

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: P481804

Luminaire Tested: **IFLD-M-SA4B-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481804
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

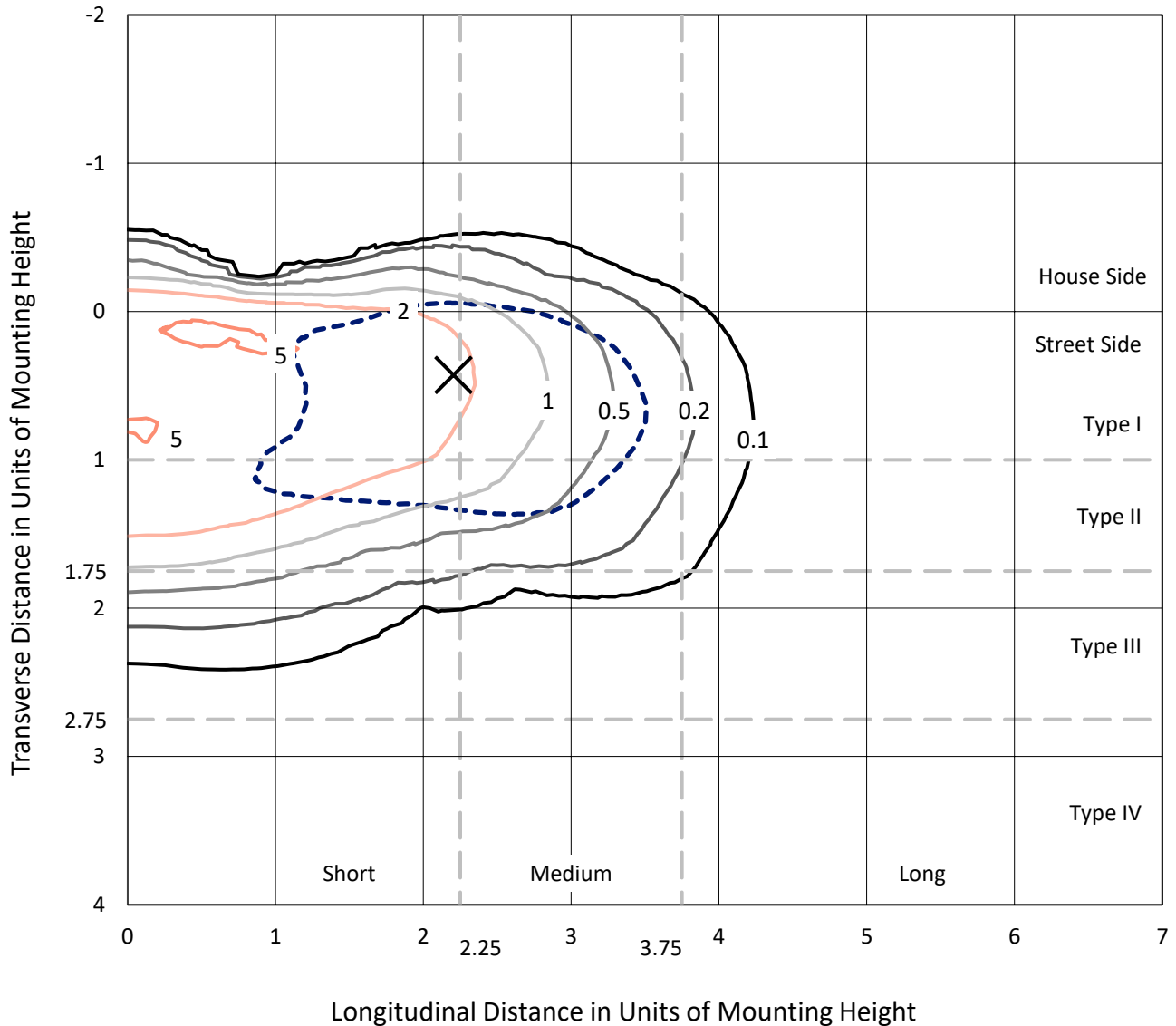
Lumens per Lamp: N/A
Luminaire Lumens: 12090.6 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
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

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Iso-Footcandle Lines of Horizontal Illumination

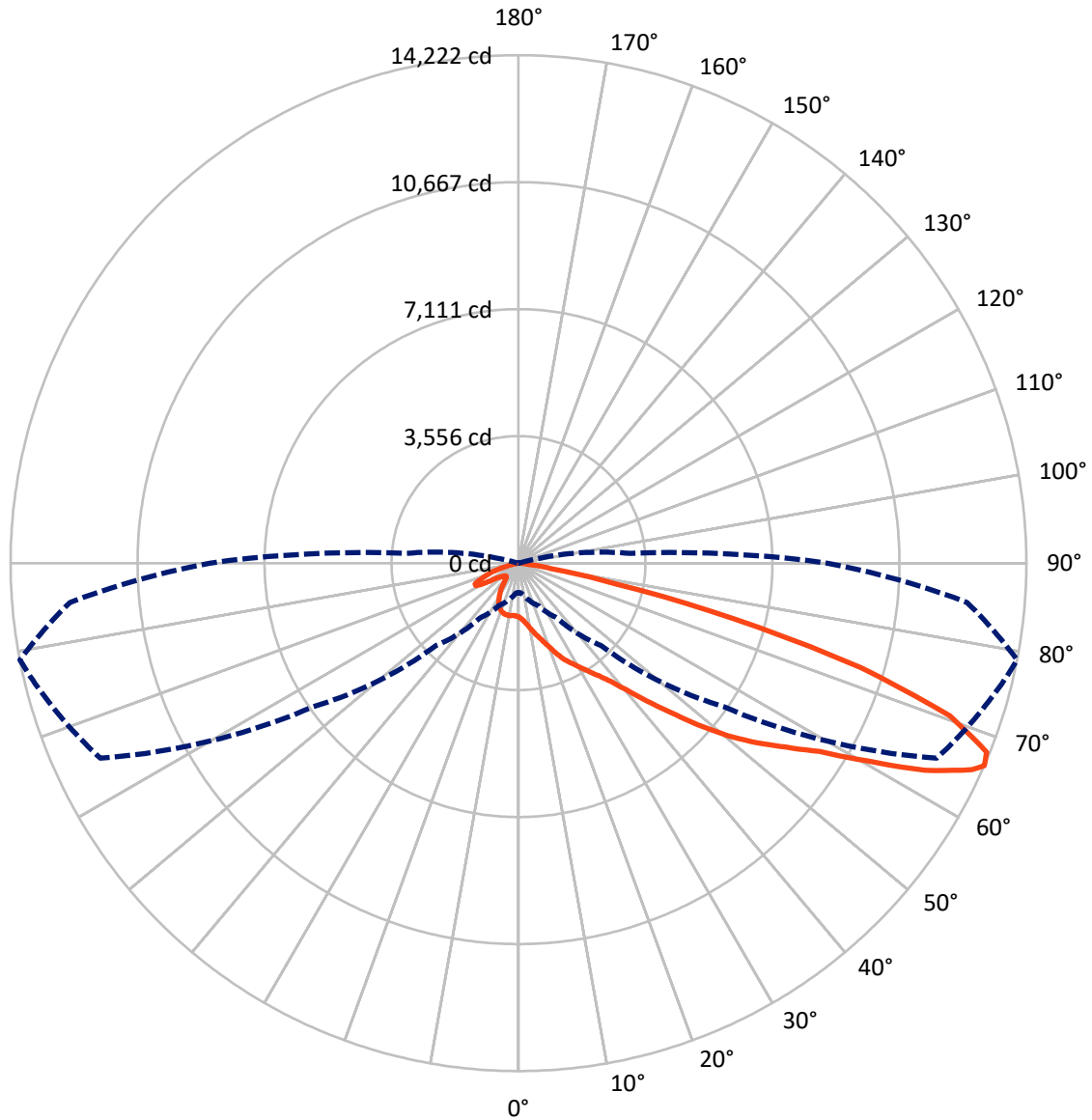
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	907.8	0.0	907.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11182.8	0.0	11182.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	12090.6	0.0	12090.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.2
10°-20°	391.5	3.2
20°-30°	650.4	5.4
30°-40°	1117.1	9.2
40°-50°	2023.8	16.7
50°-60°	3199.1	26.5
60°-70°	3255.3	26.9
70°-80°	1241.4	10.3
80°-90°	69.6	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°	12090.6	100.0
0°-180°	12090.6	100.0

Coefficient of Utilization



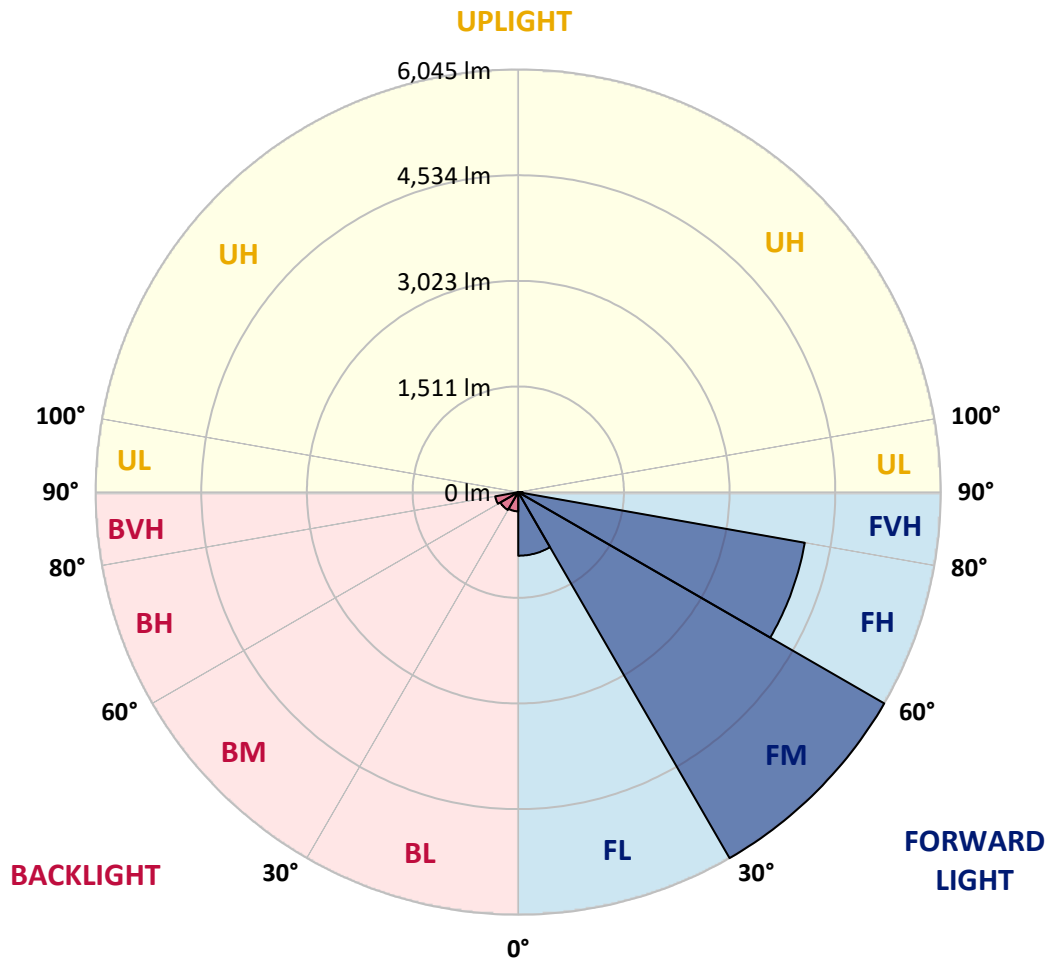
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.6	7.5			
FM (30°-60°)	6045.0	50.0			
FH (60°-80°)	4162.1	34.4			G2/5000
FVH (80°-90°)	66.0	0.5			G1/100
BL (0°-30°)	274.6	2.3	B1/500		
BM (30°-60°)	295.1	2.4	B1/1000		
BH (60°-80°)	334.7	2.8	B1/500		G1/500
BVH (80°-90°)	3.6	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°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1703.7	1701.8	1694.3	1681.3	1664.5	1658.9	1634.7	1601.1	1582.5	1562.0	1552.7
5°	1821.1	1811.8	1834.1	1824.8	1828.5	1783.8	1754.0	1729.8	1658.9	1631.0	1586.2
7.5°	1847.2	1856.5	1854.6	1869.6	1884.5	1901.2	1880.7	1845.3	1774.5	1733.5	1685.0
10°	1847.2	1843.5	1858.4	1878.9	1921.7	1959.0	2014.9	1968.3	1914.3	1865.8	1778.2
12.5°	1813.6	1808.0	1823.0	1865.8	1942.2	2018.7	2080.2	2124.9	2048.5	2009.3	1895.6
15°	1711.1	1705.5	1767.0	1843.5	1944.1	2069.0	2197.6	2270.3	2218.1	2156.6	2029.9
17.5°	1584.4	1591.8	1657.1	1783.8	1944.1	2093.2	2257.3	2415.7	2408.2	2329.9	2197.6
20°	1541.5	1547.1	1612.3	1703.7	1886.3	2110.0	2350.5	2574.1	2618.9	2525.7	2352.3
22.5°	1623.5	1617.9	1623.5	1679.4	1847.2	2095.1	2412.0	2754.9	2835.1	2762.4	2555.5
25°	1903.1	1899.4	1852.8	1767.0	1824.8	2061.5	2443.7	2874.2	3058.8	2991.7	2719.5
27.5°	2313.2	2298.3	2225.6	2046.6	1929.2	2082.0	2495.8	2989.8	3254.5	3178.1	2866.8
30°	2753.1	2717.7	2622.6	2398.9	2199.5	2158.5	2525.7	3075.5	3472.6	3375.6	2995.4
32.5°	3056.9	3103.5	3073.7	2846.3	2540.6	2335.5	2574.1	3183.6	3673.9	3610.5	3215.3
35°	3526.6	3580.7	3455.8	3254.5	2946.9	2617.0	2676.6	3271.2	3983.3	3877.0	3420.4
37.5°	4119.4	4160.4	4070.9	3688.8	3364.4	2963.7	2887.3	3453.9	4249.8	4199.5	3683.2
40°	4417.6	4615.2	4488.4	4143.6	3795.0	3448.3	3235.8	3668.3	4714.0	4672.9	4046.7
42.5°	4829.5	4928.3	4863.1	4607.7	4244.2	3966.5	3666.4	4085.8	5276.9	5276.9	4538.7
45°	5265.7	5269.4	5265.7	5056.9	4734.5	4590.9	4248.0	4609.6	5882.7	5949.8	5127.8
47.5°	5623.6	5735.4	5726.1	5601.2	5351.4	5297.4	4829.5	5206.0	6643.2	6760.6	5701.9
50°	5808.1	5933.0	5970.3	6035.5	6024.3	6138.0	5465.1	5897.6	7299.3	7588.2	6440.0
52.5°	5757.8	5767.1	5996.4	6253.6	6663.7	6982.4	6231.2	6682.3	8067.2	8352.4	7010.4
55°	5345.8	5310.4	5782.0	6076.5	6924.6	7498.7	7291.8	7660.9	8665.6	9099.9	7599.4
57.5°	4441.8	4451.1	4887.3	5485.6	6730.8	7703.7	8425.1	8939.6	9504.3	9942.4	8427.0
60°	3066.2	3055.0	3543.4	4234.9	5591.9	7321.6	9077.5	10596.6	10626.4	11247.1	9912.5
62.5°	1724.2	1727.9	2098.8	2689.7	3912.5	5983.3	9045.8	12356.2	12229.4	12773.7	11601.3
65°	976.7	1000.9	1256.3	1593.7	2343.0	4016.8	7780.2	13057.0	13465.2	13949.9	12626.5
66°	825.7	842.5	1060.6	1316.0	1869.6	3258.2	7002.9	12921.0	13853.0	14222.0	12606.0
67.5°	639.3	661.7	844.4	1043.8	1371.9	2255.4	5636.6	12244.4	13923.8	14140.0	12249.9
70°	438.0	452.9	592.7	792.2	937.6	1153.8	3370.0	10123.2	12633.9	12816.6	10646.9
72.5°	307.6	315.0	415.7	600.2	721.4	659.8	1672.0	7202.3	9668.4	10024.4	8281.6
75°	221.8	229.3	285.2	430.6	562.9	432.4	766.1	4600.3	5929.3	6208.9	4988.0
77.5°	160.3	169.6	193.9	277.7	408.2	303.8	376.5	2402.6	2795.9	2747.5	2145.4
80°	96.9	106.2	143.5	178.9	298.2	214.4	206.9	1002.8	991.6	941.3	674.8
82.5°	44.7	52.2	76.4	121.2	208.8	149.1	98.8	357.9	313.1	287.0	190.1
85°	13.0	16.8	44.7	91.3	106.2	72.7	59.6	123.0	128.6	110.0	63.4
87.5°	0.0	1.9	20.5	22.4	31.7	24.2	22.4	31.7	59.6	48.5	20.5
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°	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2	1504.2
2.5°	1519.1	1506.1	1474.4	1425.9	1383.1	1360.7	1329.0	1301.0	1286.1	1284.3	1282.4
5°	1556.4	1521.0	1444.6	1357.0	1291.7	1220.9	1172.4	1137.0	1103.5	1071.8	1090.4
7.5°	1606.7	1550.8	1425.9	1312.2	1170.6	1079.2	993.5	943.2	913.3	885.4	881.7
10°	1685.0	1614.2	1412.9	1207.8	1045.7	911.5	823.9	751.2	710.2	661.7	680.3
12.5°	1791.3	1664.5	1364.4	1112.8	904.0	762.4	637.5	520.0	454.8	404.5	406.3
15°	1897.5	1731.6	1319.7	997.2	775.4	589.0	406.3	326.2	307.6	296.4	300.1
17.5°	2001.9	1785.7	1250.7	879.8	628.2	374.7	296.4	279.6	270.3	259.1	259.1
20°	2128.6	1821.1	1165.0	771.7	432.4	277.7	253.5	242.3	227.4	212.5	214.4
22.5°	2251.7	1850.9	1066.2	633.7	290.8	240.5	212.5	197.6	184.5	169.6	169.6
25°	2374.7	1860.2	937.6	454.8	234.9	192.0	165.9	145.4	132.3	119.3	121.2
27.5°	2458.6	1802.4	816.4	290.8	188.3	145.4	115.6	98.8	87.6	74.6	74.6
30°	2507.0	1696.2	685.9	205.0	141.7	98.8	69.0	52.2	41.0	31.7	29.8
32.5°	2555.5	1610.5	538.7	156.6	93.2	52.2	26.1	9.3	0.0	0.0	0.0
35°	2652.4	1513.5	361.6	87.6	31.7	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2713.9	1379.3	165.9	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2868.6	1312.2	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3120.3	1265.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3396.1	1247.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3763.3	1297.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4151.0	1433.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4576.0	1562.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4946.9	1716.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5629.2	2082.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6853.8	2799.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8233.1	3332.8	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8738.2	3319.7	35.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8648.8	3137.0	35.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8184.6	2786.6	31.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7029.0	2302.0	31.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5358.9	1793.1	29.8	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3234.0	954.3	24.2	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1288.0	335.5	18.6	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	348.6	100.7	11.2	7.5	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	91.3	37.3	9.3	7.5	3.7	1.9	0.0	0.0	0.0	0.0	0.0
85°	35.4	14.9	7.5	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	5.6	3.7	3.7	1.9	1.9	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)