

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: P481513

Luminaire Tested: **IFLD-S-SA3D-722-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

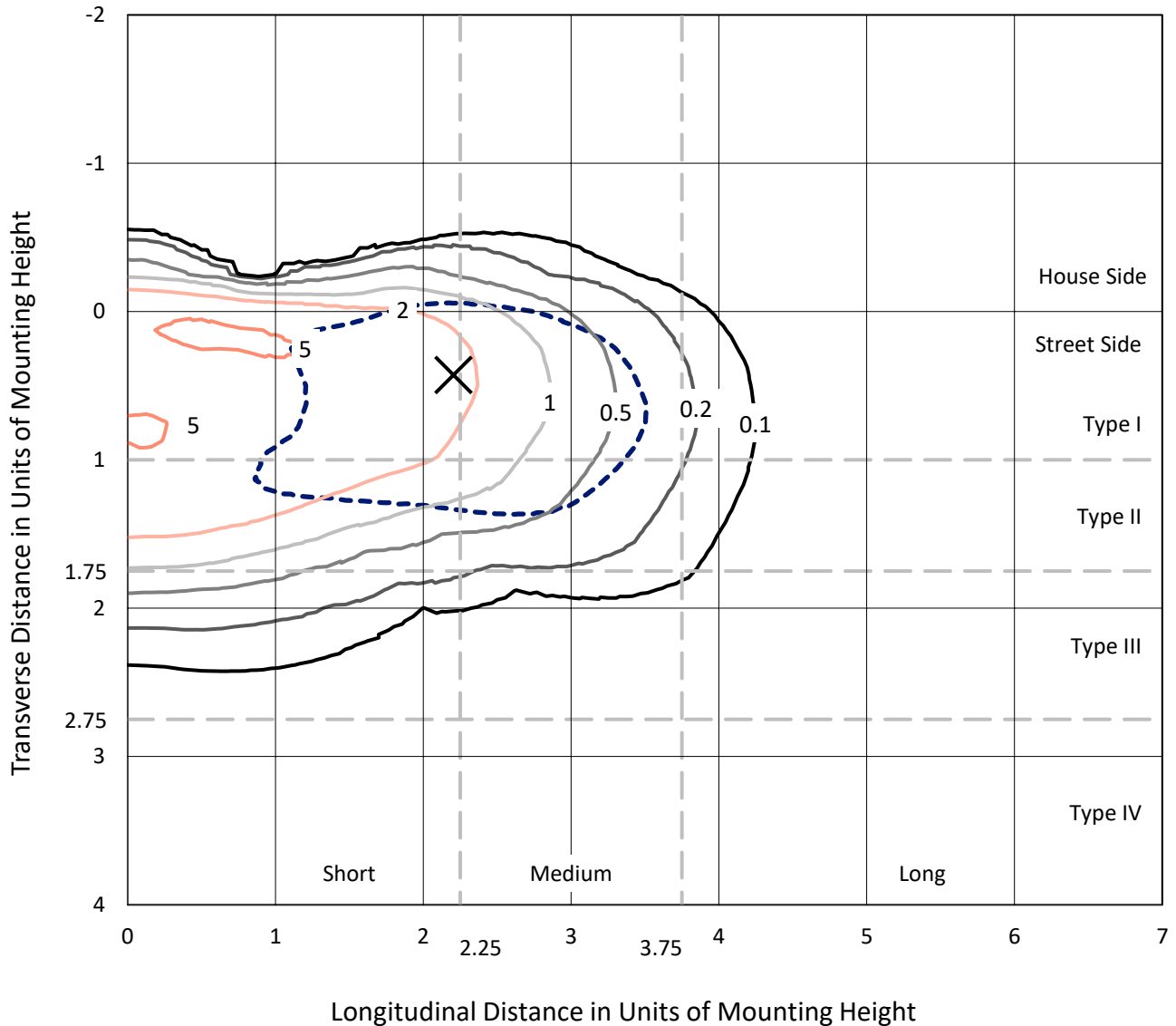
Lumens per Lamp: N/A
Luminaire Lumens: 12363.3 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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

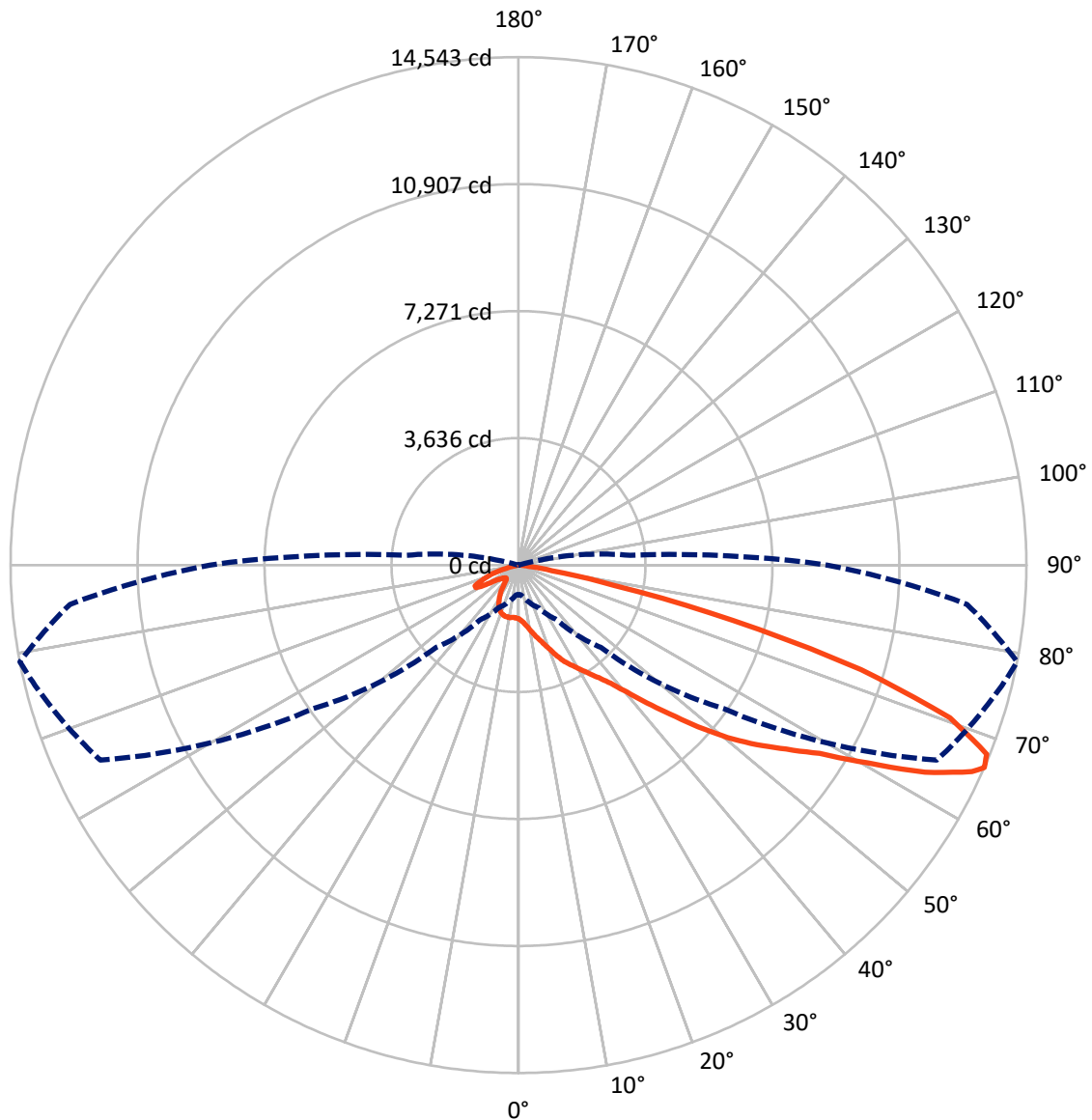
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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	928.3	0.0	928.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11435.0	0.0	11435.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	12363.3	0.0	12363.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	1.2
10°-20°	400.3	3.2
20°-30°	665.1	5.4
30°-40°	1142.3	9.2
40°-50°	2069.5	16.7
50°-60°	3271.3	26.5
60°-70°	3328.7	26.9
70°-80°	1269.4	10.3
80°-90°	71.2	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°	12363.3	100.0
0°-180°	12363.3	100.0

Coefficient of Utilization



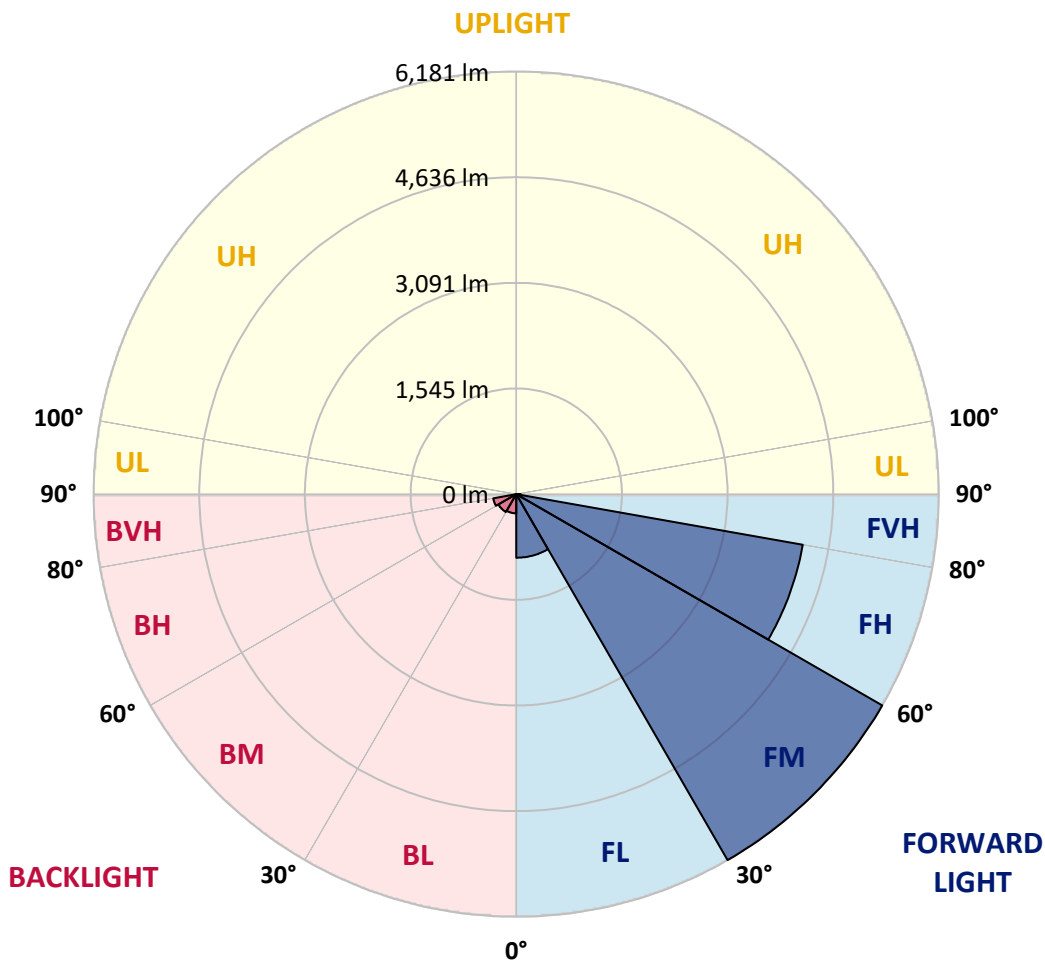
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.1	7.5			
FM (30°-60°)	6181.4	50.0			
FH (60°-80°)	4256.0	34.4			G2/5000
FVH (80°-90°)	67.5	0.5			G1/100
BL (0°-30°)	280.7	2.3	B1/500		
BM (30°-60°)	301.7	2.4	B1/1000		
BH (60°-80°)	342.2	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°	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1
2.5°	1742.1	1740.2	1732.6	1719.2	1702.1	1696.3	1671.6	1637.3	1618.2	1597.2	1587.7
5°	1862.2	1852.6	1875.5	1866.0	1869.8	1824.0	1793.5	1768.8	1696.3	1667.8	1622.0
7.5°	1888.8	1898.4	1896.5	1911.7	1927.0	1944.1	1923.2	1886.9	1814.5	1772.6	1723.0
10°	1888.8	1885.0	1900.3	1921.2	1965.1	2003.2	2060.4	2012.7	1957.5	1907.9	1818.3
12.5°	1854.5	1848.8	1864.1	1907.9	1986.1	2064.2	2127.1	2172.8	2094.7	2054.7	1938.4
15°	1749.7	1744.0	1806.9	1885.0	1988.0	2115.7	2247.2	2321.5	2268.1	2205.2	2075.6
17.5°	1620.1	1627.7	1694.4	1824.0	1988.0	2140.4	2308.2	2470.2	2462.6	2382.5	2247.2
20°	1576.3	1582.0	1648.7	1742.1	1928.9	2157.6	2403.5	2632.2	2677.9	2582.6	2405.4
22.5°	1660.1	1654.4	1660.1	1717.3	1888.8	2142.3	2466.4	2817.1	2899.0	2824.7	2613.1
25°	1946.0	1942.2	1894.6	1806.9	1866.0	2108.0	2498.8	2939.1	3127.7	3059.1	2780.9
27.5°	2365.3	2350.1	2275.8	2092.8	1972.7	2129.0	2552.1	3057.2	3327.9	3249.7	2931.4
30°	2815.2	2778.9	2681.7	2453.0	2249.1	2207.1	2582.6	3144.9	3550.9	3451.8	3062.9
32.5°	3125.8	3173.5	3143.0	2910.5	2597.9	2388.2	2632.2	3255.4	3756.7	3691.9	3287.9
35°	3606.2	3661.4	3533.7	3327.9	3013.4	2676.0	2737.0	3345.0	4073.1	3964.5	3497.5
37.5°	4212.3	4254.2	4162.7	3772.0	3440.3	3030.5	2952.4	3531.8	4345.7	4294.2	3766.3
40°	4517.2	4719.3	4589.6	4237.0	3880.6	3526.1	3308.8	3751.0	4820.3	4778.3	4137.9
42.5°	4938.4	5039.5	4972.8	4711.6	4340.0	4056.0	3749.1	4178.0	5395.9	5395.9	4641.1
45°	5384.5	5388.3	5384.5	5171.0	4841.2	4694.5	4343.8	4713.5	6015.3	6084.0	5243.4
47.5°	5750.4	5864.8	5855.2	5727.5	5472.1	5416.9	4938.4	5323.5	6793.0	6913.1	5830.5
50°	5939.1	6066.8	6104.9	6171.6	6160.2	6276.5	5588.4	6030.6	7463.9	7759.3	6585.2
52.5°	5887.6	5897.2	6131.6	6394.6	6814.0	7139.9	6371.8	6833.0	8249.2	8540.8	7168.5
55°	5466.4	5430.2	5912.4	6213.6	7080.8	7667.8	7456.3	7833.7	8861.0	9305.1	7770.8
57.5°	4542.0	4551.5	4997.5	5609.4	6882.6	7877.5	8615.1	9141.2	9718.7	10166.6	8617.0
60°	3135.4	3123.9	3623.3	4330.4	5718.0	7486.8	9282.2	10835.6	10866.1	11500.8	10136.1
62.5°	1763.1	1766.9	2146.2	2750.4	4000.7	6118.3	9249.8	12634.9	12505.3	13061.8	11862.9
65°	998.7	1023.5	1284.6	1629.6	2395.8	4107.4	7955.6	13351.5	13768.9	14264.5	12911.2
66°	844.4	861.5	1084.5	1345.6	1911.7	3331.7	7160.8	13212.4	14165.4	14542.8	12890.3
67.5°	653.8	676.6	863.4	1067.4	1402.8	2306.3	5763.7	12520.5	14237.8	14458.9	12526.2
70°	447.9	463.2	606.1	810.1	958.7	1179.8	3446.0	10351.5	12918.9	13105.7	10887.1
72.5°	314.5	322.1	425.0	613.7	737.6	674.7	1709.7	7364.8	9886.4	10250.5	8468.4
75°	226.8	234.4	291.6	440.3	575.6	442.2	783.4	4704.0	6063.0	6348.9	5100.5
77.5°	163.9	173.4	198.2	284.0	417.4	310.7	385.0	2456.8	2859.0	2809.4	2193.8
80°	99.1	108.6	146.8	183.0	305.0	219.2	211.6	1025.4	1014.0	962.5	690.0
82.5°	45.7	53.4	78.1	123.9	213.5	152.5	101.0	366.0	320.2	293.5	194.4
85°	13.3	17.2	45.7	93.4	108.6	74.3	61.0	125.8	131.5	112.5	64.8
87.5°	0.0	1.9	21.0	22.9	32.4	24.8	22.9	32.4	61.0	49.6	21.0
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°	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1	1538.1
2.5°	1553.4	1540.0	1507.6	1458.1	1414.3	1391.4	1359.0	1330.4	1315.1	1313.2	1311.3
5°	1591.5	1555.3	1477.2	1387.6	1320.9	1248.4	1198.9	1162.7	1128.4	1096.0	1115.0
7.5°	1643.0	1585.8	1458.1	1341.8	1197.0	1103.6	1015.9	964.4	933.9	905.4	901.5
10°	1723.0	1650.6	1444.7	1235.1	1069.3	932.0	842.5	768.1	726.2	676.6	695.7
12.5°	1831.7	1702.1	1395.2	1137.9	924.4	779.6	651.9	531.8	465.1	413.6	415.5
15°	1940.3	1770.7	1349.4	1019.7	792.9	602.3	415.5	333.6	314.5	303.1	306.9
17.5°	2047.0	1825.9	1278.9	899.6	642.3	383.1	303.1	285.9	276.4	264.9	264.9
20°	2176.7	1862.2	1191.3	789.1	442.2	284.0	259.2	247.8	232.5	217.3	219.2
22.5°	2302.4	1892.7	1090.2	648.0	297.3	245.9	217.3	202.0	188.7	173.4	173.4
25°	2428.2	1902.2	958.7	465.1	240.2	196.3	169.6	148.7	135.3	122.0	123.9
27.5°	2514.0	1843.1	834.8	297.3	192.5	148.7	118.2	101.0	89.6	76.2	76.2
30°	2563.6	1734.5	701.4	209.7	144.9	101.0	70.5	53.4	41.9	32.4	30.5
32.5°	2613.1	1646.8	550.8	160.1	95.3	53.4	26.7	9.5	0.0	0.0	0.0
35°	2712.2	1547.7	369.8	89.6	32.4	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2775.1	1410.4	169.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2933.3	1341.8	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3190.6	1294.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3472.7	1275.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3848.2	1326.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4244.7	1465.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4679.2	1597.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5058.5	1755.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5756.1	2129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7008.4	2862.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8418.8	3407.9	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8935.3	3394.6	36.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8843.8	3207.8	36.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8369.2	2849.5	32.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7187.5	2353.9	32.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5479.8	1833.6	30.5	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3306.9	975.9	24.8	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1317.0	343.1	19.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	356.4	102.9	11.4	7.6	5.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	93.4	38.1	9.5	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	36.2	15.2	7.6	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0
87.5°	11.4	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)