

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: P481703

Luminaire Tested: **IFLD-S-SA2D-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481703
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

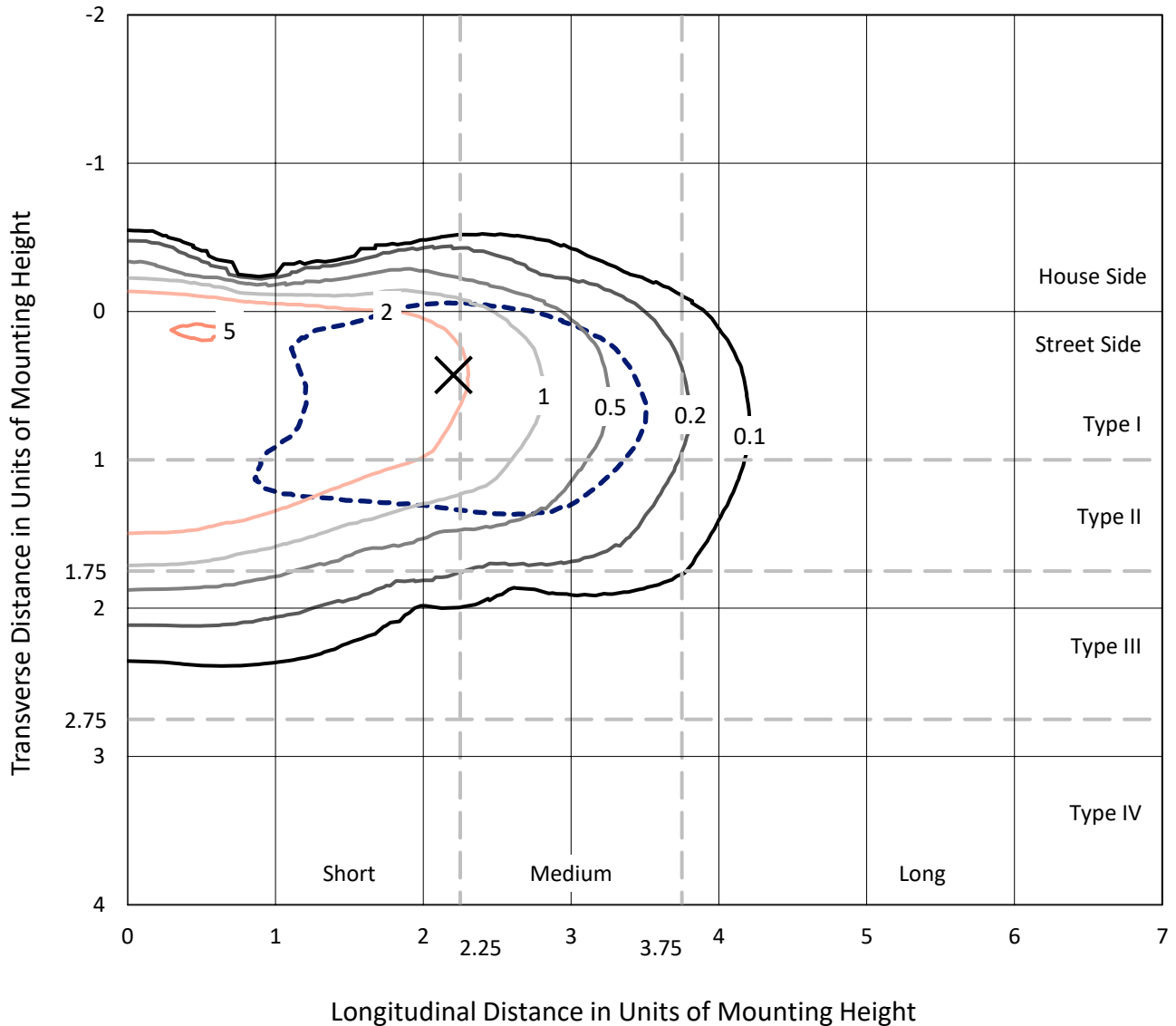
Lumens per Lamp: N/A
Luminaire Lumens: 11520.5 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

REPORT NUMBER: P481703
 CATALOG NUMBER: IFLD-S-SA2D-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

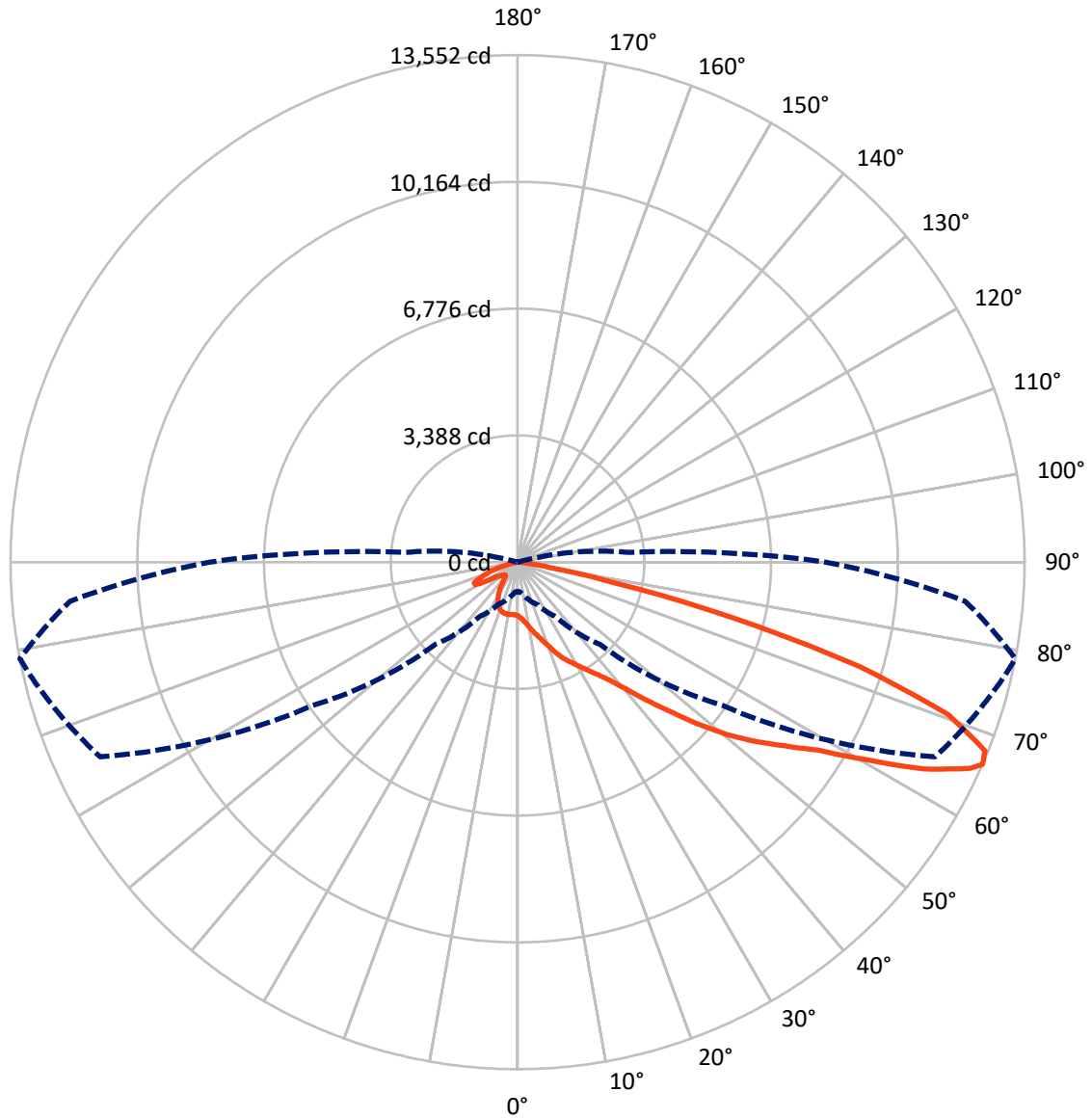
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481703
CATALOG NUMBER: IFLD-S-SA2D-750-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481703
 CATALOG NUMBER: IFLD-S-SA2D-750-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.0	0.0	865.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10655.5	0.0	10655.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	11520.5	0.0	11520.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.2
10°-20°	373.1	3.2
20°-30°	619.7	5.4
30°-40°	1064.5	9.2
40°-50°	1928.4	16.7
50°-60°	3048.3	26.5
60°-70°	3101.8	26.9
70°-80°	1182.9	10.3
80°-90°	66.3	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°	11520.5	100.0
0°-180°	11520.5	100.0

Coefficient of Utilization

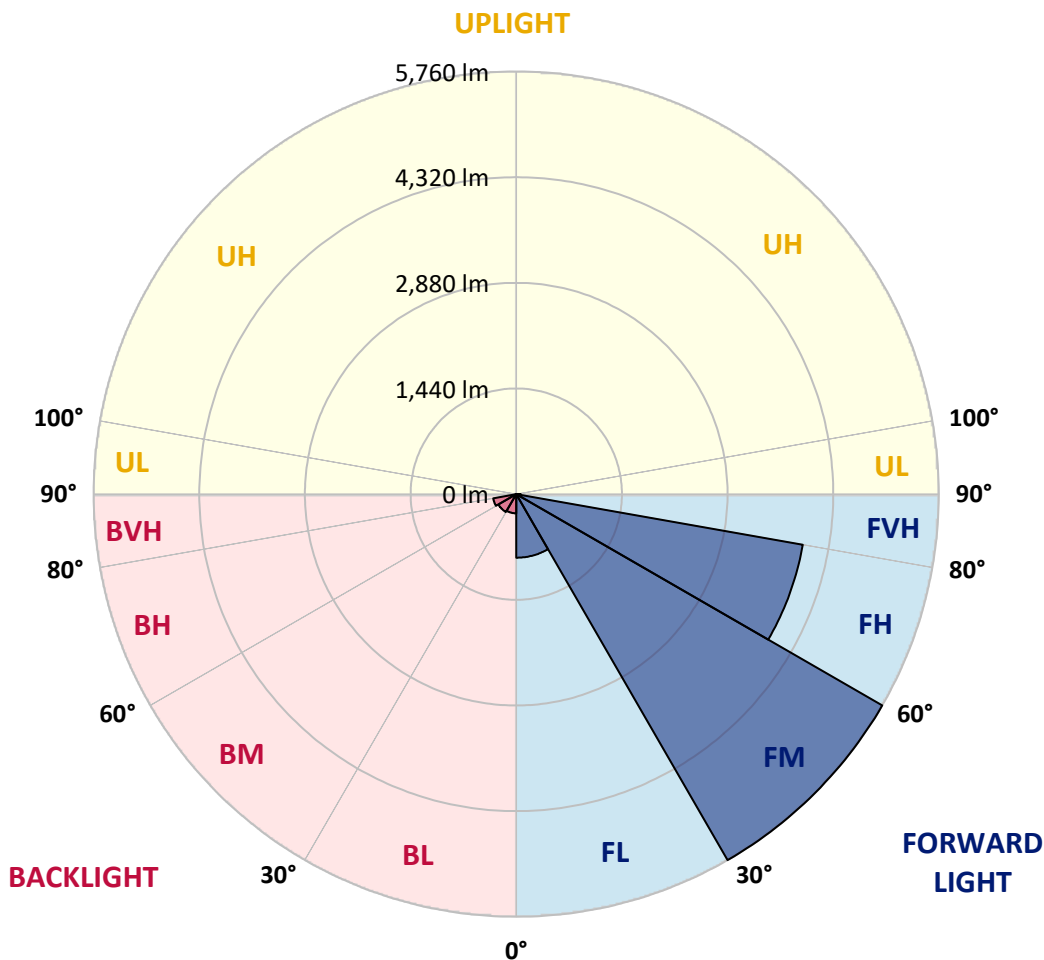


REPORT NUMBER: P481703
 CATALOG NUMBER: IFLD-S-SA2D-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.7	7.5			
FM (30°-60°)	5760.0	50.0			
FH (60°-80°)	3965.8	34.4			G2/5000
FVH (80°-90°)	62.9	0.5			G1/100
BL (0°-30°)	261.6	2.3	B1/500		
BM (30°-60°)	281.2	2.4	B1/1000		
BH (60°-80°)	318.9	2.8	B1/500		G1/500
BVH (80°-90°)	3.4	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





REPORT NUMBER: P481703

CATALOG NUMBER: IFLD-S-SA2D-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3
2.5°	1623.3	1621.6	1614.5	1602.0	1586.0	1580.7	1557.6	1525.6	1507.9	1488.4	1479.5
5°	1735.2	1726.3	1747.7	1738.8	1742.3	1699.7	1671.3	1648.2	1580.7	1554.1	1511.4
7.5°	1760.1	1769.0	1767.2	1781.4	1795.6	1811.6	1792.1	1758.3	1690.8	1651.7	1605.6
10°	1760.1	1756.5	1770.7	1790.3	1831.1	1866.7	1919.9	1875.5	1824.0	1777.9	1694.4
12.5°	1728.1	1722.8	1737.0	1777.9	1850.7	1923.5	1982.1	2024.7	1951.9	1914.6	1806.3
15°	1630.4	1625.1	1683.7	1756.5	1852.4	1971.4	2094.0	2163.3	2113.5	2054.9	1934.1
17.5°	1509.7	1516.8	1578.9	1699.7	1852.4	1994.5	2150.8	2301.8	2294.7	2220.1	2094.0
20°	1468.8	1474.1	1536.3	1623.3	1797.4	2010.5	2239.6	2452.8	2495.4	2406.6	2241.4
22.5°	1547.0	1541.6	1547.0	1600.2	1760.1	1996.3	2298.2	2625.0	2701.4	2632.1	2435.0
25°	1813.4	1809.8	1765.4	1683.7	1738.8	1964.3	2328.4	2738.7	2914.5	2850.6	2591.3
27.5°	2204.1	2189.9	2120.6	1950.1	1838.2	1983.9	2378.2	2848.8	3101.0	3028.2	2731.6
30°	2623.3	2589.5	2498.9	2285.8	2095.8	2056.7	2406.6	2930.5	3308.8	3216.5	2854.2
32.5°	2912.8	2957.2	2928.7	2712.1	2420.8	2225.4	2452.8	3033.5	3500.6	3440.3	3063.7
35°	3360.3	3411.8	3292.8	3101.0	2808.0	2493.6	2550.4	3117.0	3795.5	3694.2	3259.1
37.5°	3925.1	3964.2	3878.9	3514.9	3205.8	2824.0	2751.1	3291.1	4049.5	4001.5	3509.5
40°	4209.3	4397.6	4276.8	3948.2	3616.1	3285.7	3083.3	3495.3	4491.7	4452.6	3855.9
42.5°	4601.8	4695.9	4633.8	4390.5	4044.1	3779.5	3493.5	3893.2	5028.1	5028.1	4324.7
45°	5017.4	5021.0	5017.4	4818.5	4511.2	4374.5	4047.7	4392.2	5605.3	5669.2	4886.0
47.5°	5358.4	5465.0	5456.1	5337.1	5099.1	5047.6	4601.8	4960.6	6329.9	6441.8	5433.0
50°	5534.3	5653.2	5688.8	5750.9	5740.3	5848.6	5207.5	5619.5	6955.1	7230.4	6136.3
52.5°	5486.3	5495.2	5713.6	5958.7	6349.5	6653.2	5937.4	6367.2	7686.9	7958.6	6679.8
55°	5093.8	5060.0	5509.4	5790.0	6598.1	7145.2	6948.0	7299.7	8257.0	8670.8	7241.1
57.5°	4232.4	4241.3	4656.9	5227.0	6413.4	7340.5	8027.9	8518.1	9056.2	9473.6	8029.6
60°	2921.6	2911.0	3376.3	4035.2	5328.2	6976.4	8649.5	10097.0	10125.4	10716.8	9445.2
62.5°	1642.9	1646.4	1999.9	2562.9	3728.0	5701.2	8619.3	11773.6	11652.8	12171.4	11054.3
65°	930.7	953.8	1197.1	1518.5	2232.5	3827.4	7413.3	12441.4	12830.4	13292.1	12031.1
66°	786.8	802.8	1010.6	1253.9	1781.4	3104.6	6672.7	12311.8	13199.8	13551.5	12011.6
67.5°	609.2	630.5	804.6	994.6	1307.2	2149.1	5370.9	11667.0	13267.3	13473.3	11672.4
70°	417.4	431.6	564.8	754.8	893.4	1099.4	3211.1	9645.9	12038.2	12212.3	10144.9
72.5°	293.1	300.2	396.1	571.9	687.3	628.7	1593.1	6862.8	9212.5	9551.7	7891.1
75°	211.4	218.5	271.7	410.3	536.4	412.0	730.0	4383.4	5649.7	5916.1	4752.8
77.5°	152.7	161.6	184.7	264.6	389.0	289.5	358.8	2289.4	2664.1	2617.9	2044.3
80°	92.4	101.2	136.8	170.5	284.2	204.2	197.1	955.5	944.9	896.9	642.9
82.5°	42.6	49.7	72.8	115.4	198.9	142.1	94.1	341.0	298.4	273.5	181.2
85°	12.4	16.0	42.6	87.0	101.2	69.3	56.8	117.2	122.5	104.8	60.4
87.5°	0.0	1.8	19.5	21.3	30.2	23.1	21.3	30.2	56.8	46.2	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481703
 CATALOG NUMBER: IFLD-S-SA2D-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3	1433.3
2.5°	1447.5	1435.1	1404.9	1358.7	1317.8	1296.5	1266.3	1239.7	1225.5	1223.7	1221.9
5°	1483.0	1449.3	1376.5	1293.0	1230.8	1163.3	1117.2	1083.4	1051.4	1021.2	1039.0
7.5°	1531.0	1477.7	1358.7	1250.4	1115.4	1028.3	946.6	898.7	870.3	843.6	840.1
10°	1605.6	1538.1	1346.3	1150.9	996.4	868.5	785.0	715.8	676.7	630.5	648.3
12.5°	1706.8	1586.0	1300.1	1060.3	861.4	726.4	607.4	495.5	433.4	385.4	387.2
15°	1808.0	1650.0	1257.5	950.2	738.8	561.2	387.2	310.8	293.1	282.4	285.9
17.5°	1907.5	1701.5	1191.7	838.3	598.5	357.0	282.4	266.4	257.5	246.9	246.9
20°	2028.3	1735.2	1110.0	735.3	412.0	264.6	241.5	230.9	216.7	202.5	204.2
22.5°	2145.5	1763.6	1015.9	603.9	277.1	229.1	202.5	188.3	175.8	161.6	161.6
25°	2262.7	1772.5	893.4	433.4	223.8	182.9	158.1	138.5	126.1	113.7	115.4
27.5°	2342.6	1717.5	777.9	277.1	179.4	138.5	110.1	94.1	83.5	71.0	71.0
30°	2388.8	1616.2	653.6	195.4	135.0	94.1	65.7	49.7	39.1	30.2	28.4
32.5°	2435.0	1534.5	513.3	149.2	88.8	49.7	24.9	8.9	0.0	0.0	0.0
35°	2527.4	1442.2	344.6	83.5	30.2	1.8	0.0	0.0	0.0	0.0	0.0
37.5°	2586.0	1314.3	158.1	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2733.4	1250.4	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2973.1	1206.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3236.0	1188.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3585.9	1236.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3955.3	1365.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4360.3	1488.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4713.7	1635.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5363.7	1983.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6530.6	2667.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7844.9	3175.6	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8326.2	3163.2	33.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8241.0	2989.1	33.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7798.7	2655.2	30.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6697.6	2193.5	30.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5106.2	1708.6	28.4	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	3081.5	909.4	23.1	8.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1227.3	319.7	17.8	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	332.1	95.9	10.7	7.1	5.3	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	87.0	35.5	8.9	7.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	33.7	14.2	7.1	5.3	5.3	3.6	1.8	0.0	0.0	0.0	0.0
87.5°	10.7	5.3	5.3	3.6	3.6	1.8	1.8	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)