

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: P481551

Luminaire Tested: **IFLD-S-SA3C-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481551
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

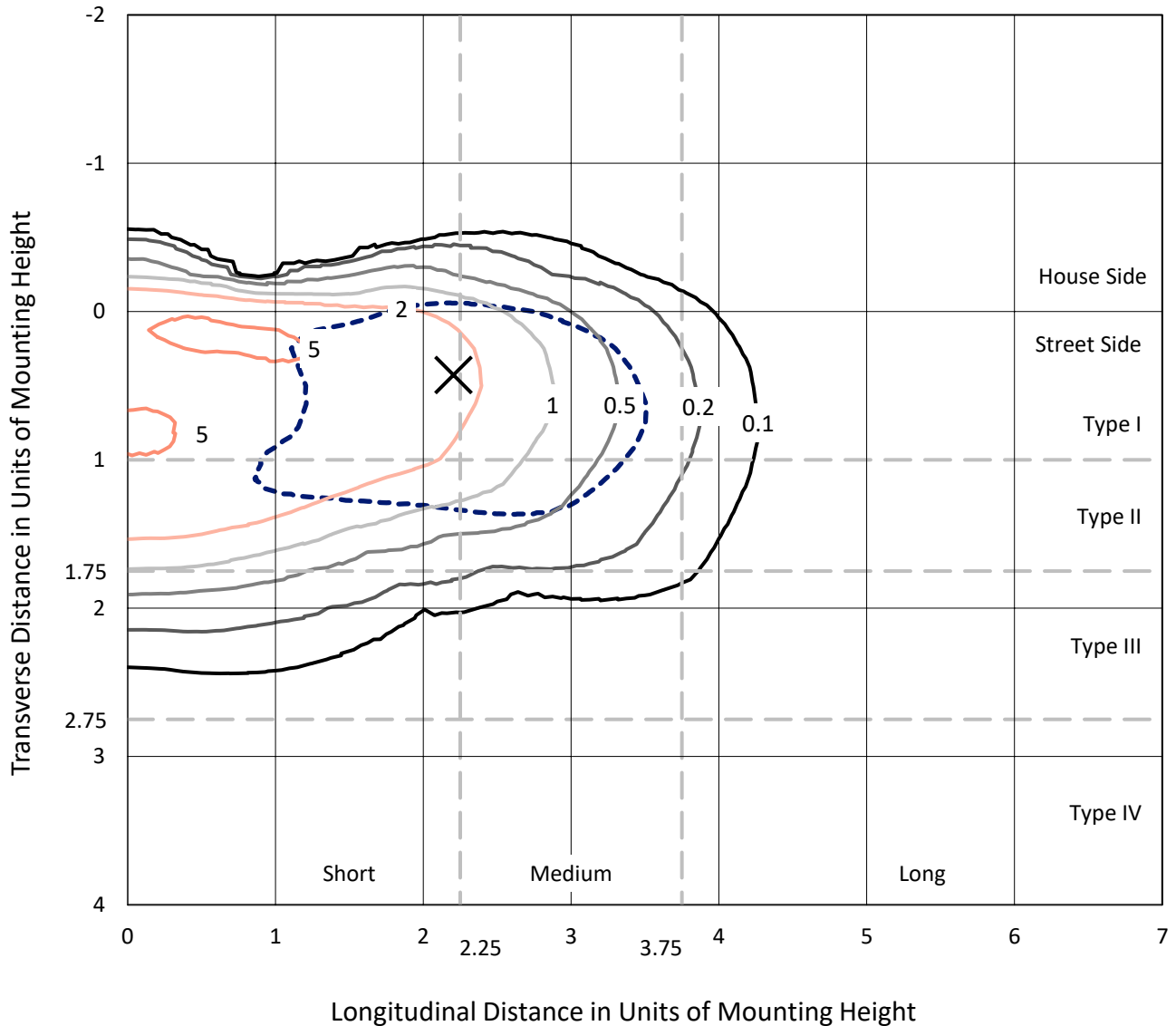
Lumens per Lamp: N/A
Luminaire Lumens: 12756.9 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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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Iso-Footcandle Lines of Horizontal Illumination

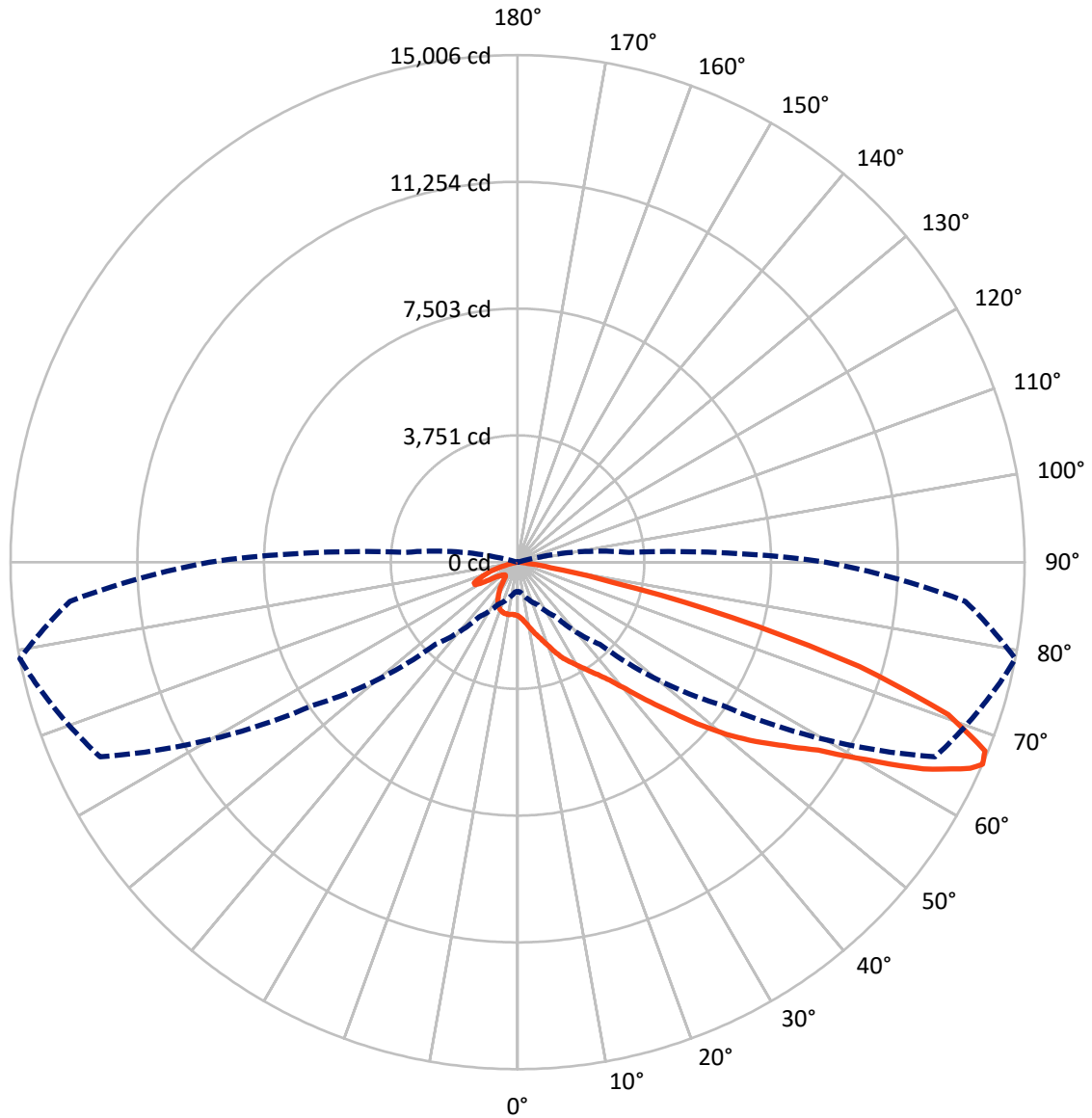
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	957.9	0.0	957.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11799.0	0.0	11799.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	12756.9	0.0	12756.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.2
10°-20°	413.1	3.2
20°-30°	686.2	5.4
30°-40°	1178.7	9.2
40°-50°	2135.4	16.7
50°-60°	3375.4	26.5
60°-70°	3434.7	26.9
70°-80°	1309.8	10.3
80°-90°	73.4	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°	12756.9	100.0
0°-180°	12756.9	100.0

Coefficient of Utilization



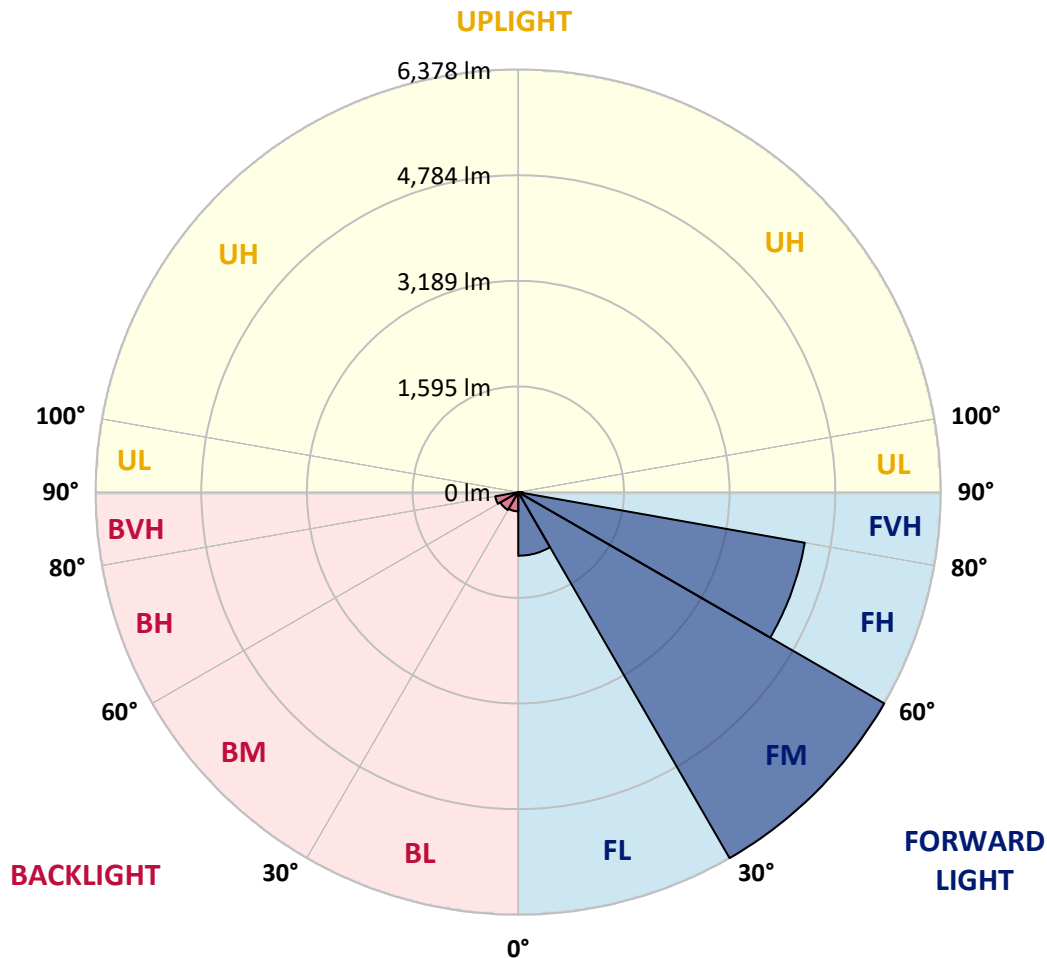
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.7	7.5			
FM (30°-60°)	6378.2	50.0			
FH (60°-80°)	4391.4	34.4			G2/5000
FVH (80°-90°)	69.7	0.5			G1/100
BL (0°-30°)	289.7	2.3	B1/500		
BM (30°-60°)	311.3	2.4	B1/1000		
BH (60°-80°)	353.1	2.8	B1/500		G1/500
BVH (80°-90°)	3.8	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°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1797.5	1795.6	1787.7	1773.9	1756.2	1750.3	1724.8	1689.4	1669.7	1648.1	1638.2
5°	1921.4	1911.6	1935.2	1925.4	1929.3	1882.1	1850.6	1825.1	1750.3	1720.8	1673.6
7.5°	1949.0	1958.8	1956.8	1972.6	1988.3	2006.0	1984.4	1947.0	1872.3	1829.0	1777.9
10°	1949.0	1945.0	1960.8	1982.4	2027.6	2067.0	2126.0	2076.8	2019.8	1968.6	1876.2
12.5°	1913.6	1907.7	1923.4	1968.6	2049.3	2129.9	2194.8	2242.0	2161.4	2120.1	2000.1
15°	1805.4	1799.5	1864.4	1945.0	2051.2	2183.0	2318.7	2395.4	2340.3	2275.4	2141.7
17.5°	1671.7	1679.5	1748.4	1882.1	2051.2	2208.6	2381.6	2548.8	2540.9	2458.3	2318.7
20°	1626.4	1632.3	1701.2	1797.5	1990.3	2226.3	2480.0	2716.0	2763.2	2664.8	2481.9
22.5°	1713.0	1707.1	1713.0	1772.0	1949.0	2210.5	2544.9	2906.8	2991.3	2914.6	2696.3
25°	2008.0	2004.0	1954.9	1864.4	1925.4	2175.1	2578.3	3032.6	3227.3	3156.5	2869.4
27.5°	2440.6	2424.9	2348.2	2159.4	2035.5	2196.8	2633.4	3154.6	3433.8	3353.2	3024.8
30°	2904.8	2867.4	2767.1	2531.1	2320.7	2277.4	2664.8	3245.0	3663.9	3561.7	3160.5
32.5°	3225.4	3274.5	3243.1	3003.1	2680.6	2464.2	2716.0	3359.1	3876.3	3809.5	3392.5
35°	3721.0	3778.0	3646.2	3433.8	3109.3	2761.2	2824.1	3451.5	4202.8	4090.7	3608.9
37.5°	4346.4	4389.6	4295.2	3892.1	3549.9	3127.0	3046.4	3644.3	4484.0	4430.9	3886.2
40°	4661.0	4869.5	4735.8	4371.9	4004.2	3638.4	3414.2	3870.4	4973.7	4930.5	4269.7
42.5°	5095.7	5199.9	5131.1	4861.6	4478.1	4185.1	3868.5	4311.0	5567.7	5567.7	4788.9
45°	5555.9	5559.8	5555.9	5335.6	4995.4	4843.9	4482.1	4863.6	6206.8	6277.6	5410.3
47.5°	5933.5	6051.5	6041.6	5909.9	5646.3	5589.3	5095.7	5492.9	7009.2	7133.1	6016.1
50°	6128.2	6259.9	6299.3	6368.1	6356.3	6476.3	5766.3	6222.6	7701.5	8006.3	6794.9
52.5°	6075.1	6084.9	6326.8	6598.2	7030.9	7367.2	6574.6	7050.5	8511.8	8812.7	7396.7
55°	5640.4	5603.1	6100.6	6411.4	7306.2	7911.9	7693.6	8083.0	9143.1	9601.3	8018.1
57.5°	4686.6	4696.4	5156.6	5787.9	7101.7	8128.3	8889.4	9432.2	10028.1	10490.3	8891.4
60°	3235.2	3223.4	3738.7	4468.3	5900.0	7725.1	9577.7	11180.6	11212.0	11866.9	10458.8
62.5°	1819.2	1823.1	2214.5	2837.9	4128.1	6313.0	9544.3	13037.1	12903.4	13477.6	12240.6
65°	1030.5	1056.1	1325.5	1681.5	2472.1	4238.2	8208.9	13776.6	14207.3	14718.6	13322.3
66°	871.2	888.9	1119.0	1388.5	1972.6	3437.8	7388.8	13633.0	14616.4	15005.8	13300.6
67.5°	674.6	698.2	890.9	1101.3	1447.5	2379.7	5947.2	12919.1	14691.1	14919.2	12925.0
70°	462.2	477.9	625.4	835.8	989.2	1217.4	3555.8	10681.0	13330.1	13522.9	11233.7
72.5°	324.5	332.4	438.6	633.3	761.1	696.2	1764.1	7599.2	10201.2	10576.8	8738.0
75°	234.0	241.9	300.9	454.3	593.9	456.3	808.3	4853.8	6256.0	6551.0	5262.8
77.5°	169.1	179.0	204.5	293.0	430.7	320.6	397.3	2535.0	2950.0	2898.9	2263.6
80°	102.3	112.1	151.4	188.8	314.7	226.2	218.3	1058.1	1046.3	993.2	711.9
82.5°	47.2	55.1	80.6	127.8	220.3	157.3	104.2	377.6	330.4	302.9	200.6
85°	13.8	17.7	47.2	96.4	112.1	76.7	62.9	129.8	135.7	116.0	66.9
87.5°	0.0	2.0	21.6	23.6	33.4	25.6	23.6	33.4	62.9	51.1	21.6
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°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1602.8	1589.1	1555.6	1504.5	1459.3	1435.7	1402.2	1372.7	1357.0	1355.0	1353.1
5°	1642.2	1604.8	1524.2	1431.7	1362.9	1288.2	1237.0	1199.7	1164.3	1130.8	1150.5
7.5°	1695.3	1636.3	1504.5	1384.5	1235.1	1138.7	1048.2	995.1	963.7	934.2	930.2
10°	1777.9	1703.1	1490.7	1274.4	1103.3	961.7	869.3	792.6	749.3	698.2	717.8
12.5°	1890.0	1756.2	1439.6	1174.1	953.8	804.4	672.6	548.7	479.9	426.8	428.7
15°	2002.1	1827.0	1392.4	1052.2	818.1	621.5	428.7	344.2	324.5	312.7	316.6
17.5°	2112.2	1884.1	1319.6	928.3	662.8	395.3	312.7	295.0	285.2	273.4	273.4
20°	2245.9	1921.4	1229.2	814.2	456.3	293.0	267.5	255.7	239.9	224.2	226.2
22.5°	2375.7	1952.9	1124.9	668.7	306.8	253.7	224.2	208.5	194.7	179.0	179.0
25°	2505.5	1962.7	989.2	479.9	247.8	202.6	175.0	153.4	139.6	125.9	127.8
27.5°	2594.0	1901.8	861.4	306.8	198.6	153.4	121.9	104.2	92.4	78.7	78.7
30°	2645.2	1789.7	723.7	216.3	149.5	104.2	72.8	55.1	43.3	33.4	31.5
32.5°	2696.3	1699.2	568.4	165.2	98.3	55.1	27.5	9.8	0.0	0.0	0.0
35°	2798.6	1596.9	381.5	92.4	33.4	2.0	0.0	0.0	0.0	0.0	0.0
37.5°	2863.5	1455.3	175.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3026.7	1384.5	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3292.2	1335.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3583.3	1315.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3970.7	1368.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4379.8	1512.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4828.2	1648.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5219.6	1811.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5939.4	2196.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7231.5	2954.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8686.8	3516.4	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9219.8	3502.7	37.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9125.4	3309.9	37.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8635.7	2940.2	33.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7416.3	2428.8	33.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5654.2	1891.9	31.5	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3412.2	1006.9	25.6	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1359.0	354.0	19.7	7.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	367.8	106.2	11.8	7.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.4	39.3	9.8	7.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
85°	37.4	15.7	7.9	5.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
87.5°	11.8	5.9	5.9	3.9	3.9	2.0	2.0	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)