

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: P481647

Luminaire Tested: **IFLD-M-SA4A-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481647
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

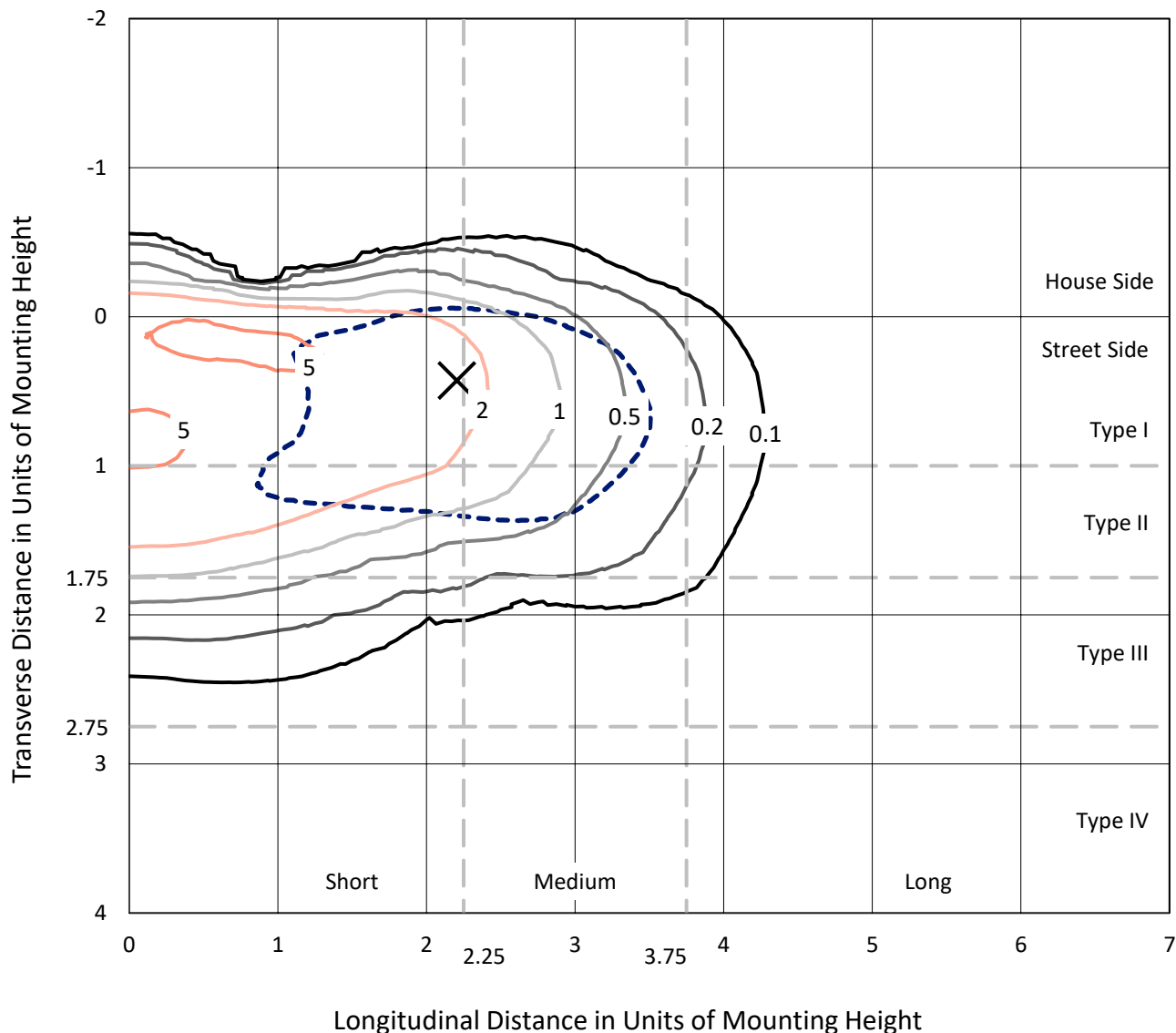
Lumens per Lamp: N/A
Luminaire Lumens: 13116.9 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

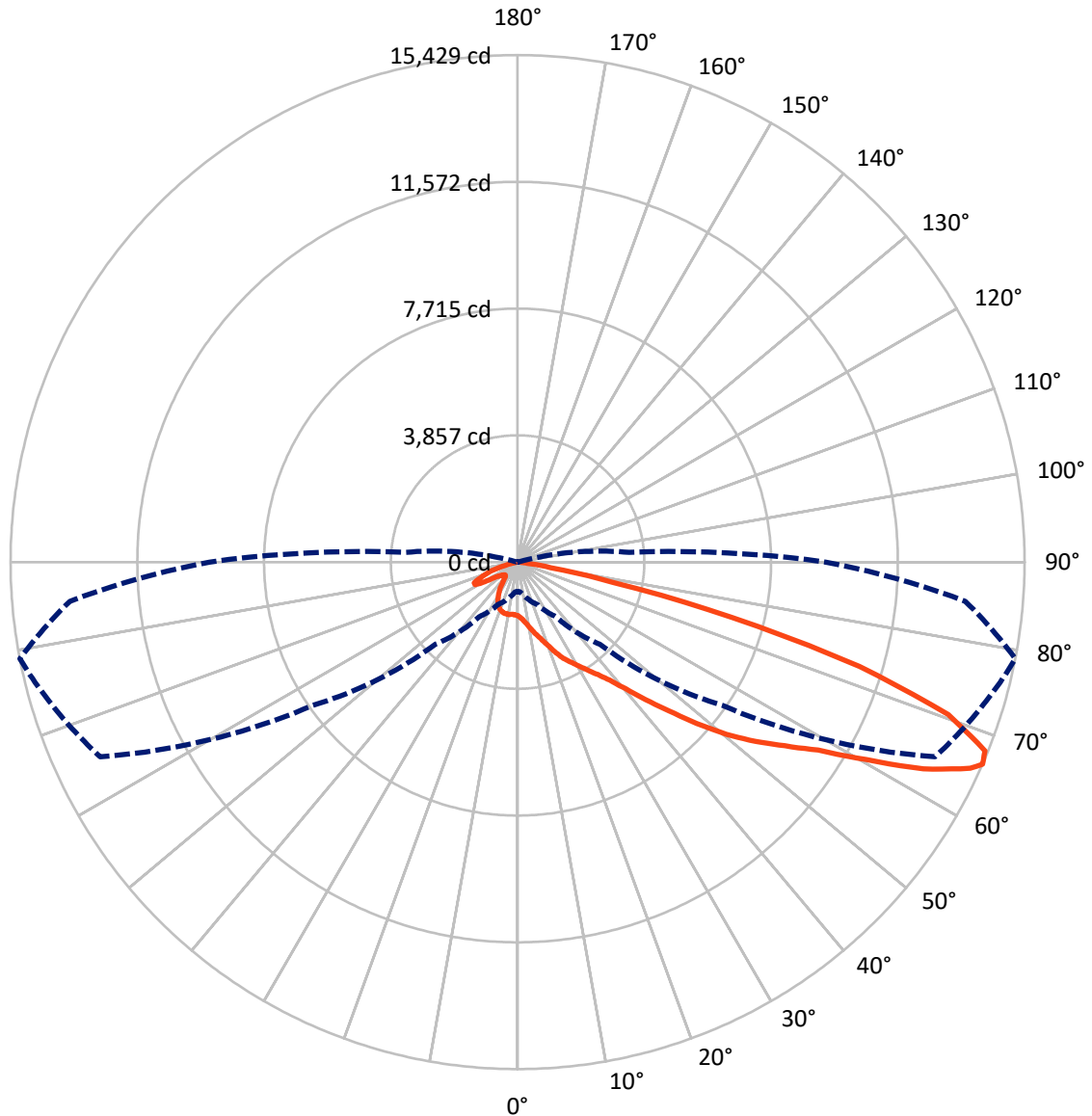
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	984.9	0.0	984.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12132.0	0.0	12132.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	13116.9	0.0	13116.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	1.2
10°-20°	424.7	3.2
20°-30°	705.6	5.4
30°-40°	1212.0	9.2
40°-50°	2195.6	16.7
50°-60°	3470.6	26.5
60°-70°	3531.6	26.9
70°-80°	1346.8	10.3
80°-90°	75.5	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°	13116.9	100.0
0°-180°	13116.9	100.0

Coefficient of Utilization

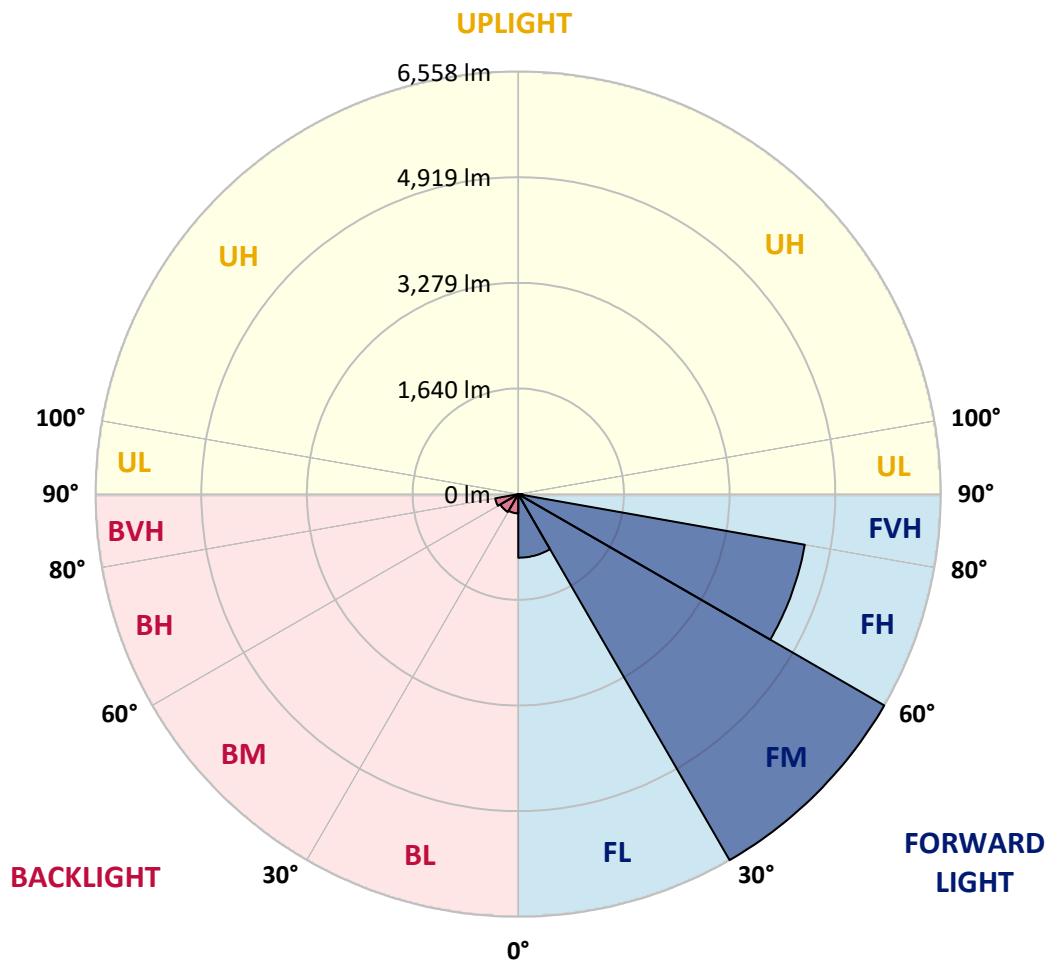


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.8	7.5			
FM (30°-60°)	6558.1	50.0			
FH (60°-80°)	4515.4	34.4			G2/5000
FVH (80°-90°)	71.6	0.5			G1/100
BL (0°-30°)	297.9	2.3	B1/500		
BM (30°-60°)	320.1	2.4	B1/1000		
BH (60°-80°)	363.1	2.8	B1/500		G1/500
BVH (80°-90°)	3.9	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°	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9
2.5°	1848.3	1846.2	1838.2	1824.0	1805.8	1799.7	1773.4	1737.0	1716.8	1694.6	1684.5
5°	1975.7	1965.6	1989.8	1979.7	1983.8	1935.2	1902.9	1876.6	1799.7	1769.4	1720.9
7.5°	2004.0	2014.1	2012.1	2028.2	2044.4	2062.6	2040.4	2002.0	1925.1	1880.6	1828.0
10°	2004.0	1999.9	2016.1	2038.4	2084.9	2125.3	2186.0	2135.4	2076.8	2024.2	1929.2
12.5°	1967.6	1961.5	1977.7	2024.2	2107.1	2190.0	2256.7	2305.3	2222.4	2179.9	2056.6
15°	1856.4	1850.3	1917.0	1999.9	2109.1	2244.6	2384.1	2463.0	2406.4	2339.7	2202.1
17.5°	1718.8	1726.9	1797.7	1935.2	2109.1	2270.9	2448.9	2620.7	2612.6	2527.7	2384.1
20°	1672.3	1678.4	1749.2	1848.3	2046.4	2289.1	2550.0	2792.6	2841.2	2740.0	2552.0
22.5°	1761.3	1755.2	1761.3	1822.0	2004.0	2272.9	2616.7	2988.8	3075.7	2996.9	2772.4
25°	2064.6	2060.6	2010.0	1917.0	1979.7	2236.5	2651.1	3118.2	3318.4	3245.6	2950.4
27.5°	2509.5	2493.3	2414.5	2220.3	2093.0	2258.8	2707.7	3243.6	3530.7	3447.8	3110.1
30°	2986.8	2948.3	2845.2	2602.5	2386.2	2341.7	2740.0	3336.6	3767.3	3662.2	3249.6
32.5°	3316.4	3366.9	3334.6	3087.9	2756.2	2533.8	2792.6	3453.9	3985.7	3917.0	3488.3
35°	3826.0	3884.6	3749.1	3530.7	3197.1	2839.1	2903.8	3548.9	4321.4	4206.1	3710.7
37.5°	4469.0	4513.5	4416.4	4001.9	3650.0	3215.3	3132.3	3747.1	4610.6	4556.0	3995.8
40°	4792.6	5006.9	4869.4	4495.3	4117.1	3741.0	3510.5	3979.6	5114.1	5069.6	4390.1
42.5°	5239.5	5346.6	5275.9	4998.8	4604.5	4303.2	3977.6	4432.6	5724.8	5724.8	4924.0
45°	5712.6	5716.7	5712.6	5486.2	5136.3	4980.6	4608.5	5000.8	6382.0	6454.8	5563.0
47.5°	6100.9	6222.2	6212.1	6076.6	5805.7	5747.0	5239.5	5647.9	7207.0	7334.4	6185.8
50°	6301.1	6436.6	6477.0	6547.8	6535.7	6659.0	5929.0	6398.2	7918.8	8232.3	6986.6
52.5°	6246.5	6256.6	6505.3	6784.4	7229.3	7575.1	6760.1	7249.5	8752.0	9061.4	7605.4
55°	5799.6	5761.2	6272.8	6592.3	7512.4	8135.2	7910.7	8311.1	9401.1	9872.3	8244.4
57.5°	4818.8	4829.0	5302.1	5951.3	7302.1	8357.6	9140.2	9698.3	10311.1	10786.3	9142.3
60°	3326.5	3314.3	3844.2	4594.4	6066.5	7943.1	9848.0	11496.1	11528.4	12201.8	10753.9
62.5°	1870.5	1874.6	2277.0	2918.0	4244.5	6491.2	9813.6	13405.0	13267.5	13858.0	12586.0
65°	1059.6	1085.9	1362.9	1729.0	2541.9	4357.8	8440.6	14165.3	14608.2	15134.0	13698.2
66°	895.8	914.0	1150.6	1427.7	2028.2	3534.8	7597.3	14017.7	15028.8	15429.2	13676.0
67.5°	693.6	717.9	916.0	1132.4	1488.3	2446.8	6115.1	13283.7	15105.6	15340.2	13289.7
70°	475.2	491.4	643.1	859.4	1017.2	1251.7	3656.1	10982.4	13706.3	13904.5	11550.7
72.5°	333.7	341.7	450.9	651.1	782.6	715.8	1813.9	7813.7	10489.0	10875.3	8984.5
75°	240.6	248.7	309.4	467.1	610.7	469.1	831.1	4990.7	6432.5	6735.9	5411.3
77.5°	173.9	184.0	210.3	301.3	442.9	329.6	408.5	2606.6	3033.3	2980.7	2327.5
80°	105.2	115.3	155.7	194.1	323.5	232.6	224.5	1087.9	1075.8	1021.2	732.0
82.5°	48.5	56.6	82.9	131.4	226.5	161.8	107.2	388.3	339.7	311.4	206.3
85°	14.2	18.2	48.5	99.1	115.3	78.9	64.7	133.5	139.5	119.3	68.8
87.5°	0.0	2.0	22.2	24.3	34.4	26.3	24.3	34.4	64.7	52.6	22.2
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°	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9	1631.9
2.5°	1648.1	1633.9	1599.5	1547.0	1500.5	1476.2	1441.8	1411.5	1395.3	1393.3	1391.3
5°	1688.5	1650.1	1567.2	1472.1	1401.4	1324.5	1271.9	1233.5	1197.1	1162.8	1183.0
7.5°	1743.1	1682.4	1547.0	1423.6	1269.9	1170.8	1077.8	1023.2	990.9	960.5	956.5
10°	1828.0	1751.2	1532.8	1310.4	1134.4	988.8	893.8	814.9	770.4	717.9	738.1
12.5°	1943.3	1805.8	1480.2	1207.2	980.8	827.1	691.6	564.2	493.4	438.8	440.8
15°	2058.6	1878.6	1431.7	1081.9	841.2	639.0	440.8	353.9	333.7	321.5	325.6
17.5°	2171.8	1937.2	1356.9	954.5	681.5	406.5	321.5	303.3	293.2	281.1	281.1
20°	2309.3	1975.7	1263.9	837.2	469.1	301.3	275.0	262.9	246.7	230.5	232.6
22.5°	2442.8	2008.0	1156.7	687.5	315.5	260.9	230.5	214.4	200.2	184.0	184.0
25°	2576.3	2018.1	1017.2	493.4	254.8	208.3	180.0	157.7	143.6	129.4	131.4
27.5°	2667.2	1955.4	885.7	315.5	204.2	157.7	125.4	107.2	95.0	80.9	80.9
30°	2719.8	1840.2	744.2	222.4	153.7	107.2	74.8	56.6	44.5	34.4	32.4
32.5°	2772.4	1747.2	584.4	169.9	101.1	56.6	28.3	10.1	0.0	0.0	0.0
35°	2877.6	1642.0	392.3	95.0	34.4	2.0	0.0	0.0	0.0	0.0	0.0
37.5°	2944.3	1496.4	180.0	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3112.1	1423.6	44.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3385.1	1373.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3684.4	1352.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4082.8	1407.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4503.4	1555.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4964.4	1694.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5366.9	1862.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6107.0	2258.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7435.5	3037.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8931.9	3615.6	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9480.0	3601.5	38.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9382.9	3403.3	38.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8879.4	3023.2	34.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7625.6	2497.4	34.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5813.8	1945.3	32.4	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3508.5	1035.4	26.3	10.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1397.3	364.0	20.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	378.1	109.2	12.1	8.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	99.1	40.4	10.1	8.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	38.4	16.2	8.1	6.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
87.5°	12.1	6.1	6.1	4.0	4.0	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)