

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: P481585

Luminaire Tested: **IFLD-S-SA2C-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481585
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

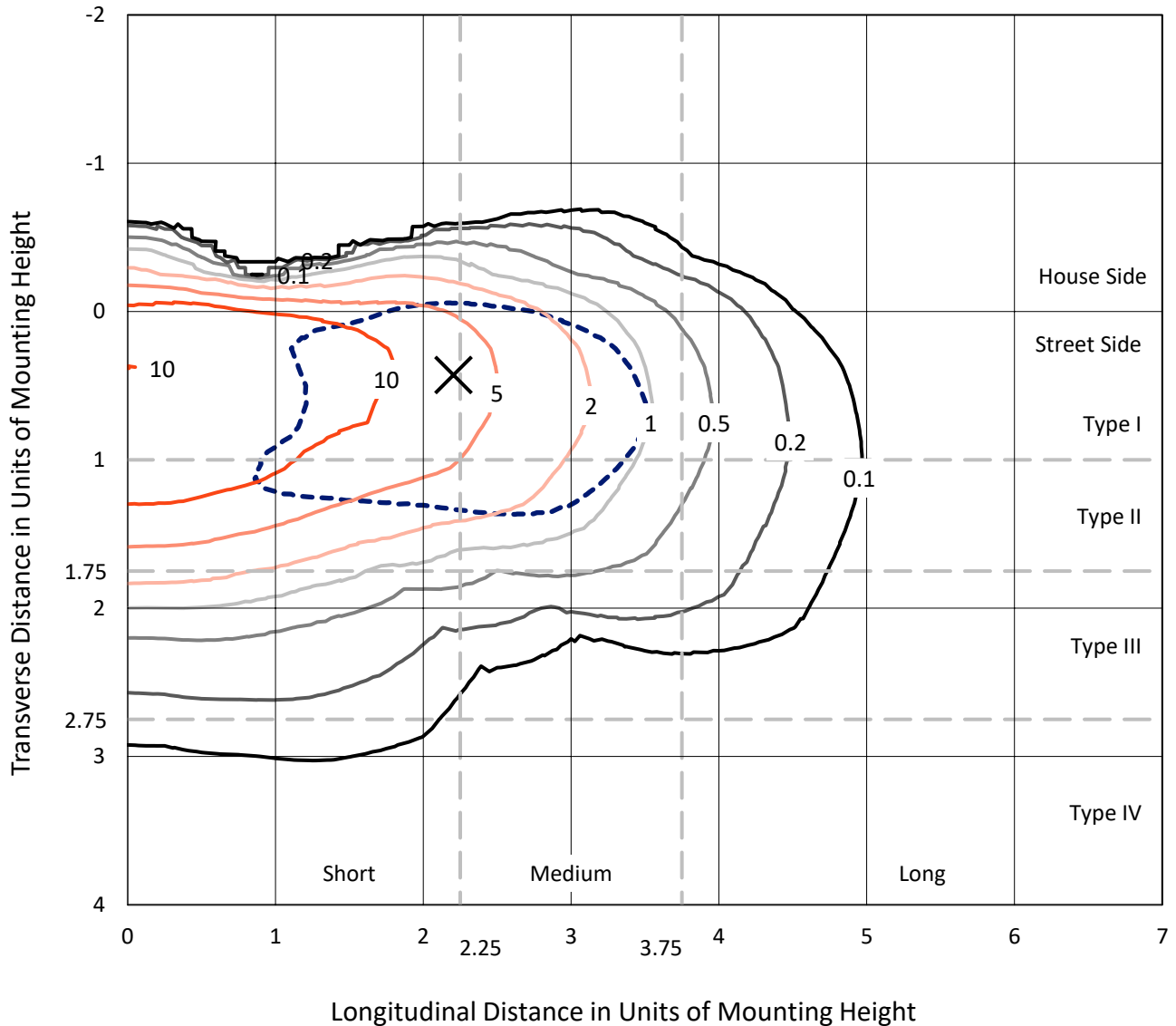
Lumens per Lamp: N/A
Luminaire Lumens: 9320.5 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

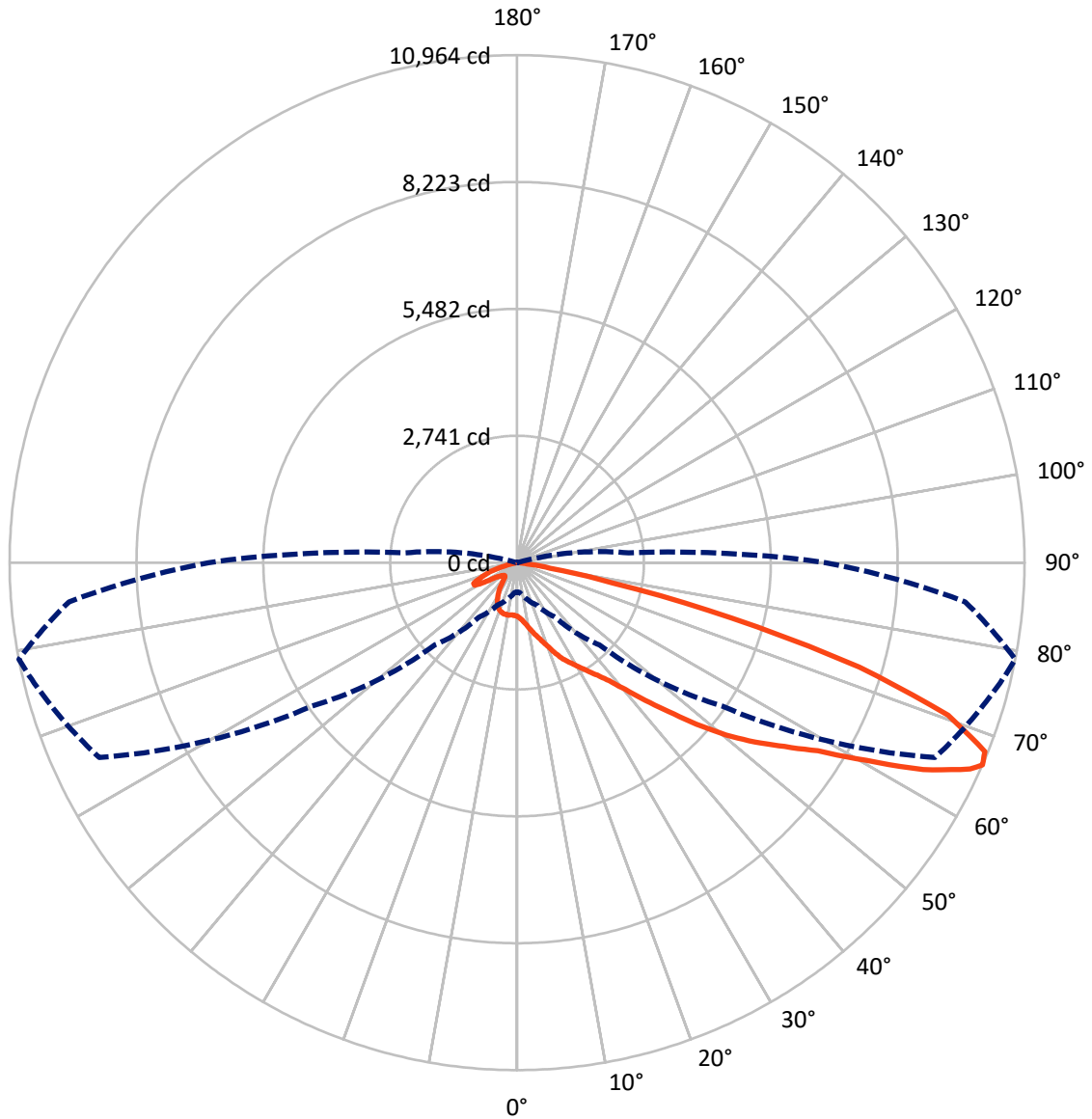
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 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	699.8	0.0	699.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8620.7	0.0	8620.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	9320.5	0.0	9320.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.2
10°-20°	301.8	3.2
20°-30°	501.4	5.4
30°-40°	861.2	9.2
40°-50°	1560.2	16.7
50°-60°	2466.2	26.5
60°-70°	2509.5	26.9
70°-80°	957.0	10.3
80°-90°	53.6	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°	9320.5	100.0
0°-180°	9320.5	100.0

Coefficient of Utilization



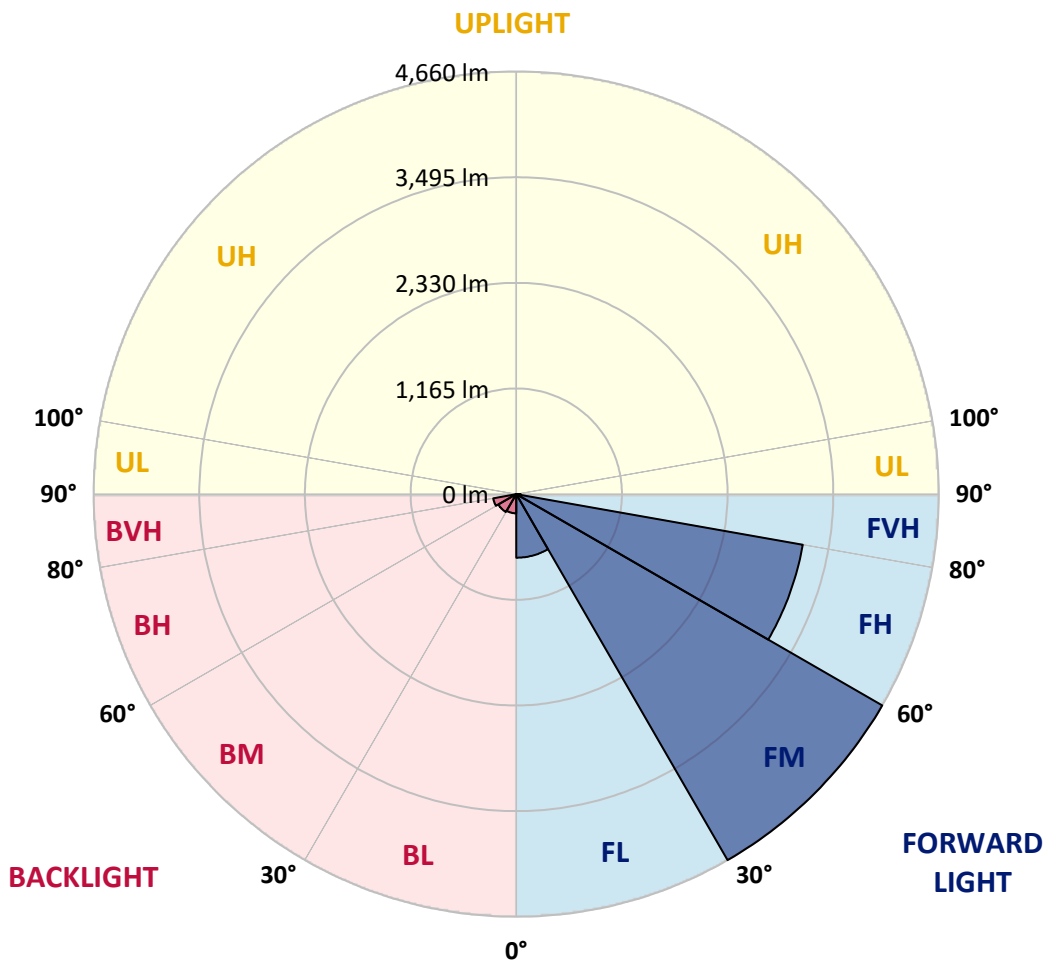
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.2	7.5			
FM (30°-60°)	4660.1	50.0			
FH (60°-80°)	3208.5	34.4			G2/5000
FVH (80°-90°)	50.9	0.5			G1/100
BL (0°-30°)	211.7	2.3	B1/500		
BM (30°-60°)	227.5	2.4	B1/1000		
BH (60°-80°)	258.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1313.3	1311.9	1306.2	1296.1	1283.2	1278.9	1260.2	1234.3	1219.9	1204.1	1196.9
5°	1403.9	1396.7	1413.9	1406.7	1409.6	1375.1	1352.1	1333.5	1278.9	1257.3	1222.8
7.5°	1424.0	1431.2	1429.7	1441.2	1452.7	1465.7	1449.8	1422.5	1367.9	1336.3	1299.0
10°	1424.0	1421.1	1432.6	1448.4	1481.5	1510.2	1553.3	1517.4	1475.7	1438.3	1370.8
12.5°	1398.1	1393.8	1405.3	1438.3	1497.3	1556.2	1603.6	1638.1	1579.2	1549.0	1461.3
15°	1319.1	1314.8	1362.2	1421.1	1498.7	1595.0	1694.1	1750.2	1709.9	1662.5	1564.8
17.5°	1221.4	1227.1	1277.4	1375.1	1498.7	1613.7	1740.1	1862.2	1856.5	1796.1	1694.1
20°	1188.3	1192.6	1242.9	1313.3	1454.2	1626.6	1811.9	1984.4	2018.9	1947.0	1813.4
22.5°	1251.6	1247.2	1251.6	1294.7	1424.0	1615.1	1859.4	2123.8	2185.5	2129.5	1970.0
25°	1467.1	1464.2	1428.3	1362.2	1406.7	1589.2	1883.8	2215.7	2358.0	2306.2	2096.5
27.5°	1783.2	1771.7	1715.7	1577.7	1487.2	1605.0	1924.0	2304.8	2508.8	2449.9	2210.0
30°	2122.3	2095.0	2021.7	1849.3	1695.6	1663.9	1947.0	2370.9	2677.0	2602.2	2309.1
32.5°	2356.5	2392.5	2369.5	2194.2	1958.5	1800.5	1984.4	2454.2	2832.2	2783.3	2478.7
35°	2718.6	2760.3	2664.0	2508.8	2271.8	2017.4	2063.4	2521.8	3070.7	2988.8	2636.7
37.5°	3175.6	3207.2	3138.2	2843.6	2593.6	2284.7	2225.8	2662.6	3276.2	3237.4	2839.3
40°	3405.5	3557.8	3460.1	3194.3	2925.6	2658.3	2494.5	2827.8	3634.0	3602.3	3119.5
42.5°	3723.0	3799.2	3748.9	3552.0	3271.8	3057.7	2826.4	3149.7	4067.9	4067.9	3498.9
45°	4059.3	4062.2	4059.3	3898.3	3649.8	3539.1	3274.7	3553.5	4534.9	4586.6	3952.9
47.5°	4335.2	4421.4	4414.2	4317.9	4125.4	4083.7	3723.0	4013.3	5121.2	5211.7	4395.5
50°	4477.4	4573.7	4602.4	4652.7	4644.1	4731.8	4213.0	4546.4	5626.9	5849.7	4964.5
52.5°	4438.6	4445.8	4622.5	4820.8	5137.0	5382.7	4803.6	5151.3	6219.0	6438.8	5404.2
55°	4121.1	4093.8	4457.3	4684.3	5338.1	5780.7	5621.2	5905.7	6680.2	7015.0	5858.3
57.5°	3424.2	3431.3	3767.6	4228.8	5188.7	5938.8	6494.8	6891.4	7326.8	7664.5	6496.3
60°	2363.7	2355.1	2731.6	3264.7	4310.7	5644.2	6997.8	8168.8	8191.8	8670.3	7641.5
62.5°	1329.1	1332.0	1618.0	2073.5	3016.1	4612.5	6973.3	9525.3	9427.6	9847.2	8943.3
65°	752.9	771.6	968.5	1228.6	1806.2	3096.5	5997.7	10065.6	10380.3	10753.9	9733.6
66°	636.6	649.5	817.6	1014.5	1441.2	2511.7	5398.5	9960.7	10679.1	10963.6	9717.8
67.5°	492.9	510.1	650.9	804.7	1057.6	1738.7	4345.2	9439.1	10733.7	10900.4	9443.4
70°	337.7	349.2	456.9	610.7	722.8	889.4	2597.9	7803.9	9739.4	9880.2	8207.6
72.5°	237.1	242.8	320.4	462.7	556.1	508.7	1288.9	5552.2	7453.3	7727.7	6384.2
75°	171.0	176.7	219.8	331.9	433.9	333.4	590.6	3546.3	4570.8	4786.4	3845.2
77.5°	123.6	130.8	149.4	214.1	314.7	234.2	290.3	1852.2	2155.4	2118.0	1653.9
80°	74.7	81.9	110.6	137.9	229.9	165.2	159.5	773.1	764.4	725.6	520.2
82.5°	34.5	40.2	58.9	93.4	160.9	115.0	76.2	275.9	241.4	221.3	146.6
85°	10.1	12.9	34.5	70.4	81.9	56.0	46.0	94.8	99.1	84.8	48.9
87.5°	0.0	1.4	15.8	17.2	24.4	18.7	17.2	24.4	46.0	37.4	15.8
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°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1171.1	1161.0	1136.6	1099.2	1066.2	1048.9	1024.5	1003.0	991.5	990.0	988.6
5°	1199.8	1172.5	1113.6	1046.1	995.8	941.2	903.8	876.5	850.7	826.2	840.6
7.5°	1238.6	1195.5	1099.2	1011.6	902.4	832.0	765.9	727.1	704.1	682.5	679.7
10°	1299.0	1244.4	1089.2	931.1	806.1	702.7	635.1	579.1	547.5	510.1	524.5
12.5°	1380.9	1283.2	1051.8	857.8	696.9	587.7	491.4	400.9	350.6	311.8	313.2
15°	1462.8	1334.9	1017.3	768.7	597.8	454.1	313.2	251.5	237.1	228.5	231.3
17.5°	1543.2	1376.6	964.2	678.2	484.2	288.8	228.5	215.5	208.4	199.7	199.7
20°	1641.0	1403.9	898.1	594.9	333.4	214.1	195.4	186.8	175.3	163.8	165.2
22.5°	1735.8	1426.9	821.9	488.6	224.2	185.4	163.8	152.3	142.3	130.8	130.8
25°	1830.6	1434.0	722.8	350.6	181.1	148.0	127.9	112.1	102.0	92.0	93.4
27.5°	1895.3	1389.5	629.4	224.2	145.1	112.1	89.1	76.2	67.5	57.5	57.5
30°	1932.6	1307.6	528.8	158.1	109.2	76.2	53.2	40.2	31.6	24.4	23.0
32.5°	1970.0	1241.5	415.3	120.7	71.8	40.2	20.1	7.2	0.0	0.0	0.0
35°	2044.7	1166.8	278.8	67.5	24.4	1.4	0.0	0.0	0.0	0.0	0.0
37.5°	2092.1	1063.3	127.9	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2211.4	1011.6	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2405.4	975.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2618.1	961.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2901.1	1000.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3200.0	1105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3527.6	1204.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3813.6	1323.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4339.5	1605.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5283.5	2158.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6346.8	2569.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6736.2	2559.1	27.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6667.3	2418.3	27.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6309.5	2148.2	24.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5418.6	1774.6	24.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4131.1	1382.3	23.0	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2493.0	735.7	18.7	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	992.9	258.6	14.4	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	268.7	77.6	8.6	5.7	4.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	70.4	28.7	7.2	5.7	2.9	1.4	0.0	0.0	0.0	0.0	0.0
85°	27.3	11.5	5.7	4.3	4.3	2.9	1.4	0.0	0.0	0.0	0.0
87.5°	8.6	4.3	4.3	2.9	2.9	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)