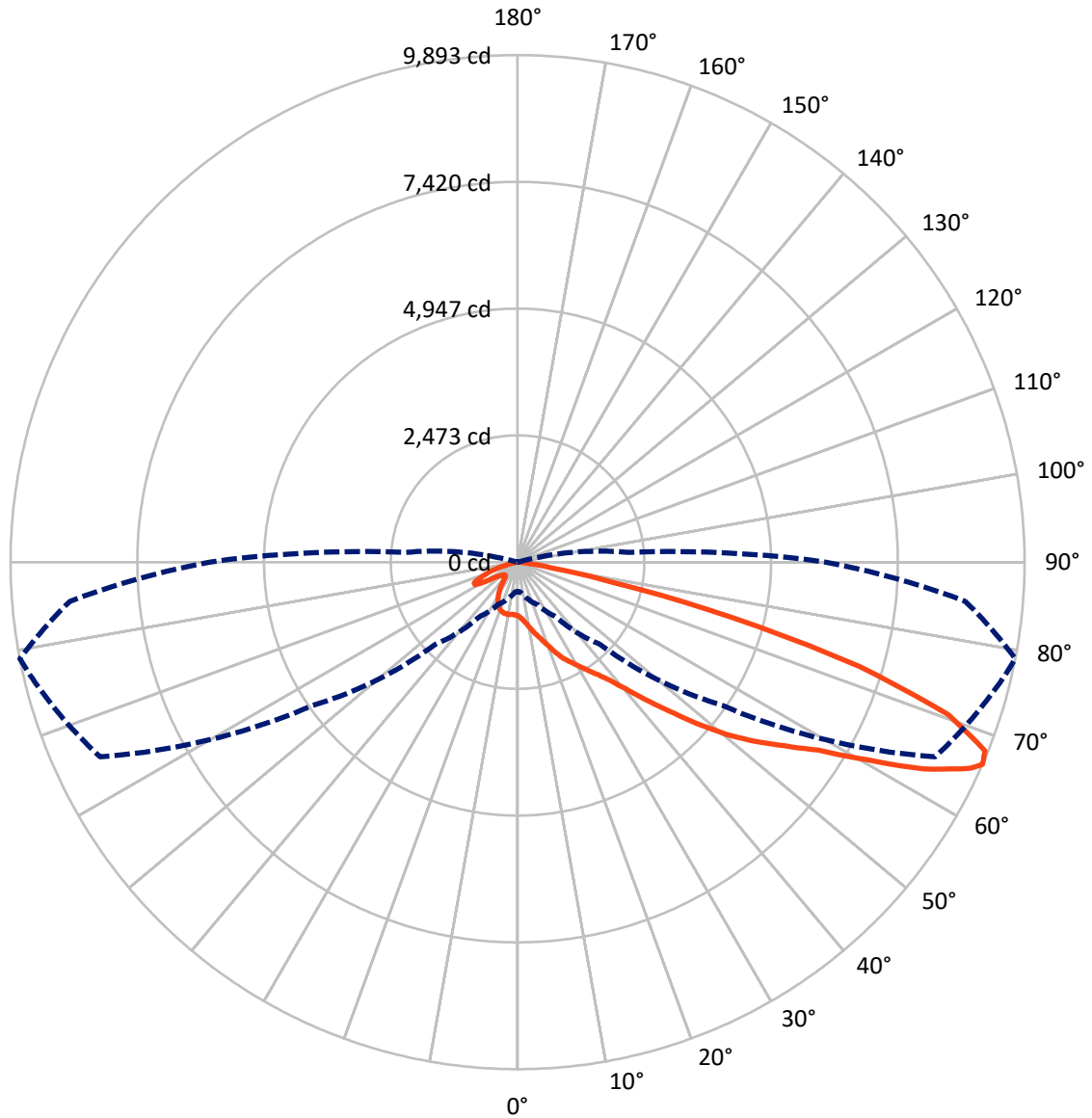
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 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	631.5	0.0	631.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7779.1	0.0	7779.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	8410.7	0.0	8410.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.2
10°-20°	272.3	3.2
20°-30°	452.4	5.4
30°-40°	777.1	9.2
40°-50°	1407.9	16.7
50°-60°	2225.4	26.5
60°-70°	2264.5	26.9
70°-80°	863.6	10.3
80°-90°	48.4	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°	8410.7	100.0
0°-180°	8410.7	100.0

Coefficient of Utilization



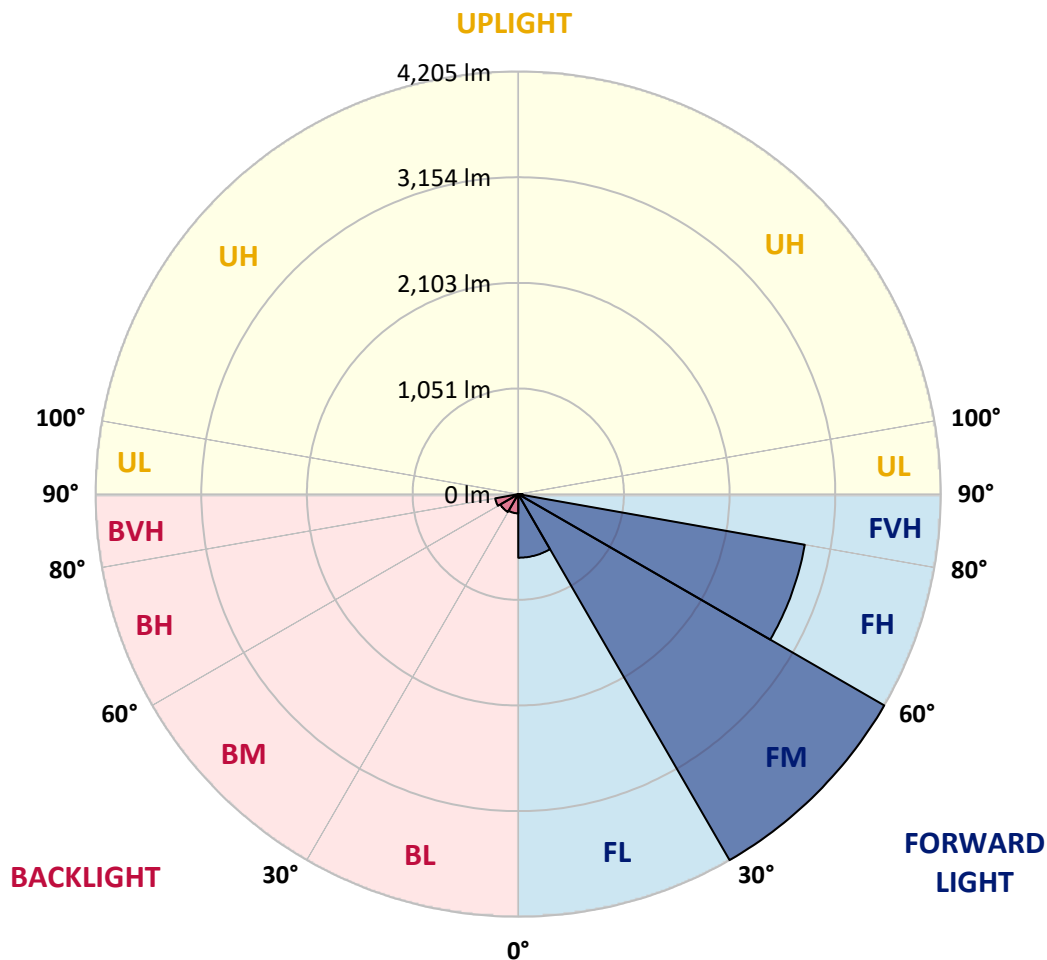
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.8	7.5			
FM (30°-60°)	4205.1	50.0			
FH (60°-80°)	2895.3	34.4			G2/5000
FVH (80°-90°)	45.9	0.5			G1/100
BL (0°-30°)	191.0	2.3	B1/500		
BM (30°-60°)	205.3	2.4	B0/220		
BH (60°-80°)	232.8	2.8	B1/500		G1/500
BVH (80°-90°)	2.5	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°	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4
2.5°	1185.1	1183.8	1178.6	1169.6	1157.9	1154.0	1137.2	1113.8	1100.8	1086.6	1080.1
5°	1266.8	1260.3	1275.9	1269.4	1272.0	1240.9	1220.1	1203.3	1154.0	1134.6	1103.4
7.5°	1285.0	1291.5	1290.2	1300.5	1310.9	1322.6	1308.3	1283.7	1234.4	1205.9	1172.2
10°	1285.0	1282.4	1292.7	1307.0	1336.8	1362.8	1401.7	1369.3	1331.6	1297.9	1237.0
12.5°	1261.6	1257.7	1268.1	1297.9	1351.1	1404.3	1447.0	1478.2	1425.0	1397.8	1318.7
15°	1190.3	1186.4	1229.2	1282.4	1352.4	1439.3	1528.7	1579.3	1543.0	1500.2	1412.0
17.5°	1102.1	1107.3	1152.7	1240.9	1352.4	1456.1	1570.2	1680.4	1675.3	1620.8	1528.7
20°	1072.3	1076.2	1121.6	1185.1	1312.2	1467.8	1635.1	1790.7	1821.8	1756.9	1636.4
22.5°	1129.4	1125.5	1129.4	1168.3	1285.0	1457.4	1677.9	1916.4	1972.2	1921.6	1777.7
25°	1323.9	1321.3	1288.9	1229.2	1269.4	1434.1	1699.9	1999.4	2127.8	2081.1	1891.8
27.5°	1609.1	1598.8	1548.2	1423.7	1342.0	1448.3	1736.2	2079.8	2263.9	2210.8	1994.2
30°	1915.1	1890.5	1824.4	1668.8	1530.0	1501.5	1756.9	2139.5	2415.6	2348.2	2083.7
32.5°	2126.5	2158.9	2138.2	1980.0	1767.3	1624.7	1790.7	2214.7	2555.7	2511.6	2236.7
35°	2453.2	2490.8	2404.0	2263.9	2050.0	1820.5	1862.0	2275.6	2770.9	2697.0	2379.3
37.5°	2865.6	2894.1	2831.9	2566.0	2340.4	2061.7	2008.5	2402.7	2956.3	2921.3	2562.2
40°	3073.0	3210.5	3122.3	2882.4	2640.0	2398.8	2251.0	2551.8	3279.2	3250.7	2815.0
42.5°	3359.6	3428.3	3382.9	3205.3	2952.4	2759.2	2550.5	2842.2	3670.8	3670.8	3157.3
45°	3663.0	3665.6	3663.0	3517.8	3293.5	3193.6	2955.0	3206.6	4092.2	4138.9	3567.1
47.5°	3912.0	3989.8	3983.3	3896.4	3722.7	3685.0	3359.6	3621.5	4621.2	4702.9	3966.4
50°	4040.3	4127.2	4153.1	4198.5	4190.7	4269.8	3801.7	4102.6	5077.6	5278.6	4479.9
52.5°	4005.3	4011.8	4171.3	4350.2	4635.5	4857.2	4334.7	4648.5	5611.9	5810.2	4876.7
55°	3718.8	3694.1	4022.2	4227.0	4817.0	5216.4	5072.5	5329.2	6028.1	6330.2	5286.4
57.5°	3089.9	3096.4	3399.8	3816.0	4682.2	5359.0	5860.8	6218.7	6611.6	6916.3	5862.1
60°	2133.0	2125.2	2464.9	2946.0	3889.9	5093.2	6314.6	7371.4	7392.1	7823.9	6895.5
62.5°	1199.4	1202.0	1460.0	1871.1	2721.6	4162.2	6292.6	8595.4	8507.2	8885.9	8070.3
65°	679.4	696.3	873.9	1108.6	1629.9	2794.3	5412.2	9083.0	9366.9	9704.0	8783.4
66°	574.4	586.1	737.8	915.4	1300.5	2266.5	4871.5	8988.3	9636.6	9893.4	8769.2
67.5°	444.7	460.3	587.4	726.1	954.3	1568.9	3921.0	8517.6	9685.9	9836.3	8521.5
70°	304.7	315.1	412.3	551.1	652.2	802.6	2344.3	7042.0	8788.6	8915.7	7406.4
72.5°	213.9	219.1	289.2	417.5	501.8	459.0	1163.1	5010.2	6725.7	6973.3	5761.0
75°	154.3	159.5	198.4	299.5	391.6	300.8	532.9	3200.1	4124.6	4319.1	3469.8
77.5°	111.5	118.0	134.9	193.2	284.0	211.4	261.9	1671.4	1945.0	1911.2	1492.4
80°	67.4	73.9	99.8	124.5	207.5	149.1	143.9	697.6	689.8	654.8	469.4
82.5°	31.1	36.3	53.2	84.3	145.2	103.7	68.7	249.0	217.8	199.7	132.3
85°	9.1	11.7	31.1	63.5	73.9	50.6	41.5	85.6	89.5	76.5	44.1
87.5°	0.0	1.3	14.3	15.6	22.0	16.9	15.6	22.0	41.5	33.7	14.3
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°	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4	1046.4
2.5°	1056.8	1047.7	1025.6	991.9	962.1	946.5	924.5	905.1	894.7	893.4	892.1
5°	1082.7	1058.1	1004.9	944.0	898.6	849.3	815.6	790.9	767.6	745.6	758.5
7.5°	1117.7	1078.8	991.9	912.8	814.3	750.8	691.1	656.1	635.4	615.9	613.3
10°	1172.2	1122.9	982.9	840.2	727.4	634.1	573.1	522.5	494.0	460.3	473.3
12.5°	1246.1	1157.9	949.1	774.1	628.9	530.3	443.5	361.8	316.4	281.4	282.7
15°	1320.0	1204.6	918.0	693.7	539.4	409.7	282.7	226.9	213.9	206.2	208.8
17.5°	1392.6	1242.2	870.0	612.0	437.0	260.6	206.2	194.5	188.0	180.2	180.2
20°	1480.8	1266.8	810.4	536.8	300.8	193.2	176.3	168.6	158.2	147.8	149.1
22.5°	1566.3	1287.6	741.7	440.9	202.3	167.3	147.8	137.4	128.4	118.0	118.0
25°	1651.9	1294.0	652.2	316.4	163.4	133.6	115.4	101.1	92.1	83.0	84.3
27.5°	1710.3	1253.8	567.9	202.3	131.0	101.1	80.4	68.7	60.9	51.9	51.9
30°	1744.0	1179.9	477.2	142.6	98.5	68.7	48.0	36.3	28.5	22.0	20.7
32.5°	1777.7	1120.3	374.7	108.9	64.8	36.3	18.2	6.5	0.0	0.0	0.0
35°	1845.1	1052.9	251.5	60.9	22.0	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1887.9	959.5	115.4	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1995.5	912.8	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2170.6	880.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2362.5	867.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2617.9	902.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2887.6	997.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3183.2	1086.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3441.3	1194.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3915.8	1448.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4767.7	1947.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5727.3	2318.4	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6078.6	2309.3	24.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6016.4	2182.2	24.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5693.5	1938.5	22.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4889.6	1601.3	22.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3727.8	1247.4	20.7	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2249.7	663.9	16.9	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	896.0	233.4	13.0	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	242.5	70.0	7.8	5.2	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	63.5	25.9	6.5	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	24.6	10.4	5.2	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	3.9	2.6	2.6	1.3	1.3	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)