

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: P482974

Luminaire Tested: **IFLD-M-SA4B-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482974
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

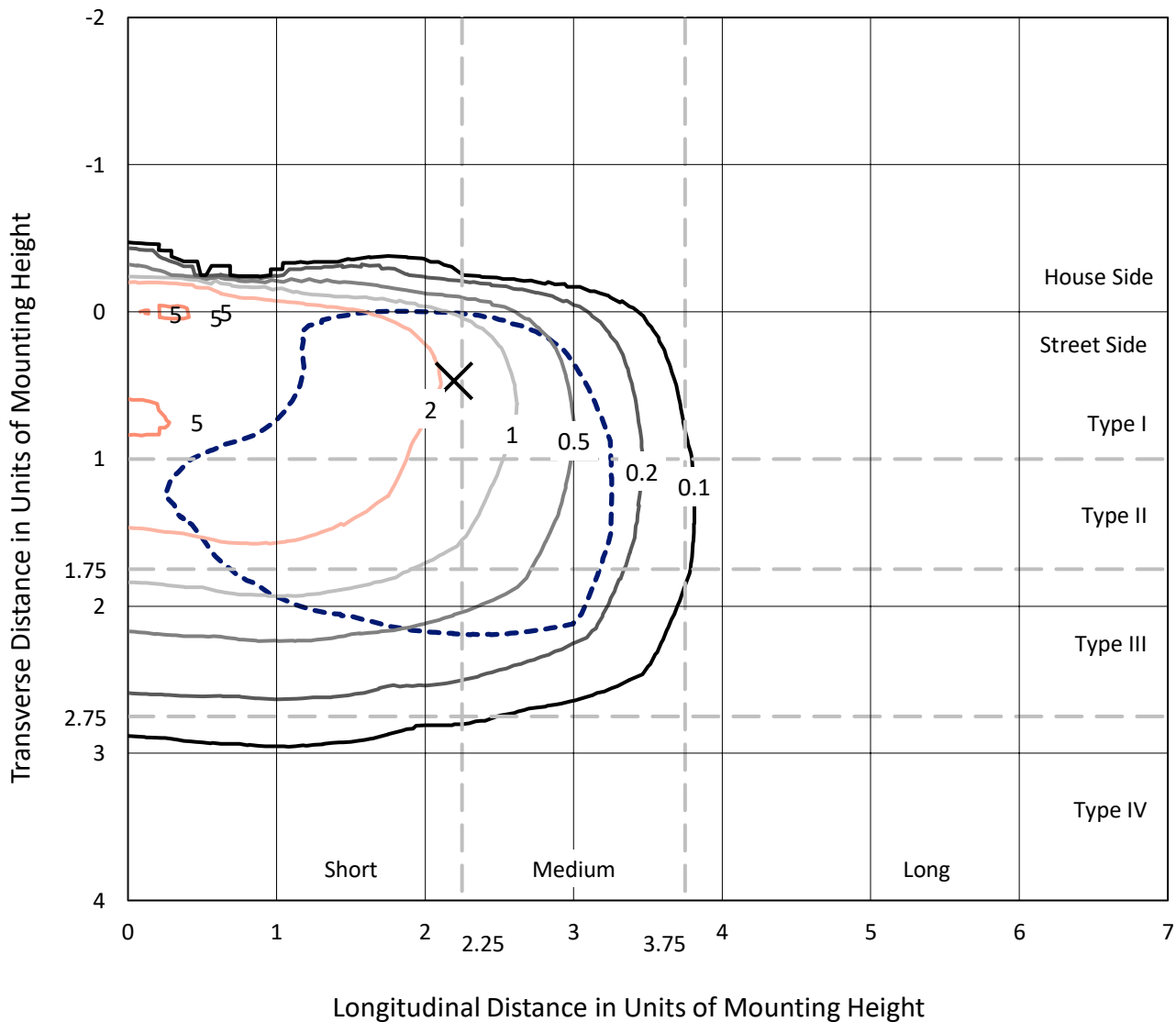
Lumens per Lamp: N/A
Luminaire Lumens: 12034.9 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (A_{in}): 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

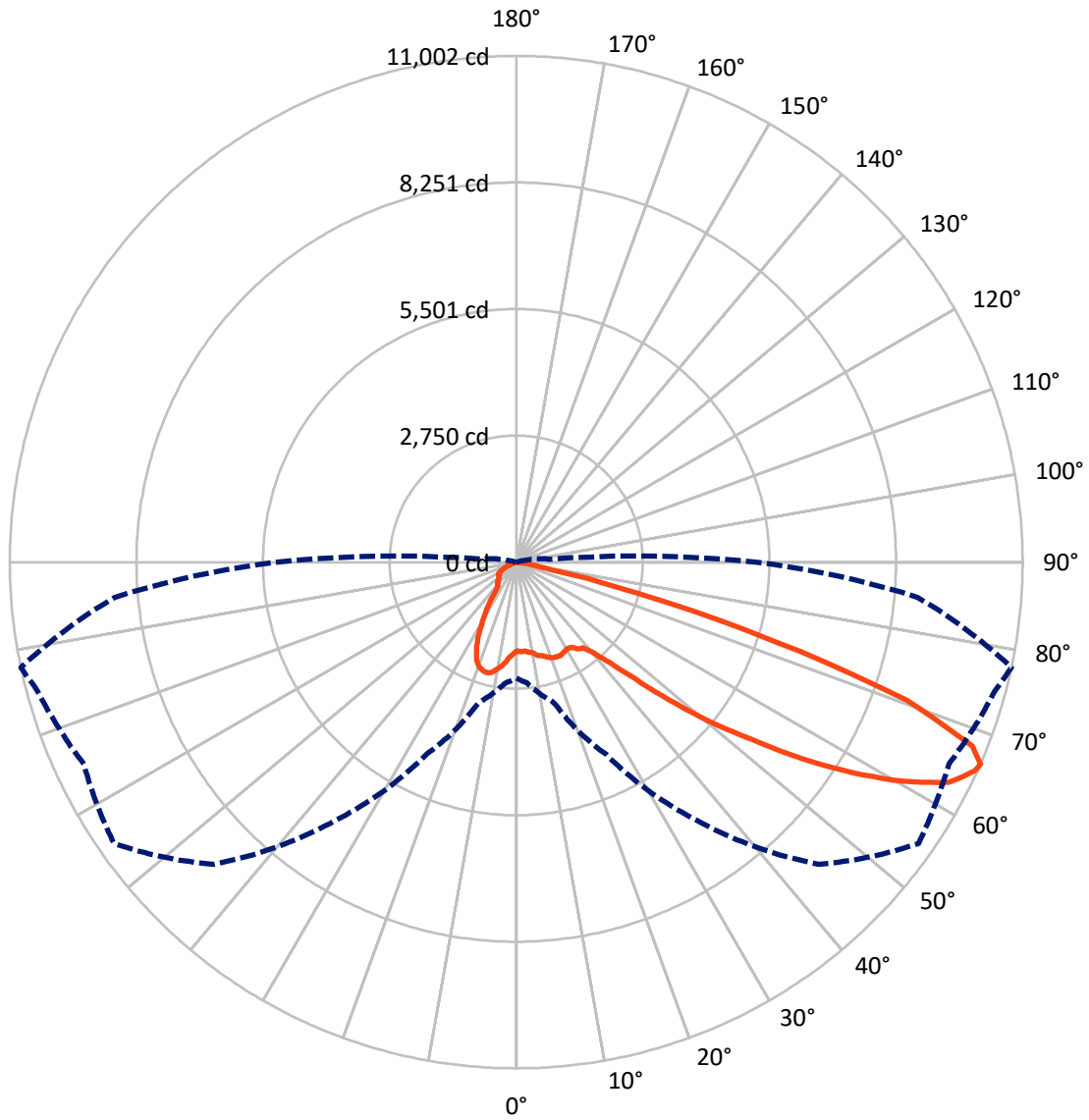
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	846.1	0.0	846.1
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	11188.8	0.0	11188.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	12034.9	0.0	12034.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.5
10°-20°	398.1	3.3
20°-30°	569.0	4.7
30°-40°	973.9	8.1
40°-50°	1757.9	14.6
50°-60°	3006.2	25.0
60°-70°	3700.1	30.7
70°-80°	1398.8	11.6
80°-90°	54.6	0.5
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°	12034.9	100.0
0°-180°	12034.9	100.0

Coefficient of Utilization

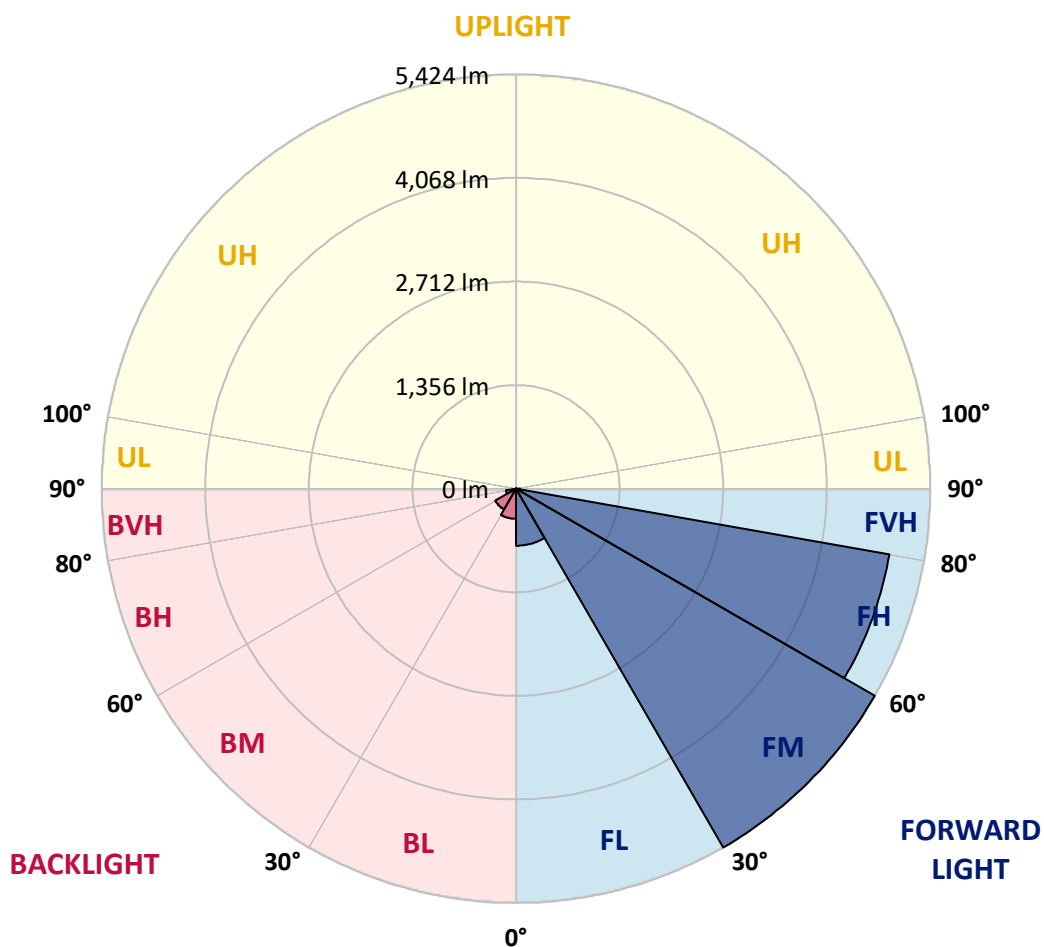


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	747.1	6.2			
FM (30°-60°)	5424.4	45.1			
FH (60°-80°)	4964.8	41.3			G2/5000
FVH (80°-90°)	52.4	0.4			G1/100
BL (0°-30°)	396.3	3.3	B1/500		
BM (30°-60°)	313.6	2.6	B1/1000		
BH (60°-80°)	134.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6
2.5°	1773.0	1756.7	1773.0	1796.7	1809.4	1820.3	1858.5	1891.2	1925.8	1949.4	1942.1
5°	1643.9	1674.8	1678.5	1685.7	1705.7	1771.2	1793.0	1849.4	1934.9	1942.1	1974.9
7.5°	1542.1	1533.0	1556.6	1603.9	1654.8	1693.0	1756.7	1854.9	1944.0	1974.9	2038.5
10°	1394.8	1413.0	1438.4	1485.7	1547.5	1642.1	1754.8	1863.9	1991.2	2002.2	2120.4
12.5°	1314.8	1296.6	1336.6	1385.7	1491.2	1578.4	1716.7	1847.6	2020.3	2080.3	2216.7
15°	1249.3	1258.4	1296.6	1329.3	1416.6	1527.5	1689.4	1887.6	2069.4	2111.3	2318.6
17.5°	1222.0	1216.6	1245.7	1278.4	1385.7	1511.2	1678.5	1889.4	2113.1	2167.6	2387.7
20°	1234.8	1245.7	1236.6	1267.5	1334.8	1462.1	1694.8	1924.0	2145.8	2220.4	2462.2
22.5°	1434.8	1420.2	1347.5	1289.3	1292.9	1442.1	1682.1	1945.8	2174.9	2234.9	2513.1
25°	1956.7	1878.5	1698.5	1474.8	1327.5	1387.5	1667.6	1938.5	2169.5	2244.0	2544.1
27.5°	2482.2	2415.0	2238.6	1891.2	1467.5	1365.7	1616.6	1944.0	2142.2	2211.3	2493.1
30°	3036.9	3073.2	2811.4	2398.6	1834.9	1485.7	1583.9	1914.9	2124.0	2182.2	2504.1
32.5°	3606.1	3591.5	3433.3	2986.0	2360.4	1751.2	1636.6	1944.0	2147.6	2204.0	2567.7
35°	4051.6	4000.7	3840.6	3436.9	2795.0	2151.3	1818.5	2082.2	2251.3	2318.6	2658.6
37.5°	4271.6	4293.4	4200.7	3849.7	3271.5	2522.2	2045.8	2082.2	2284.0	2362.2	2805.9
40°	4442.6	4508.0	4473.5	4360.7	3744.3	2940.5	2296.7	2211.3	2449.5	2596.8	3082.3
42.5°	4648.1	4617.1	4820.8	4717.2	4362.6	3467.9	2736.8	2518.6	2840.5	2982.3	3497.0
45°	4757.2	4875.4	5029.9	5162.7	4935.4	4126.1	3311.5	3062.3	3438.8	3618.8	4113.4
47.5°	5037.2	5084.5	5335.4	5502.7	5400.9	4879.0	4184.3	3857.0	4191.6	4475.3	4819.0
50°	5200.9	5137.2	5488.2	5742.8	5801.0	5502.7	4966.3	4711.7	5086.3	5448.2	5479.1
52.5°	5057.2	5239.1	5590.0	6046.5	6208.3	6059.2	5884.6	5773.7	6037.4	6372.0	6222.9
55°	4553.5	4677.1	5531.8	6379.3	6901.2	6832.1	6993.9	6921.2	7186.7	7541.3	7092.1
57.5°	4148.0	4302.5	5053.6	6552.0	7546.7	7750.4	7954.1	7908.6	8228.7	8637.8	7828.6
60°	3895.2	3984.3	4708.1	6508.4	7928.6	8699.6	9159.7	8839.7	9361.6	9674.4	8405.0
62.5°	3456.9	3513.3	4204.3	5930.1	8043.2	9370.7	10150.8	9716.2	10169.0	10550.9	8819.7
65°	2771.4	2924.1	3495.1	5064.5	7286.7	9494.3	10769.1	10258.1	10696.3	10947.3	8945.1
66°	2522.2	2633.2	3156.9	4606.2	6855.7	9288.8	10665.4	10370.8	10772.7	11001.8	8752.4
67.5°	2093.1	2189.5	2605.9	3953.4	5973.7	8836.0	10738.2	10294.5	10830.9	10690.9	8494.2
70°	1385.7	1447.5	1782.1	2673.2	4160.7	7228.5	9959.9	9698.0	9521.6	8996.1	6641.1
72.5°	647.4	736.5	1112.9	1620.3	2440.4	5057.2	8121.4	7770.4	6677.5	5837.3	4189.8
75°	292.8	332.8	611.0	929.2	1094.7	2620.4	5239.1	4731.7	3324.2	2760.5	1834.9
77.5°	158.2	180.0	298.2	441.9	398.2	918.3	2593.2	2156.7	1047.4	767.4	532.8
80°	121.8	143.7	249.1	252.8	147.3	238.2	963.8	667.4	261.9	198.2	127.3
82.5°	63.6	90.9	196.4	163.7	74.6	96.4	298.2	185.5	81.8	65.5	54.6
85°	25.5	40.0	110.9	109.1	43.6	32.7	83.7	56.4	32.7	27.3	25.5
87.5°	1.8	1.8	60.0	41.8	27.3	9.1	12.7	12.7	16.4	14.5	18.2
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°	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6	1927.6
2.5°	1974.9	1996.7	2000.3	2060.3	2073.1	2060.3	2093.1	2087.6	2102.2	2091.3	2071.3
5°	2020.3	2051.3	2111.3	2156.7	2156.7	2120.4	2091.3	2053.1	1996.7	1982.2	1971.2
7.5°	2098.5	2196.7	2251.3	2222.2	2164.0	2027.6	1838.5	1700.3	1583.9	1540.3	1520.3
10°	2236.7	2291.3	2354.9	2236.7	1994.9	1705.7	1387.5	1178.4	1014.7	978.3	951.1
12.5°	2325.8	2413.1	2449.5	2156.7	1682.1	1251.1	905.6	669.2	554.6	467.4	452.8
15°	2442.2	2542.2	2467.7	1940.3	1325.7	820.1	469.2	292.8	238.2	223.7	223.7
17.5°	2522.2	2631.4	2393.1	1671.2	940.2	436.4	232.8	201.9	198.2	200.0	196.4
20°	2662.3	2727.7	2280.4	1358.4	561.9	223.7	187.3	180.0	176.4	181.8	178.2
22.5°	2715.0	2775.0	2096.7	983.8	252.8	149.1	140.0	134.6	138.2	136.4	134.6
25°	2711.4	2742.3	1794.8	563.7	74.6	58.2	52.7	52.7	49.1	50.9	49.1
27.5°	2738.6	2662.3	1456.6	167.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2753.2	2533.2	1036.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2760.5	2465.9	667.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2816.8	2331.3	285.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2855.0	2158.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3013.2	2104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3218.7	2002.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3504.2	1851.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3882.5	1762.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4164.3	1622.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4522.6	1538.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4948.1	1542.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5335.4	1516.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5533.7	1296.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5491.8	1049.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5346.4	823.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5246.3	729.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4942.6	583.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3933.4	400.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2502.2	245.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1152.9	112.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	361.9	69.1	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.6	43.6	14.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	30.9	12.7	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.9	12.7	5.5	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	7.3	3.6	3.6	1.8	0.0	0.0	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)