

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: P481708

Luminaire Tested: **IFLD-S-SA3D-750-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481708  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-750-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

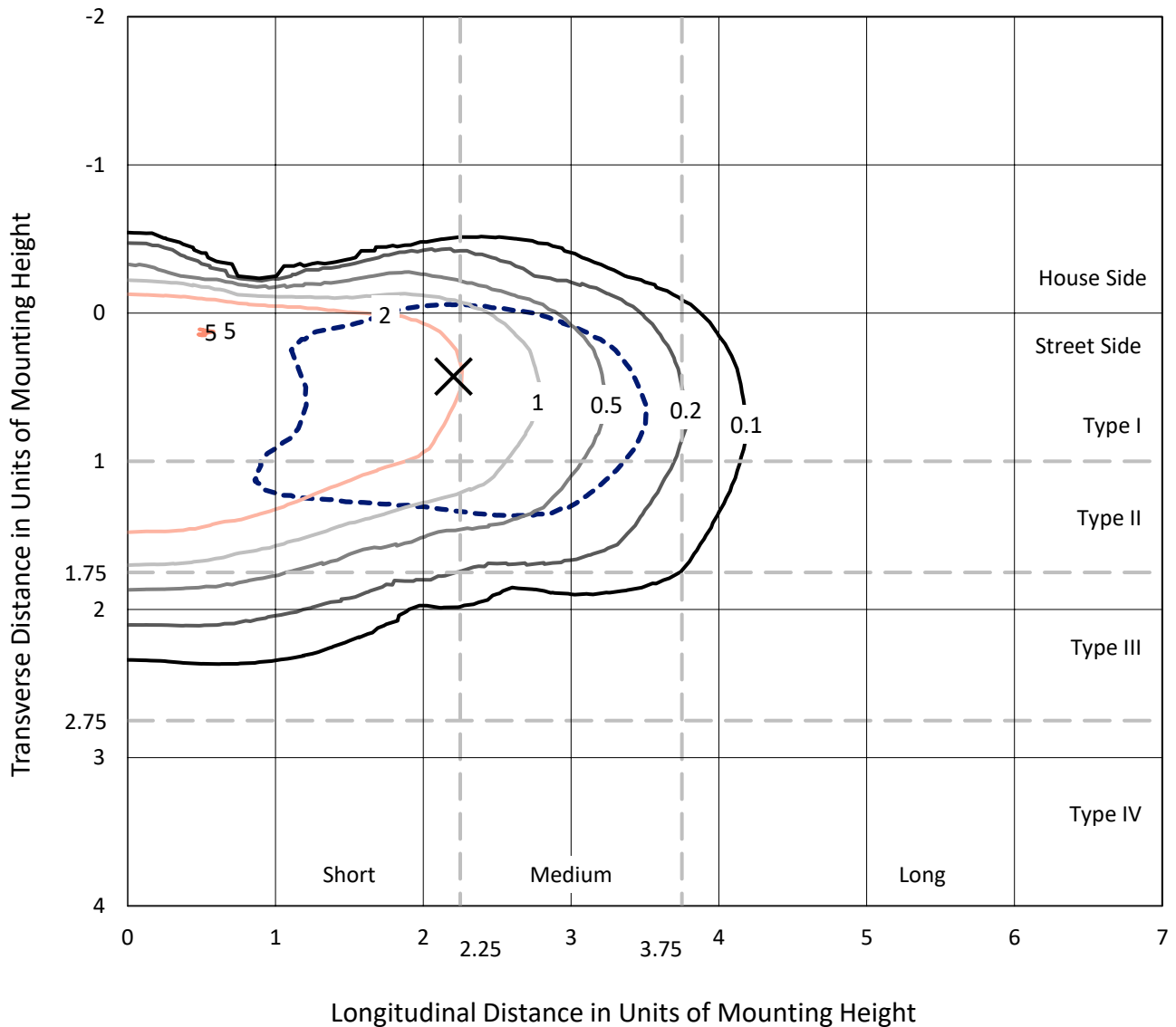
Lumens per Lamp: N/A  
Luminaire Lumens: 17168.6 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1  
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: P481708  
 CATALOG NUMBER: IFLD-S-SA3D-750-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

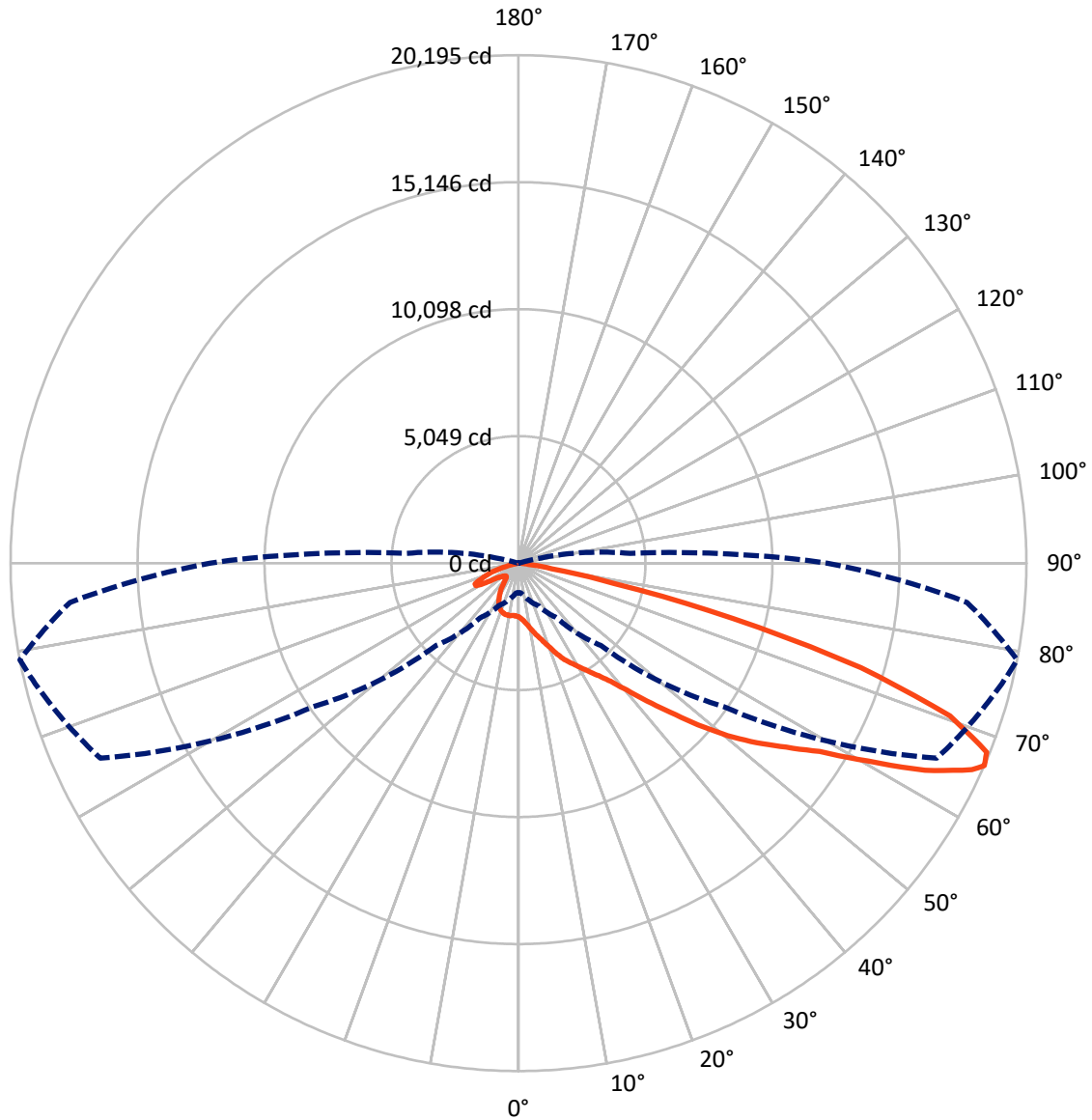
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P481708  
CATALOG NUMBER: IFLD-S-SA3D-750-U-T2-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-S-SA3D-750-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1289.1	0.0	1289.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15879.5	0.0	15879.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	17168.6	0.0	17168.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.0	1.2
10°-20°	555.9	3.2
20°-30°	923.6	5.4
30°-40°	1586.3	9.2
40°-50°	2873.8	16.7
50°-60°	4542.7	26.5
60°-70°	4622.6	26.9
70°-80°	1762.8	10.3
80°-90°	98.8	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°	17168.6	100.0
0°-180°	17168.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P481708

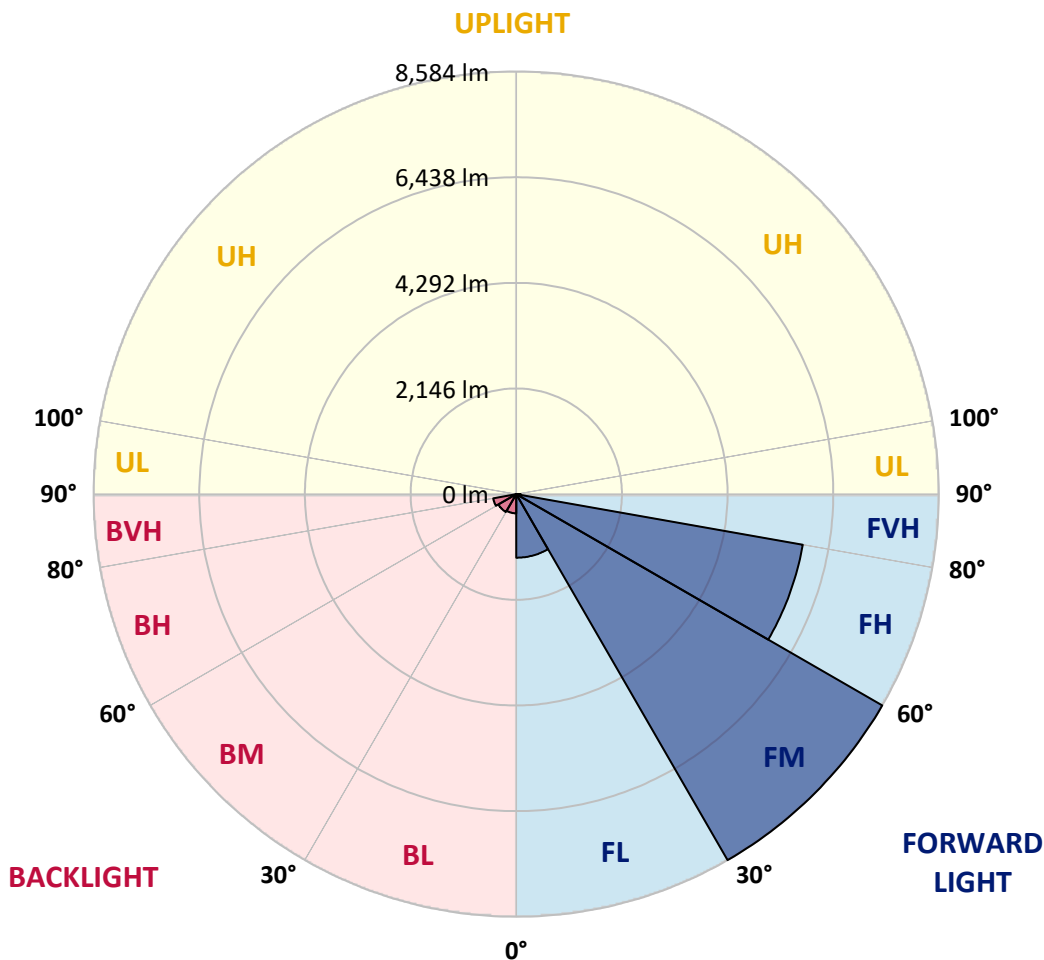
CATALOG NUMBER: IFLD-S-SA3D-750-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.7	7.5			
FM (30°-60°)	8583.9	50.0			
FH (60°-80°)	5910.2	34.4			G3/7500
FVH (80°-90°)	93.8	0.5			G1/100
BL (0°-30°)	389.9	2.3	B1/500		
BM (30°-60°)	419.0	2.4	B1/1000		
BH (60°-80°)	475.2	2.8	B1/500		G1/500
BVH (80°-90°)	5.0	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-G3**

Type II Short





REPORT NUMBER: P481708

CATALOG NUMBER: IFLD-S-SA3D-750-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2419.2	2416.5	2406.0	2387.4	2363.6	2355.7	2321.3	2273.6	2247.1	2218.0	2204.8
5°	2585.9	2572.7	2604.5	2591.2	2596.5	2533.0	2490.7	2456.2	2355.7	2316.0	2252.4
7.5°	2623.0	2636.2	2633.6	2654.8	2675.9	2699.8	2670.6	2620.4	2519.8	2461.5	2392.7
10°	2623.0	2617.7	2638.9	2668.0	2728.9	2781.8	2861.2	2795.0	2718.3	2649.5	2525.1
12.5°	2575.4	2567.4	2588.6	2649.5	2758.0	2866.5	2953.9	3017.4	2908.9	2853.3	2691.8
15°	2429.8	2421.8	2509.2	2617.7	2760.6	2938.0	3120.6	3223.8	3149.7	3062.4	2882.4
17.5°	2249.8	2260.4	2353.0	2533.0	2760.6	2972.4	3205.3	3430.3	3419.7	3308.5	3120.6
20°	2188.9	2196.9	2289.5	2419.2	2678.6	2996.2	3337.6	3655.3	3718.8	3586.4	3340.3
22.5°	2305.4	2297.4	2305.4	2384.8	2623.0	2975.0	3425.0	3912.0	4025.8	3922.6	3628.8
25°	2702.4	2697.1	2630.9	2509.2	2591.2	2927.4	3470.0	4081.4	4343.4	4248.1	3861.7
27.5°	3284.7	3263.5	3160.3	2906.2	2739.5	2956.5	3544.1	4245.5	4621.3	4512.8	4070.8
30°	3909.4	3859.1	3724.1	3406.5	3123.2	3065.0	3586.4	4367.3	4931.0	4793.4	4253.4
32.5°	4340.8	4407.0	4364.6	4041.7	3607.6	3316.5	3655.3	4520.8	5216.9	5126.9	4565.8
35°	5007.8	5084.5	4907.2	4621.3	4184.6	3716.1	3800.8	4645.2	5656.3	5505.4	4856.9
37.5°	5849.5	5907.7	5780.7	5238.1	4777.5	4208.4	4099.9	4904.6	6034.7	5963.3	5230.1
40°	6273.0	6553.5	6373.5	5883.9	5388.9	4896.6	4594.9	5208.9	6693.8	6635.6	5746.2
42.5°	6857.9	6998.2	6905.6	6542.9	6026.8	5632.4	5206.3	5801.8	7493.1	7493.1	6445.0
45°	7477.3	7482.6	7477.3	7180.8	6722.9	6519.1	6032.1	6545.6	8353.4	8448.6	7281.4
47.5°	7985.5	8144.3	8131.0	7953.7	7599.0	7522.3	6857.9	7392.6	9433.3	9600.0	8096.6
50°	8247.5	8424.8	8477.8	8570.4	8554.5	8716.0	7760.5	8374.5	10364.9	10775.2	9144.8
52.5°	8176.0	8189.3	8514.8	8880.1	9462.4	9915.0	8848.3	9488.8	11455.4	11860.4	9954.7
55°	7591.1	7540.8	8210.4	8628.6	9832.9	10648.2	10354.4	10878.4	12305.1	12921.8	10791.1
57.5°	6307.4	6320.6	6940.0	7789.6	9557.7	10939.3	11963.6	12694.1	13496.1	14118.1	11966.3
60°	4354.0	4338.1	5031.6	6013.6	7940.5	10396.7	12890.0	15047.2	15089.5	15970.9	14075.8
62.5°	2448.3	2453.6	2980.3	3819.4	5555.7	8496.3	12845.0	17545.8	17365.8	18138.7	16473.8
65°	1386.9	1421.3	1784.0	2263.0	3327.1	5703.9	11047.8	18541.0	19120.6	19808.8	17929.6
66°	1172.5	1196.4	1506.0	1868.7	2654.8	4626.6	9944.1	18347.8	19671.2	20195.2	17900.4
67.5°	907.9	939.6	1199.0	1482.2	1948.1	3202.7	8004.0	17387.0	19771.7	20078.8	17394.9
70°	622.0	643.2	841.7	1124.9	1331.4	1638.4	4785.5	14374.9	17940.1	18199.5	15118.6
72.5°	436.7	447.3	590.2	852.3	1024.3	937.0	2374.2	10227.3	13729.1	14234.6	11759.8
75°	315.0	325.6	405.0	611.4	799.3	614.1	1087.8	6532.4	8419.5	8816.6	7082.9
77.5°	227.6	240.9	275.3	394.4	579.7	431.4	534.7	3411.8	3970.2	3901.4	3046.5
80°	137.6	150.9	203.8	254.1	423.5	304.4	293.8	1424.0	1408.1	1336.6	958.1
82.5°	63.5	74.1	108.5	172.0	296.4	211.7	140.3	508.2	444.7	407.6	270.0
85°	18.5	23.8	63.5	129.7	150.9	103.2	84.7	174.7	182.6	156.2	90.0
87.5°	0.0	2.6	29.1	31.8	45.0	34.4	31.8	45.0	84.7	68.8	29.1
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°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2157.2	2138.6	2093.6	2024.8	1963.9	1932.2	1887.2	1847.5	1826.3	1823.7	1821.0
5°	2210.1	2159.8	2051.3	1926.9	1834.2	1733.7	1664.8	1614.6	1566.9	1521.9	1548.4
7.5°	2281.6	2202.2	2024.8	1863.4	1662.2	1532.5	1410.8	1339.3	1296.9	1257.2	1251.9
10°	2392.7	2292.1	2006.3	1715.1	1484.9	1294.3	1169.9	1066.7	1008.4	939.6	966.1
12.5°	2543.6	2363.6	1937.5	1580.2	1283.7	1082.5	905.2	738.5	645.8	574.4	577.0
15°	2694.5	2458.9	1873.9	1416.0	1101.1	836.4	577.0	463.2	436.7	420.8	426.1
17.5°	2842.7	2535.7	1776.0	1249.3	892.0	532.0	420.8	397.0	383.8	367.9	367.9
20°	3022.7	2585.9	1654.3	1095.8	614.1	394.4	360.0	344.1	322.9	301.7	304.4
22.5°	3197.4	2628.3	1514.0	899.9	412.9	341.4	301.7	280.6	262.0	240.9	240.9
25°	3372.0	2641.5	1331.4	645.8	333.5	272.6	235.6	206.5	187.9	169.4	172.0
27.5°	3491.2	2559.5	1159.3	412.9	267.3	206.5	164.1	140.3	124.4	105.9	105.9
30°	3560.0	2408.6	974.0	291.2	201.2	140.3	97.9	74.1	58.2	45.0	42.3
32.5°	3628.8	2286.9	764.9	222.3	132.3	74.1	37.1	13.2	0.0	0.0	0.0
35°	3766.4	2149.2	513.5	124.4	45.0	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3853.8	1958.6	235.6	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4073.5	1863.4	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4430.8	1797.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4822.5	1770.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5343.9	1842.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5894.5	2035.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6497.9	2218.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7024.7	2437.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7993.4	2956.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9732.4	3975.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11691.0	4732.5	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12408.3	4714.0	50.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12281.2	4454.6	50.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11622.2	3957.0	45.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9981.2	3268.8	45.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7609.6	2546.2	42.3	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4592.2	1355.2	34.4	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1829.0	476.4	26.5	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	495.0	142.9	15.9	10.6	7.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	129.7	52.9	13.2	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0
85°	50.3	21.2	10.6	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0
87.5°	15.9	7.9	7.9	5.3	5.3	2.6	2.6	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)