

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: P481588

Luminaire Tested: **IFLD-S-SA3A-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481588
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

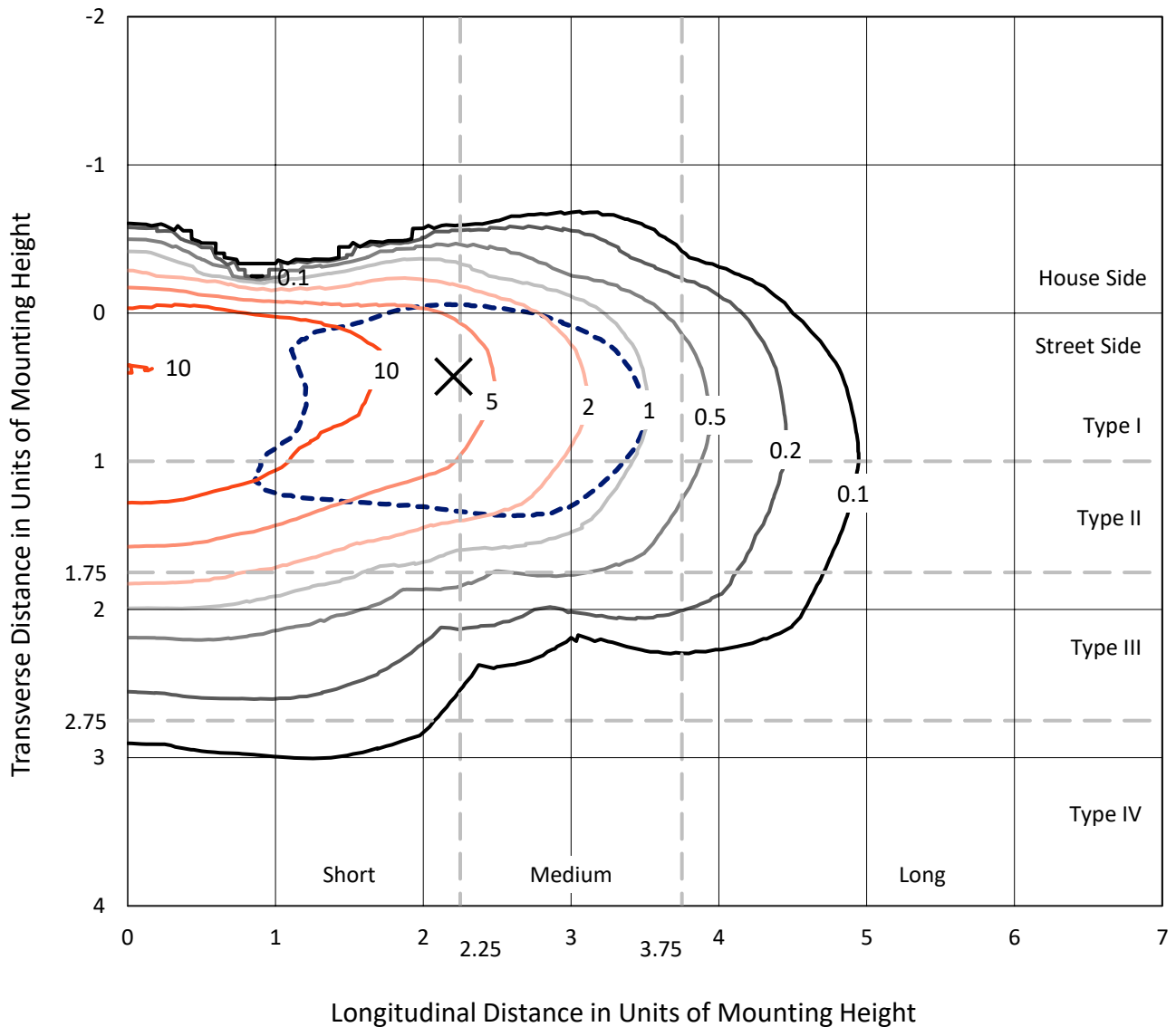
Lumens per Lamp: N/A
Luminaire Lumens: 9022.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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: P481588
 CATALOG NUMBER: IFLD-S-SA3A-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

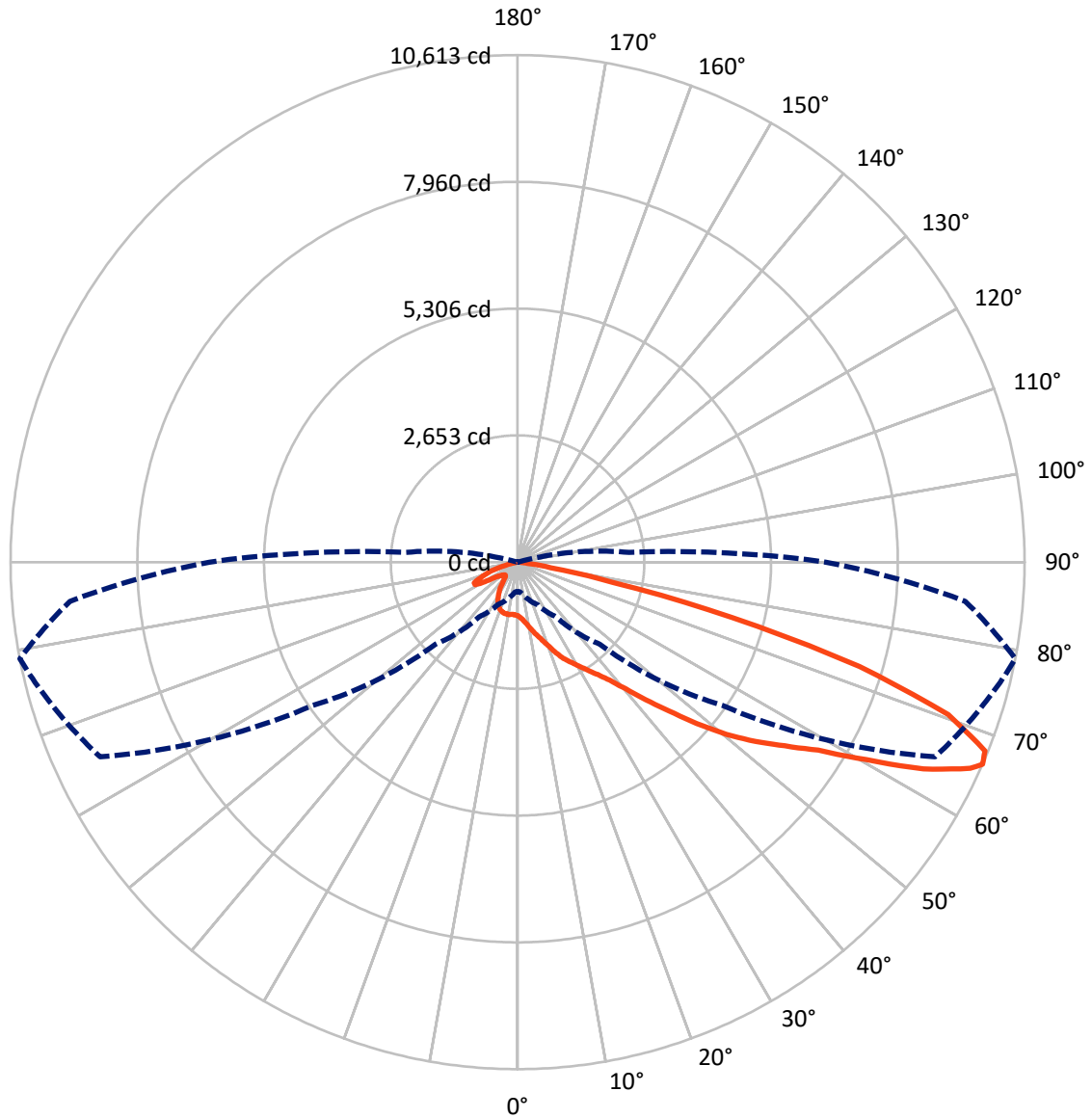
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

REPORT NUMBER: P481588
CATALOG NUMBER: IFLD-S-SA3A-730-U-T2-HSS

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	677.5	0.0	677.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8344.8	0.0	8344.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	9022.3	0.0	9022.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.2
10°-20°	292.2	3.2
20°-30°	485.3	5.4
30°-40°	833.6	9.2
40°-50°	1510.2	16.7
50°-60°	2387.2	26.5
60°-70°	2429.2	26.9
70°-80°	926.4	10.3
80°-90°	51.9	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°	9022.3	100.0
0°-180°	9022.3	100.0

Coefficient of Utilization



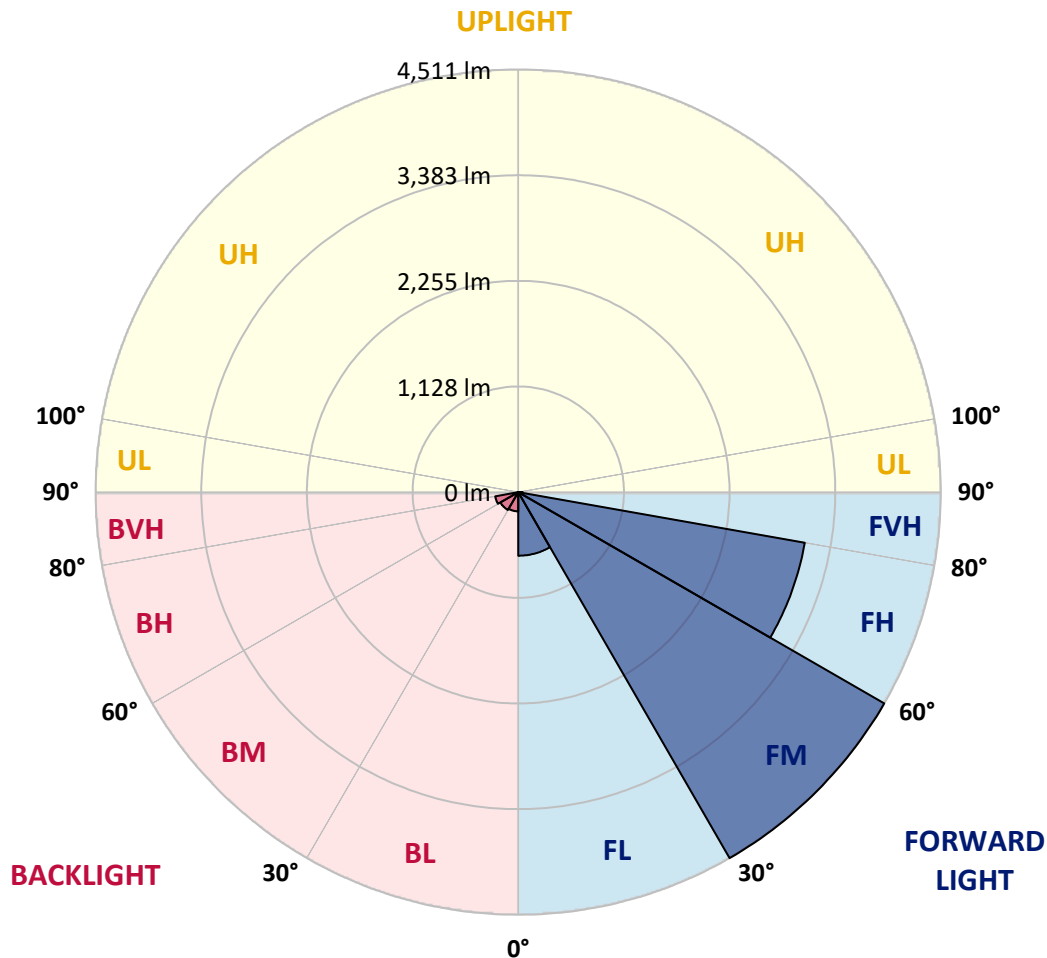
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.8	7.5			
FM (30°-60°)	4510.9	50.0			
FH (60°-80°)	3105.8	34.4			G2/5000
FVH (80°-90°)	49.3	0.5			G1/100
BL (0°-30°)	204.9	2.3	B1/500		
BM (30°-60°)	220.2	2.4	B1/1000		
BH (60°-80°)	249.7	2.8	B1/500		G1/500
BVH (80°-90°)	2.7	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: P481588

CATALOG NUMBER: IFLD-S-SA3A-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1271.3	1269.9	1264.4	1254.6	1242.1	1237.9	1219.8	1194.8	1180.9	1165.6	1158.6
5°	1358.9	1352.0	1368.7	1361.7	1364.5	1331.1	1308.9	1290.8	1237.9	1217.1	1183.7
7.5°	1378.4	1385.4	1384.0	1395.1	1406.2	1418.7	1403.4	1377.0	1324.2	1293.6	1257.4
10°	1378.4	1375.6	1386.8	1402.1	1434.0	1461.9	1503.6	1468.8	1428.5	1392.3	1326.9
12.5°	1353.4	1349.2	1360.3	1392.3	1449.3	1506.4	1552.3	1585.7	1528.6	1499.4	1414.6
15°	1276.9	1272.7	1318.6	1375.6	1450.7	1543.9	1639.9	1694.1	1655.2	1609.3	1514.7
17.5°	1182.3	1187.9	1236.5	1331.1	1450.7	1562.0	1684.4	1802.6	1797.1	1738.7	1639.9
20°	1150.3	1154.5	1203.2	1271.3	1407.6	1574.5	1754.0	1920.9	1954.3	1884.7	1755.3
22.5°	1211.5	1207.3	1211.5	1253.2	1378.4	1563.4	1799.9	2055.8	2115.6	2061.4	1907.0
25°	1420.1	1417.4	1382.6	1318.6	1361.7	1538.4	1823.5	2144.8	2282.5	2232.4	2029.4
27.5°	1726.1	1715.0	1660.8	1527.2	1439.6	1553.7	1862.5	2231.0	2428.6	2371.5	2139.2
30°	2054.4	2028.0	1957.0	1790.1	1641.3	1610.7	1884.7	2295.0	2591.3	2519.0	2235.2
32.5°	2281.1	2315.9	2293.6	2123.9	1895.8	1742.8	1920.9	2375.7	2741.5	2694.2	2399.3
35°	2631.6	2672.0	2578.8	2428.6	2199.1	1952.9	1997.4	2441.1	2972.4	2893.1	2552.3
37.5°	3073.9	3104.5	3037.8	2752.6	2510.6	2211.6	2154.5	2577.4	3171.3	3133.8	2748.5
40°	3296.5	3443.9	3349.4	3092.0	2831.9	2573.2	2414.6	2737.3	3517.7	3487.1	3019.7
42.5°	3603.9	3677.6	3628.9	3438.4	3167.1	2959.9	2736.0	3048.9	3937.7	3937.7	3386.9
45°	3929.4	3932.1	3929.4	3773.6	3533.0	3425.9	3169.9	3439.8	4389.8	4439.8	3826.4
47.5°	4196.4	4279.9	4272.9	4179.7	3993.3	3953.0	3603.9	3884.9	4957.3	5044.9	4254.8
50°	4334.1	4427.3	4455.1	4503.8	4495.5	4580.3	4078.2	4400.9	5446.9	5662.5	4805.7
52.5°	4296.6	4303.5	4474.6	4666.6	4972.6	5210.4	4649.9	4986.5	6019.9	6232.7	5231.3
55°	3989.2	3962.7	4314.7	4534.4	5167.3	5595.7	5441.3	5716.7	6466.4	6790.5	5670.8
57.5°	3314.6	3321.5	3647.0	4093.5	5022.6	5748.7	6287.0	6670.9	7092.3	7419.2	6288.4
60°	2288.1	2279.7	2644.2	3160.2	4172.8	5463.6	6773.8	7907.4	7929.7	8392.8	7396.9
62.5°	1286.6	1289.4	1566.2	2007.1	2919.6	4464.9	6750.2	9220.5	9125.9	9532.0	8657.1
65°	728.8	746.9	937.5	1189.2	1748.4	2997.4	5805.7	9743.4	10048.1	10409.7	9422.1
66°	616.2	628.7	791.4	982.0	1395.1	2431.3	5225.7	9641.9	10337.4	10612.8	9406.8
67.5°	477.1	493.8	630.1	778.9	1023.7	1683.0	4206.2	9137.0	10390.2	10551.6	9141.2
70°	326.9	338.0	442.3	591.1	699.6	861.0	2514.8	7554.1	9427.7	9564.0	7945.0
72.5°	229.5	235.1	310.2	447.9	538.3	492.4	1247.7	5374.5	7214.7	7480.4	6179.9
75°	165.5	171.1	212.8	321.3	420.1	322.7	571.7	3432.8	4424.5	4633.2	3722.1
77.5°	119.6	126.6	144.7	207.2	304.6	226.7	281.0	1792.9	2086.4	2050.2	1601.0
80°	72.3	79.3	107.1	133.5	222.5	160.0	154.4	748.3	740.0	702.4	503.5
82.5°	33.4	38.9	57.0	90.4	155.8	111.3	73.7	267.1	233.7	214.2	141.9
85°	9.7	12.5	33.4	68.2	79.3	54.2	44.5	91.8	96.0	82.1	47.3
87.5°	0.0	1.4	15.3	16.7	23.6	18.1	16.7	23.6	44.5	36.2	15.3
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°	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1133.6	1123.9	1100.2	1064.1	1032.1	1015.4	991.7	970.9	959.7	958.3	957.0
5°	1161.4	1135.0	1078.0	1012.6	963.9	911.1	874.9	848.5	823.4	799.8	813.7
7.5°	1199.0	1157.3	1064.1	979.2	873.5	805.3	741.4	703.8	681.6	660.7	657.9
10°	1257.4	1204.5	1054.3	901.3	780.3	680.2	614.8	560.5	529.9	493.8	507.7
12.5°	1336.7	1242.1	1018.2	830.4	674.6	568.9	475.7	388.1	339.4	301.8	303.2
15°	1416.0	1292.2	984.8	744.1	578.6	439.5	303.2	243.4	229.5	221.2	223.9
17.5°	1493.9	1332.5	933.3	656.5	468.7	279.6	221.2	208.6	201.7	193.3	193.3
20°	1588.4	1358.9	869.3	575.8	322.7	207.2	189.2	180.8	169.7	158.6	160.0
22.5°	1680.2	1381.2	795.6	472.9	217.0	179.4	158.6	147.4	137.7	126.6	126.6
25°	1772.0	1388.1	699.6	339.4	175.3	143.3	123.8	108.5	98.8	89.0	90.4
27.5°	1834.6	1345.0	609.2	217.0	140.5	108.5	86.2	73.7	65.4	55.6	55.6
30°	1870.8	1265.7	511.9	153.0	105.7	73.7	51.5	38.9	30.6	23.6	22.3
32.5°	1907.0	1201.8	402.0	116.8	69.5	38.9	19.5	7.0	0.0	0.0	0.0
35°	1979.3	1129.4	269.8	65.4	23.6	1.4	0.0	0.0	0.0	0.0	0.0
37.5°	2025.2	1029.3	123.8	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2140.6	979.2	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2328.4	944.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2534.3	930.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2808.3	968.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3097.6	1069.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3414.7	1165.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3691.5	1281.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4200.6	1553.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5114.4	2089.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6143.7	2487.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6520.7	2477.2	26.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6453.9	2340.9	26.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6107.6	2079.4	23.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5245.2	1717.8	23.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3998.9	1338.1	22.3	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2413.3	712.2	18.1	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	961.1	250.4	13.9	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	260.1	75.1	8.3	5.6	4.2	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	68.2	27.8	7.0	5.6	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	26.4	11.1	5.6	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0
87.5°	8.3	4.2	4.2	2.8	2.8	1.4	1.4	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)