

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: P481895

Luminaire Tested: **IFLD-S-SA2A-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481895
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

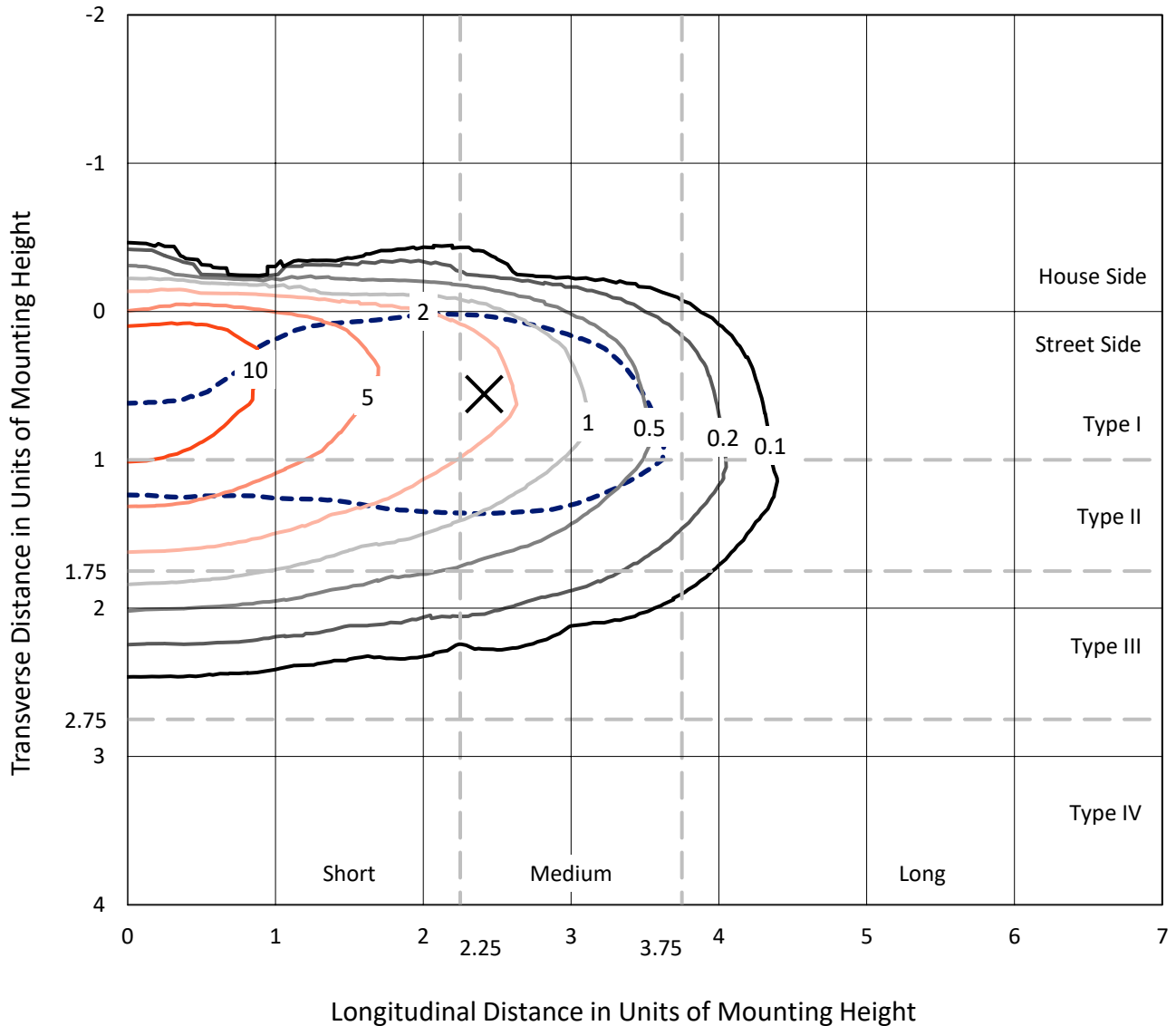
Lumens per Lamp: N/A
Luminaire Lumens: 5346.5 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 63.8
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

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 CATALOG NUMBER: IFLD-S-SA2A-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

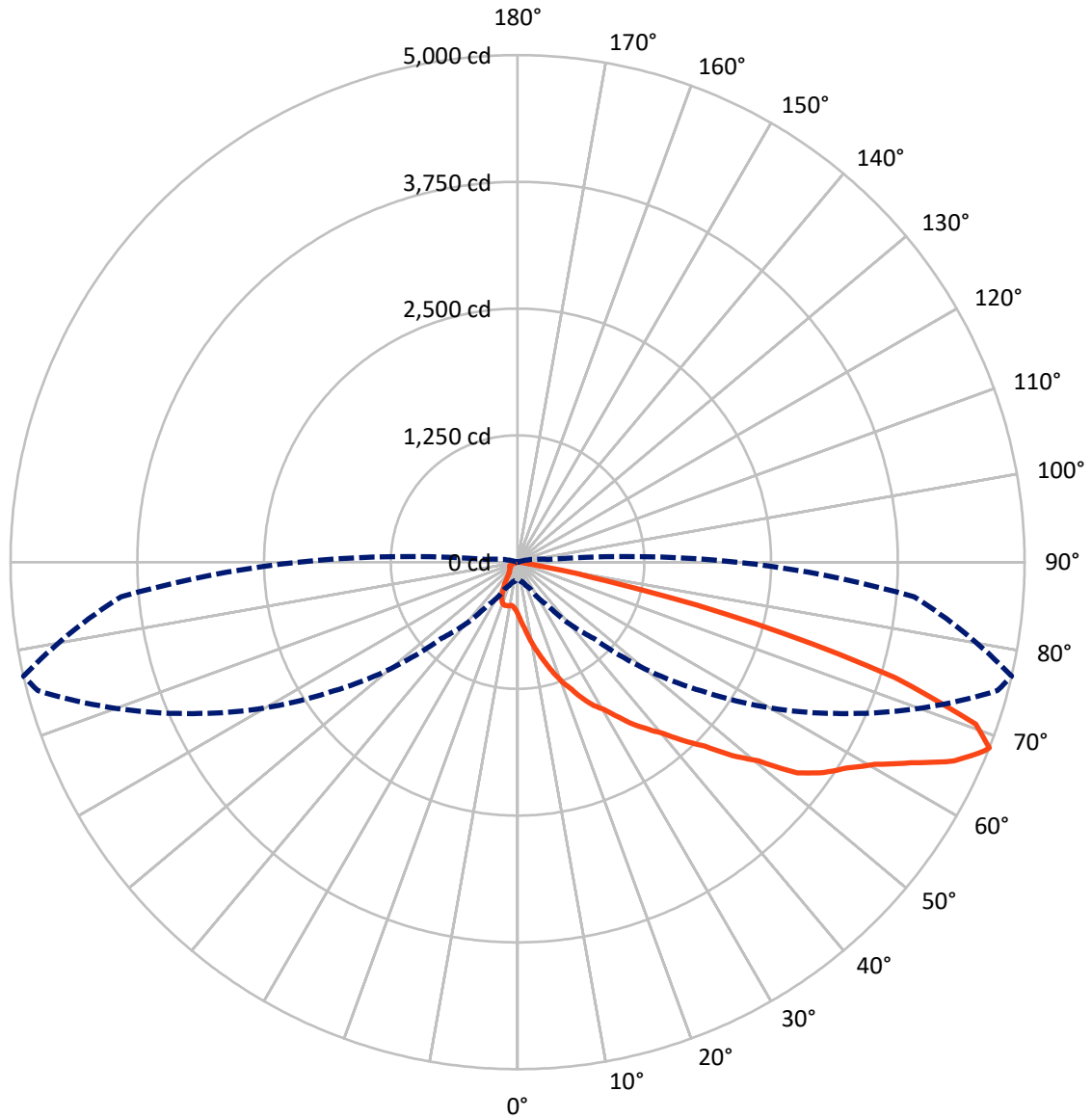
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P481895
CATALOG NUMBER: IFLD-S-SA2A-722-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	242.5	0.0	242.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	5104.1	0.0	5104.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	5346.5	0.0	5346.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.1
10°-20°	220.6	4.1
20°-30°	427.5	8.0
30°-40°	745.3	13.9
40°-50°	1091.5	20.4
50°-60°	1282.3	24.0
60°-70°	1082.8	20.3
70°-80°	419.7	7.9
80°-90°	17.1	0.3
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°	5346.5	100.0
0°-180°	5346.5	100.0

Coefficient of Utilization



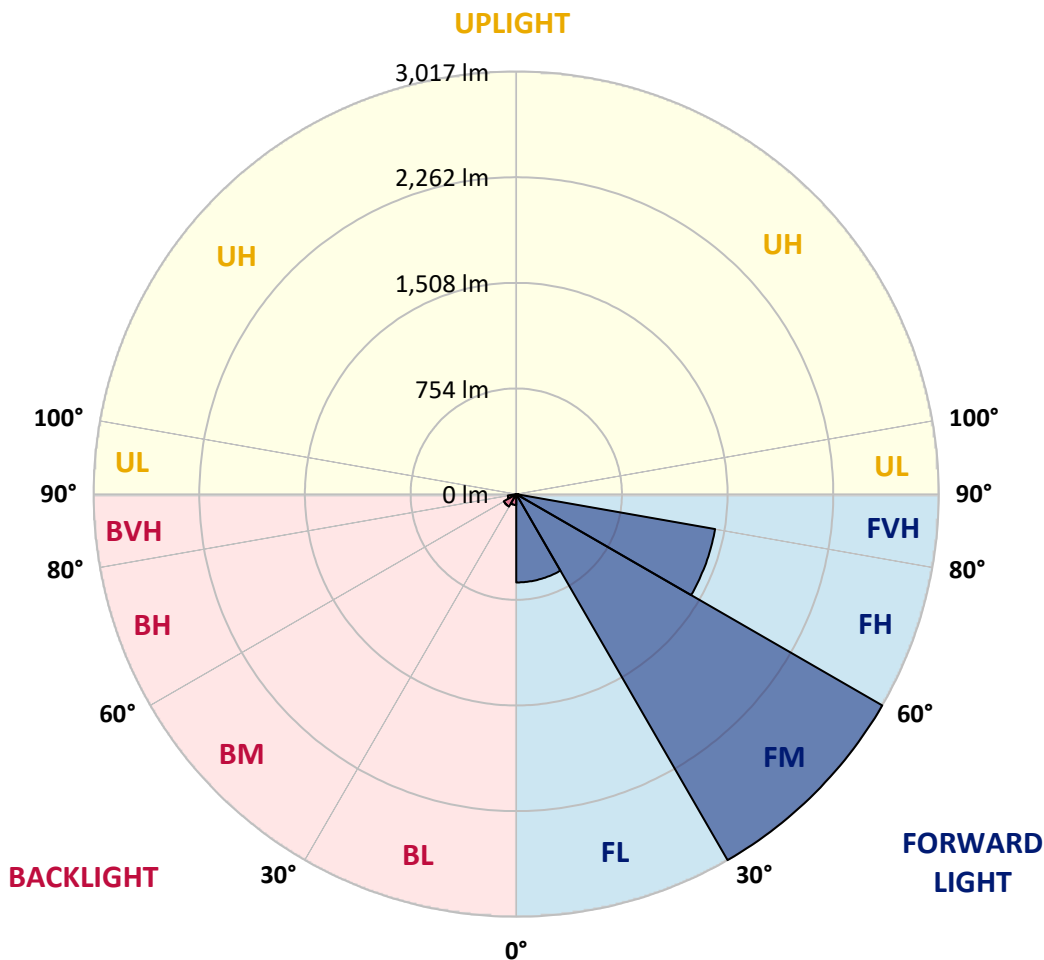
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.4	11.8			
FM (30°-60°)	3016.6	56.4			
FH (60°-80°)	1441.3	27.0			G1/1800
FVH (80°-90°)	15.7	0.3			G1/100
BL (0°-30°)	77.5	1.4	B0/110		
BM (30°-60°)	102.5	1.9	B0/220		
BH (60°-80°)	61.2	1.1	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





REPORT NUMBER: P481895

CATALOG NUMBER: IFLD-S-SA2A-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9
2.5°	777.9	763.1	747.7	743.2	714.5	682.1	651.9	622.4	573.1	573.8	539.9
5°	1002.5	984.1	971.6	968.6	923.7	867.7	822.1	738.8	657.1	638.6	576.8
7.5°	1187.4	1181.5	1163.1	1147.6	1114.5	1046.0	992.2	872.9	748.4	727.8	621.7
10°	1299.4	1308.2	1316.3	1296.4	1270.6	1221.3	1147.6	1018.7	852.3	826.5	679.9
12.5°	1418.7	1404.0	1409.1	1425.3	1391.5	1380.4	1289.1	1169.0	973.8	924.4	753.5
15°	1449.6	1455.5	1468.1	1515.2	1538.0	1506.4	1427.5	1290.5	1099.8	1031.2	822.1
17.5°	1470.3	1467.3	1482.8	1553.5	1588.1	1618.3	1569.0	1426.1	1209.5	1148.4	907.5
20°	1496.0	1479.8	1513.7	1558.7	1639.0	1702.3	1700.1	1562.3	1324.4	1259.6	992.2
22.5°	1591.8	1579.3	1606.5	1611.0	1666.9	1755.3	1776.7	1673.6	1442.3	1362.7	1083.5
25°	1768.6	1791.4	1759.0	1731.0	1748.0	1806.2	1821.6	1772.3	1560.9	1487.9	1174.9
27.5°	2027.1	2024.2	1960.1	1924.0	1883.5	1876.1	1887.2	1864.4	1654.4	1602.1	1250.0
30°	2304.8	2280.5	2221.6	2134.7	2045.6	1990.3	1974.8	1951.3	1764.2	1688.3	1324.4
32.5°	2525.8	2539.1	2473.5	2360.1	2212.0	2137.6	2063.2	2037.5	1885.0	1817.9	1409.9
35°	2729.1	2711.5	2659.2	2563.4	2430.8	2310.7	2194.4	2139.1	2030.1	1963.8	1504.2
37.5°	2879.4	2901.5	2802.1	2710.7	2578.9	2479.4	2365.2	2244.4	2179.6	2091.2	1619.1
40°	3021.6	2986.9	2919.9	2835.9	2713.7	2637.8	2562.7	2374.1	2338.7	2224.6	1748.7
42.5°	2996.5	2998.7	2961.9	2894.1	2805.7	2762.3	2736.5	2531.7	2483.1	2410.2	1875.4
45°	2894.1	2903.0	2915.5	2882.3	2889.7	2846.2	2915.5	2712.9	2665.0	2587.7	2021.2
47.5°	2781.4	2796.2	2793.2	2853.6	2922.1	2936.9	3110.0	2914.0	2893.4	2850.7	2223.1
50°	2594.3	2600.2	2656.9	2766.7	2860.2	3014.2	3255.8	3133.5	3165.2	3081.2	2463.2
52.5°	2274.6	2296.0	2441.9	2598.7	2787.3	3053.2	3354.5	3459.8	3540.1	3454.0	2693.8
55°	1870.2	1899.7	2043.3	2337.3	2613.5	2994.3	3444.4	3632.2	3795.0	3664.6	2833.7
57.5°	1504.9	1507.8	1636.7	1940.2	2366.7	2878.7	3490.0	3716.2	3935.0	3830.4	3004.6
60°	1146.9	1135.1	1250.8	1513.7	1951.3	2594.3	3375.9	3758.9	4109.5	4049.1	3210.1
62.5°	738.1	719.7	845.6	1102.0	1524.0	2120.7	3147.5	3759.6	4382.1	4359.2	3554.1
65°	365.4	352.8	461.1	675.5	1054.8	1622.0	2821.9	3745.6	4715.0	4729.8	3889.3
67.5°	193.0	197.4	232.0	342.5	608.4	1146.2	2331.4	3581.4	4885.2	4967.7	3970.3
68°	177.5	179.0	206.2	285.1	528.1	1062.9	2215.0	3533.5	4898.4	5000.1	3925.4
70°	144.4	146.6	156.2	179.0	285.8	691.7	1708.9	3126.9	4698.8	4791.6	3553.4
72.5°	114.9	121.5	127.4	137.0	167.9	363.1	1062.9	2436.7	3881.9	3892.2	2766.0
75°	87.7	92.8	104.6	112.7	131.1	199.6	506.0	1485.7	2547.2	2422.0	1629.4
77.5°	67.8	72.2	77.3	88.4	109.8	134.8	154.7	630.5	1082.1	890.6	460.4
80°	40.5	43.5	60.4	69.2	95.8	91.3	61.1	175.3	219.5	173.1	84.0
82.5°	23.6	25.8	34.6	53.0	67.0	49.4	36.1	54.5	53.8	47.1	28.0
85°	0.7	1.5	19.2	31.7	23.6	13.3	22.1	22.8	19.2	17.7	12.5
87.5°	0.0	0.7	5.2	4.4	5.2	2.9	4.4	5.9	7.4	6.6	5.2
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: P481895

CATALOG NUMBER: IFLD-S-SA2A-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9	511.9
2.5°	517.1	500.9	464.8	437.5	408.1	390.4	372.7	361.7	355.8	352.1	355.0
5°	530.4	496.5	438.3	386.7	352.8	330.0	307.2	295.4	284.3	278.4	282.1
7.5°	559.8	509.0	412.5	356.5	316.7	281.4	252.7	229.8	216.6	204.8	207.0
10°	595.9	516.4	413.2	338.8	281.4	225.4	184.9	156.2	140.0	129.6	128.9
12.5°	632.7	545.1	416.2	321.2	237.9	169.4	121.5	100.2	90.6	85.4	85.4
15°	688.7	570.9	408.8	288.7	180.5	110.5	83.2	75.9	72.2	67.8	68.5
17.5°	737.3	612.1	405.1	240.1	123.7	79.6	69.2	61.1	57.5	53.0	53.0
20°	802.9	637.9	385.2	185.6	85.4	66.3	56.0	48.6	42.7	39.0	39.8
22.5°	862.6	657.8	349.9	126.7	65.6	52.3	41.2	33.9	28.7	24.3	25.0
25°	927.4	677.7	298.3	78.1	46.4	32.4	22.1	16.2	11.0	8.1	8.1
27.5°	973.8	683.6	231.3	46.4	28.0	14.7	5.2	0.7	0.0	0.0	0.0
30°	1020.9	685.8	159.8	25.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1074.7	685.0	100.2	13.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	1116.0	672.5	47.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1178.6	654.1	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1250.0	621.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1314.1	587.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1387.0	545.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1515.2	527.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1682.4	513.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1785.5	472.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1839.3	429.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1918.9	408.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2036.7	410.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2220.9	430.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2322.5	410.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2236.3	328.5	14.0	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	2161.9	302.0	14.0	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	1787.0	196.7	13.3	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1301.6	109.0	11.0	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	757.2	54.5	8.1	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	197.4	27.3	6.6	3.7	2.2	0.7	0.0	0.0	0.0	0.0	0.0
80°	39.0	17.7	5.9	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	12.5	5.9	4.4	3.7	2.2	0.7	0.0	0.0	0.0	0.0
85°	9.6	5.9	5.9	4.4	4.4	2.9	1.5	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	2.2	2.2	1.5	0.7	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)