

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: P481667

Luminaire Tested: **IFLD-S-SA3B-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481667
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

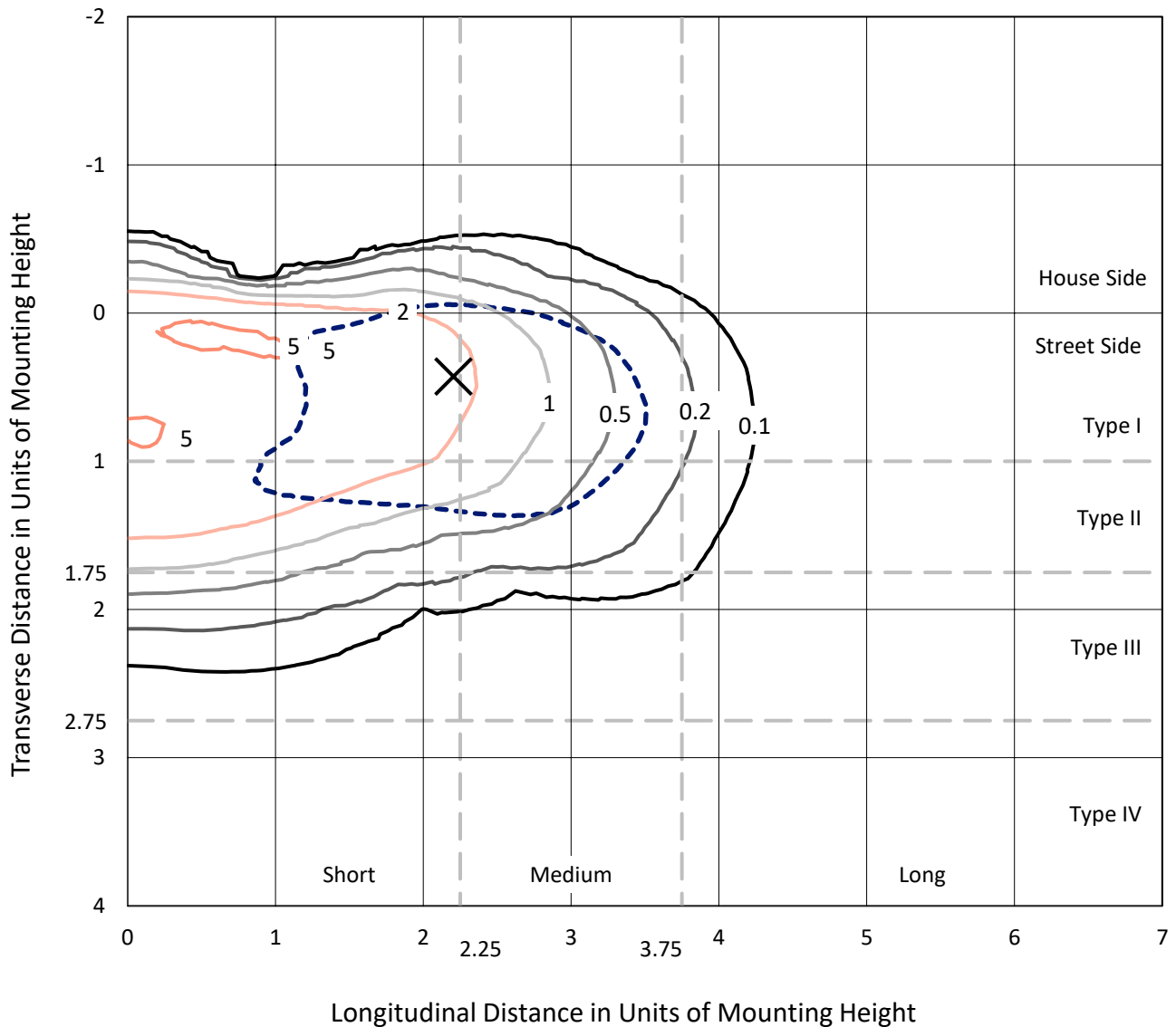
Lumens per Lamp: N/A
Luminaire Lumens: 12253.8 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

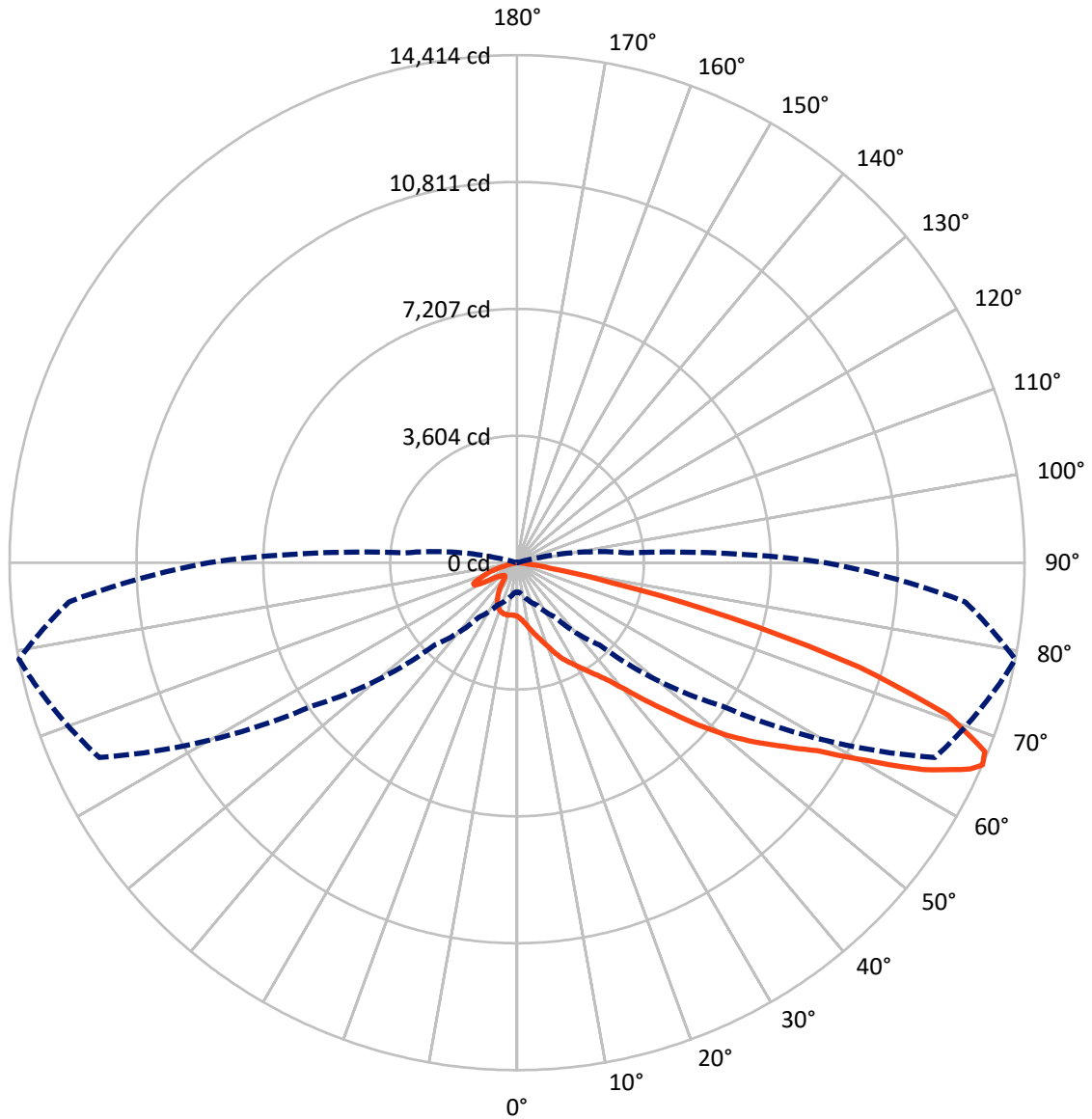
× Max cd
 - - - 1/2 Max cd



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	920.1	0.0	920.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11333.7	0.0	11333.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	12253.8	0.0	12253.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	1.2
10°-20°	396.8	3.2
20°-30°	659.2	5.4
30°-40°	1132.2	9.2
40°-50°	2051.2	16.7
50°-60°	3242.3	26.5
60°-70°	3299.3	26.9
70°-80°	1258.2	10.3
80°-90°	70.5	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°	12253.8	100.0
0°-180°	12253.8	100.0

Coefficient of Utilization

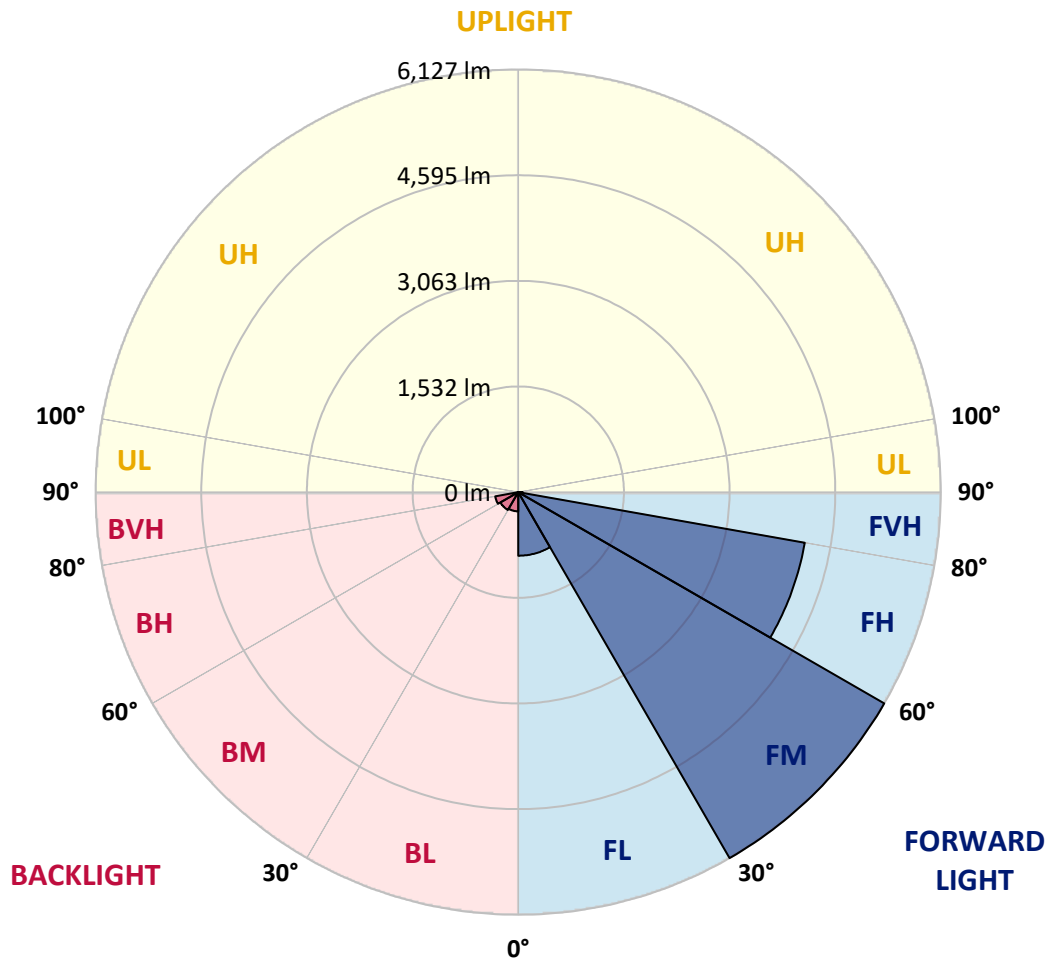


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.9	7.5			
FM (30°-60°)	6126.6	50.0			
FH (60°-80°)	4218.3	34.4			G2/5000
FVH (80°-90°)	66.9	0.5			G1/100
BL (0°-30°)	278.3	2.3	B1/500		
BM (30°-60°)	299.0	2.4	B1/1000		
BH (60°-80°)	339.2	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°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1726.7	1724.8	1717.2	1704.0	1687.0	1681.3	1656.8	1622.8	1603.9	1583.1	1573.6
5°	1845.7	1836.2	1858.9	1849.4	1853.2	1807.9	1777.7	1753.1	1681.3	1653.0	1607.6
7.5°	1872.1	1881.6	1879.7	1894.8	1909.9	1926.9	1906.1	1870.2	1798.4	1756.9	1707.8
10°	1872.1	1868.3	1883.4	1904.2	1947.7	1985.5	2042.1	1994.9	1940.1	1891.0	1802.2
12.5°	1838.1	1832.4	1847.6	1891.0	1968.5	2045.9	2108.3	2153.6	2076.1	2036.5	1921.2
15°	1734.2	1728.5	1790.9	1868.3	1970.3	2096.9	2227.3	2300.9	2248.0	2185.7	2057.2
17.5°	1605.7	1613.3	1679.4	1807.9	1970.3	2121.5	2287.7	2448.3	2440.7	2361.4	2227.3
20°	1562.3	1568.0	1634.1	1726.7	1911.8	2138.5	2382.2	2608.9	2654.2	2559.8	2384.1
22.5°	1645.4	1639.8	1645.4	1702.1	1872.1	2123.4	2444.5	2792.1	2873.3	2799.7	2590.0
25°	1928.8	1925.0	1877.8	1790.9	1849.4	2089.4	2476.6	2913.0	3100.0	3032.0	2756.2
27.5°	2344.4	2329.3	2255.6	2074.2	1955.2	2110.1	2529.5	3030.1	3298.4	3220.9	2905.5
30°	2790.2	2754.3	2658.0	2431.3	2229.2	2187.6	2559.8	3117.0	3519.4	3421.2	3035.8
32.5°	3098.2	3145.4	3115.2	2884.7	2574.9	2367.1	2608.9	3226.6	3723.4	3659.2	3258.7
35°	3574.2	3629.0	3502.4	3298.4	2986.7	2652.3	2712.8	3315.4	4037.0	3929.4	3466.5
37.5°	4174.9	4216.5	4125.8	3738.6	3409.9	3003.7	2926.2	3500.5	4307.2	4256.2	3732.9
40°	4477.2	4677.5	4549.0	4199.5	3846.2	3494.9	3279.5	3717.8	4777.6	4736.0	4101.3
42.5°	4894.7	4994.8	4928.7	4669.9	4301.5	4020.0	3715.9	4140.9	5348.1	5348.1	4600.0
45°	5336.8	5340.5	5336.8	5125.2	4798.4	4652.9	4305.3	4671.8	5962.1	6030.1	5197.0
47.5°	5699.5	5812.8	5803.4	5676.8	5423.7	5368.9	4894.7	5276.3	6732.8	6851.8	5778.8
50°	5886.5	6013.1	6050.8	6117.0	6105.6	6220.9	5538.9	5977.2	7397.8	7690.6	6526.9
52.5°	5835.5	5844.9	6077.3	6338.0	6753.6	7076.6	6315.3	6772.5	8176.1	8465.1	7105.0
55°	5418.0	5382.1	5860.0	6158.5	7018.1	7599.9	7390.2	7764.3	8782.5	9222.7	7701.9
57.5°	4501.8	4511.2	4953.3	5559.7	6821.6	7807.7	8538.8	9060.2	9632.6	10076.5	8540.7
60°	3107.6	3096.3	3591.2	4292.1	5667.3	7420.4	9200.0	10739.6	10769.9	11398.9	10046.3
62.5°	1747.4	1751.2	2127.1	2726.0	3965.3	6064.1	9167.9	12523.0	12394.5	12946.1	11757.9
65°	989.9	1014.5	1273.3	1615.2	2374.6	4071.0	7885.2	13233.3	13647.0	14138.1	12796.9
66°	836.9	853.9	1074.9	1333.7	1894.8	3302.2	7097.4	13095.4	14039.9	14414.0	12776.1
67.5°	648.0	670.6	855.8	1057.9	1390.4	2285.8	5712.7	12409.6	14111.7	14330.8	12415.3
70°	443.9	459.1	600.7	802.9	950.2	1169.4	3415.5	10259.8	12804.4	12989.6	10790.6
72.5°	311.7	319.3	421.3	608.3	731.1	668.7	1694.5	7299.5	9798.8	10159.7	8393.3
75°	224.8	232.4	289.0	436.4	570.5	438.3	776.4	4662.3	6009.3	6292.6	5055.3
77.5°	162.5	171.9	196.5	281.5	413.7	307.9	381.6	2435.1	2833.7	2784.6	2174.4
80°	98.2	107.7	145.5	181.4	302.3	217.2	209.7	1016.3	1005.0	954.0	683.9
82.5°	45.3	52.9	77.5	122.8	211.6	151.1	100.1	362.7	317.4	290.9	192.7
85°	13.2	17.0	45.3	92.6	107.7	73.7	60.5	124.7	130.3	111.5	64.2
87.5°	0.0	1.9	20.8	22.7	32.1	24.6	22.7	32.1	60.5	49.1	20.8
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°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1539.6	1526.4	1494.3	1445.2	1401.7	1379.1	1346.9	1318.6	1303.5	1301.6	1299.7
5°	1577.4	1541.5	1464.1	1375.3	1309.2	1237.4	1188.3	1152.4	1118.4	1086.2	1105.1
7.5°	1628.4	1571.7	1445.2	1329.9	1186.4	1093.8	1006.9	955.9	925.7	897.3	893.6
10°	1707.8	1636.0	1431.9	1224.1	1059.8	923.8	835.0	761.3	719.8	670.6	689.5
12.5°	1815.4	1687.0	1382.8	1127.8	916.2	772.6	646.1	527.1	460.9	409.9	411.8
15°	1923.1	1755.0	1337.5	1010.7	785.9	597.0	411.8	330.6	311.7	300.4	304.1
17.5°	2028.9	1809.8	1267.6	891.7	636.6	379.7	300.4	283.4	273.9	262.6	262.6
20°	2157.4	1845.7	1180.7	782.1	438.3	281.5	256.9	245.6	230.5	215.4	217.2
22.5°	2282.1	1875.9	1080.6	642.3	294.7	243.7	215.4	200.2	187.0	171.9	171.9
25°	2406.7	1885.3	950.2	460.9	238.0	194.6	168.1	147.4	134.1	120.9	122.8
27.5°	2491.7	1826.8	827.4	294.7	190.8	147.4	117.1	100.1	88.8	75.6	75.6
30°	2540.9	1719.1	695.2	207.8	143.6	100.1	69.9	52.9	41.6	32.1	30.2
32.5°	2590.0	1632.2	546.0	158.7	94.5	52.9	26.4	9.4	0.0	0.0	0.0
35°	2688.2	1534.0	366.5	88.8	32.1	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2750.6	1397.9	168.1	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2907.3	1329.9	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3162.4	1282.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3442.0	1263.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3814.1	1314.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4207.1	1452.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4637.8	1583.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5013.7	1739.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5705.1	2110.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6946.3	2837.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8344.2	3377.7	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8856.2	3364.5	35.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8765.5	3179.4	35.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8295.1	2824.2	32.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7123.9	2333.1	32.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5431.2	1817.3	30.2	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3277.6	967.2	24.6	9.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1305.4	340.0	18.9	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	353.3	102.0	11.3	7.6	5.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	92.6	37.8	9.4	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	35.9	15.1	7.6	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0
87.5°	11.3	5.7	5.7	3.8	3.8	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)