

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: P481648

Luminaire Tested: **IFLD-M-SA4B-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481648
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

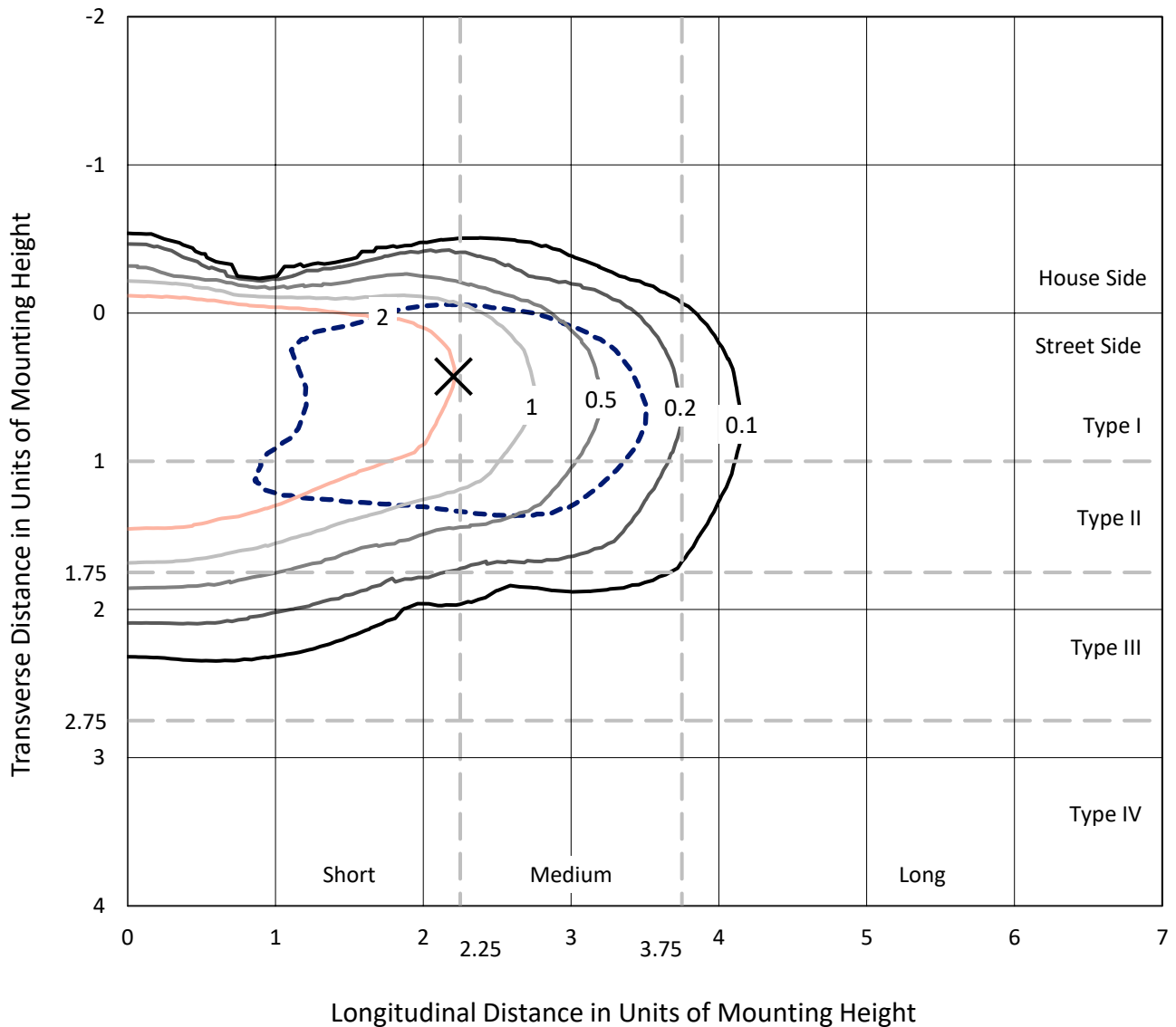
Lumens per Lamp: N/A
Luminaire Lumens: 16222.2 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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

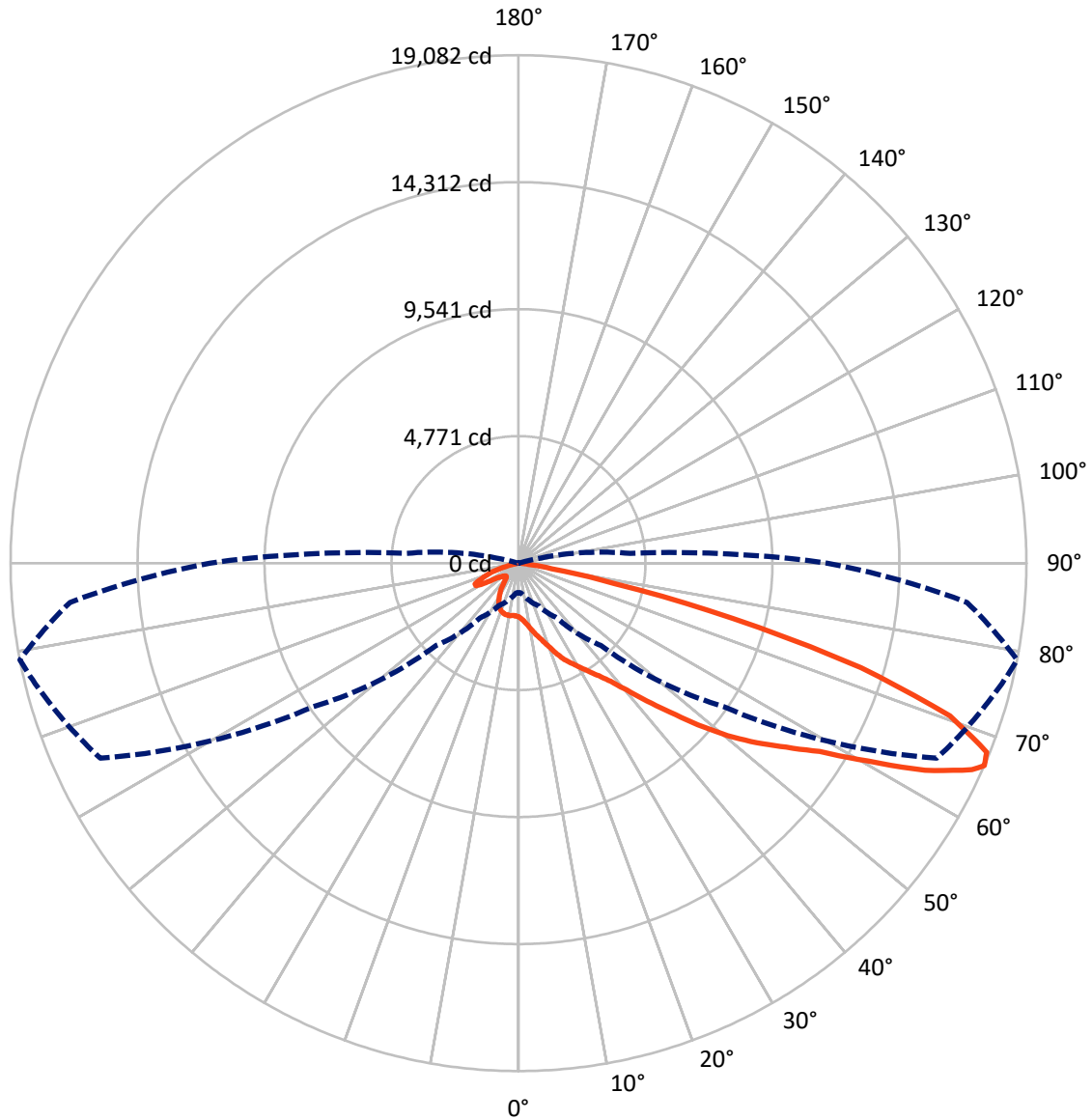
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1218.1	0.0	1218.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15004.2	0.0	15004.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	16222.2	0.0	16222.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	1.2
10°-20°	525.3	3.2
20°-30°	872.7	5.4
30°-40°	1498.9	9.2
40°-50°	2715.4	16.7
50°-60°	4292.3	26.5
60°-70°	4367.7	26.9
70°-80°	1665.6	10.3
80°-90°	93.4	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°	16222.2	100.0
0°-180°	16222.2	100.0

Coefficient of Utilization

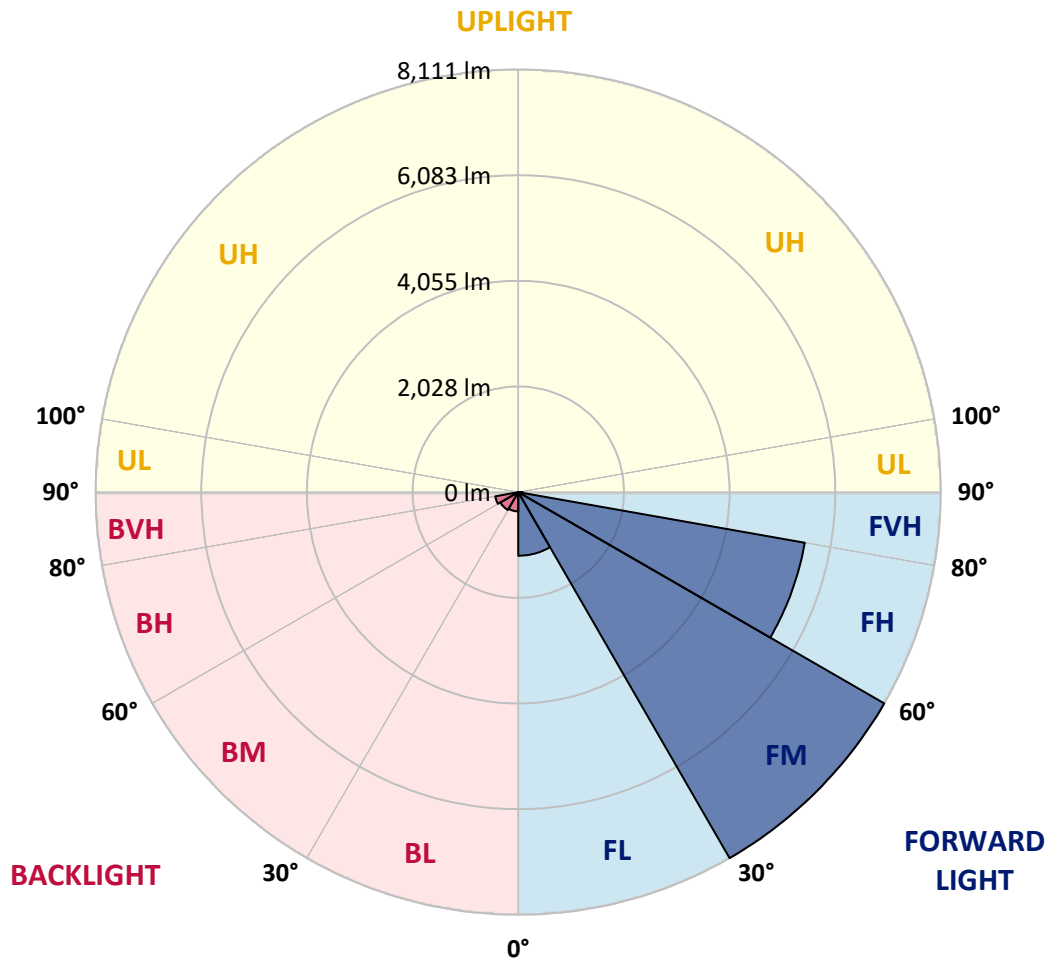


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.4	7.5			
FM (30°-60°)	8110.7	50.0			
FH (60°-80°)	5584.4	34.4			G3/7500
FVH (80°-90°)	88.6	0.5			G1/100
BL (0°-30°)	368.4	2.3	B1/500		
BM (30°-60°)	395.9	2.4	B1/1000		
BH (60°-80°)	449.0	2.8	B1/500		G1/500
BVH (80°-90°)	4.8	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2
2.5°	2285.8	2283.3	2273.3	2255.8	2233.3	2225.8	2193.3	2148.3	2123.3	2095.8	2083.3
5°	2443.4	2430.9	2460.9	2448.4	2453.4	2393.4	2353.4	2320.9	2225.8	2188.3	2128.3
7.5°	2478.4	2490.9	2488.4	2508.4	2528.4	2550.9	2523.4	2475.9	2380.9	2325.9	2260.8
10°	2478.4	2473.4	2493.4	2520.9	2578.4	2628.5	2703.5	2641.0	2568.4	2503.4	2385.9
12.5°	2433.4	2425.9	2445.9	2503.4	2606.0	2708.5	2791.0	2851.0	2748.5	2696.0	2543.4
15°	2295.8	2288.3	2370.9	2473.4	2608.5	2776.0	2948.6	3046.1	2976.1	2893.6	2723.5
17.5°	2125.8	2135.8	2223.3	2393.4	2608.5	2808.5	3028.6	3241.2	3231.2	3126.1	2948.6
20°	2068.3	2075.8	2163.3	2285.8	2530.9	2831.0	3153.7	3453.8	3513.8	3388.7	3156.2
22.5°	2178.3	2170.8	2178.3	2253.3	2478.4	2811.0	3236.2	3696.4	3803.9	3706.4	3428.8
25°	2553.4	2548.4	2485.9	2370.9	2448.4	2766.0	3278.7	3856.4	4104.0	4014.0	3648.8
27.5°	3103.6	3083.6	2986.1	2746.0	2588.4	2793.5	3348.7	4011.5	4366.6	4264.1	3846.4
30°	3693.9	3646.3	3518.8	3218.7	2951.1	2896.1	3388.7	4126.5	4659.2	4529.2	4019.0
32.5°	4101.5	4164.0	4124.0	3818.9	3408.7	3133.6	3453.8	4271.6	4929.3	4844.3	4314.1
35°	4731.7	4804.3	4636.7	4366.6	3953.9	3511.3	3591.3	4389.1	5344.5	5201.9	4589.2
37.5°	5527.0	5582.0	5462.0	4949.3	4514.2	3976.5	3873.9	4634.2	5702.1	5634.6	4941.8
40°	5927.2	6192.3	6022.2	5559.5	5091.9	4626.7	4341.6	4921.8	6324.8	6269.8	5429.5
42.5°	6479.9	6612.4	6524.9	6182.3	5694.6	5322.0	4919.3	5482.0	7080.1	7080.1	6089.7
45°	7065.1	7070.1	7065.1	6785.0	6352.3	6159.8	5699.6	6184.8	7892.9	7982.9	6880.0
47.5°	7545.3	7695.3	7682.8	7515.3	7180.1	7107.6	6479.9	6985.1	8913.3	9070.8	7650.3
50°	7792.9	7960.4	8010.4	8098.0	8083.0	8235.5	7332.7	7912.9	9793.6	10181.2	8640.7
52.5°	7725.3	7737.8	8045.4	8390.6	8940.8	9368.4	8360.6	8965.8	10824.0	11206.6	9405.9
55°	7172.6	7125.1	7757.8	8153.0	9290.9	10061.2	9783.6	10278.8	11626.8	12209.5	10196.2
57.5°	5959.7	5972.2	6557.4	7360.2	9030.8	10336.3	11304.1	11994.4	12752.2	13339.9	11306.6
60°	4114.0	4099.0	4754.2	5682.1	7502.7	9823.6	12179.5	14217.7	14257.7	15090.5	13299.9
62.5°	2313.3	2318.3	2816.0	3608.8	5249.4	8027.9	12136.9	16578.6	16408.5	17138.8	15565.7
65°	1310.5	1343.0	1685.6	2138.3	3143.7	5389.5	10438.8	17518.9	18066.6	18716.9	16941.2
66°	1107.9	1130.4	1423.0	1765.6	2508.4	4371.6	9395.9	17336.4	18586.8	19082.0	16913.7
67.5°	857.8	887.8	1132.9	1400.5	1840.7	3026.1	7562.8	16428.5	18681.8	18972.0	16436.0
70°	587.7	607.7	795.3	1062.9	1258.0	1548.1	4521.7	13582.5	16951.2	17196.3	14285.2
72.5°	412.7	422.7	557.7	805.3	967.9	885.3	2243.3	9663.5	12972.3	13449.9	11111.6
75°	297.6	307.6	382.6	577.7	755.3	580.2	1027.9	6172.3	7955.4	8330.6	6692.5
77.5°	215.1	227.6	260.1	372.6	547.7	407.6	505.2	3223.7	3751.4	3686.4	2878.6
80°	130.0	142.6	192.6	240.1	400.1	287.6	277.6	1345.5	1330.5	1263.0	905.3
82.5°	60.0	70.0	102.5	162.6	280.1	200.1	132.5	480.2	420.2	385.1	255.1
85°	17.5	22.5	60.0	122.5	142.6	97.5	80.0	165.1	172.6	147.6	85.0
87.5°	0.0	2.5	27.5	30.0	42.5	32.5	30.0	42.5	80.0	65.0	27.5
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°	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2	2018.2
2.5°	2038.2	2020.7	1978.2	1913.2	1855.7	1825.7	1783.2	1745.6	1725.6	1723.1	1720.6
5°	2088.3	2040.7	1938.2	1820.7	1733.1	1638.1	1573.1	1525.6	1480.5	1438.0	1463.0
7.5°	2155.8	2080.8	1913.2	1760.6	1570.6	1448.0	1333.0	1265.5	1225.4	1187.9	1182.9
10°	2260.8	2165.8	1895.7	1620.6	1403.0	1222.9	1105.4	1007.9	952.8	887.8	912.8
12.5°	2403.4	2233.3	1830.7	1493.0	1212.9	1022.9	855.3	697.8	610.2	542.7	545.2
15°	2545.9	2323.4	1770.6	1338.0	1040.4	790.3	545.2	437.7	412.7	397.6	402.6
17.5°	2686.0	2395.9	1678.1	1180.4	842.8	502.7	397.6	375.1	362.6	347.6	347.6
20°	2856.0	2443.4	1563.1	1035.4	580.2	372.6	340.1	325.1	305.1	285.1	287.6
22.5°	3021.1	2483.4	1430.5	850.3	390.1	322.6	285.1	265.1	247.6	227.6	227.6
25°	3186.2	2495.9	1258.0	610.2	315.1	257.6	222.6	195.1	177.6	160.1	162.6
27.5°	3298.7	2418.4	1095.4	390.1	252.6	195.1	155.1	132.5	117.5	100.0	100.0
30°	3363.7	2275.8	920.3	275.1	190.1	132.5	92.5	70.0	55.0	42.5	40.0
32.5°	3428.8	2160.8	722.8	210.1	125.0	70.0	35.0	12.5	0.0	0.0	0.0
35°	3558.8	2030.7	485.2	117.5	42.5	2.5	0.0	0.0	0.0	0.0	0.0
37.5°	3641.3	1850.7	222.6	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3848.9	1760.6	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4186.5	1698.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4556.7	1673.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5049.4	1740.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5569.5	1923.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6139.8	2095.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6637.4	2303.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7552.8	2793.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9195.9	3756.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11046.5	4471.6	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11724.3	4454.1	47.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11604.3	4209.0	47.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10981.5	3738.9	42.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9431.0	3088.6	42.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7190.1	2405.9	40.0	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	4339.1	1280.5	32.5	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1728.1	450.2	25.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	467.7	135.0	15.0	10.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	122.5	50.0	12.5	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
85°	47.5	20.0	10.0	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
87.5°	15.0	7.5	7.5	5.0	5.0	2.5	2.5	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)