

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: P482234

Luminaire Tested: **IFLD-M-SA4C-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482234
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17761.8 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

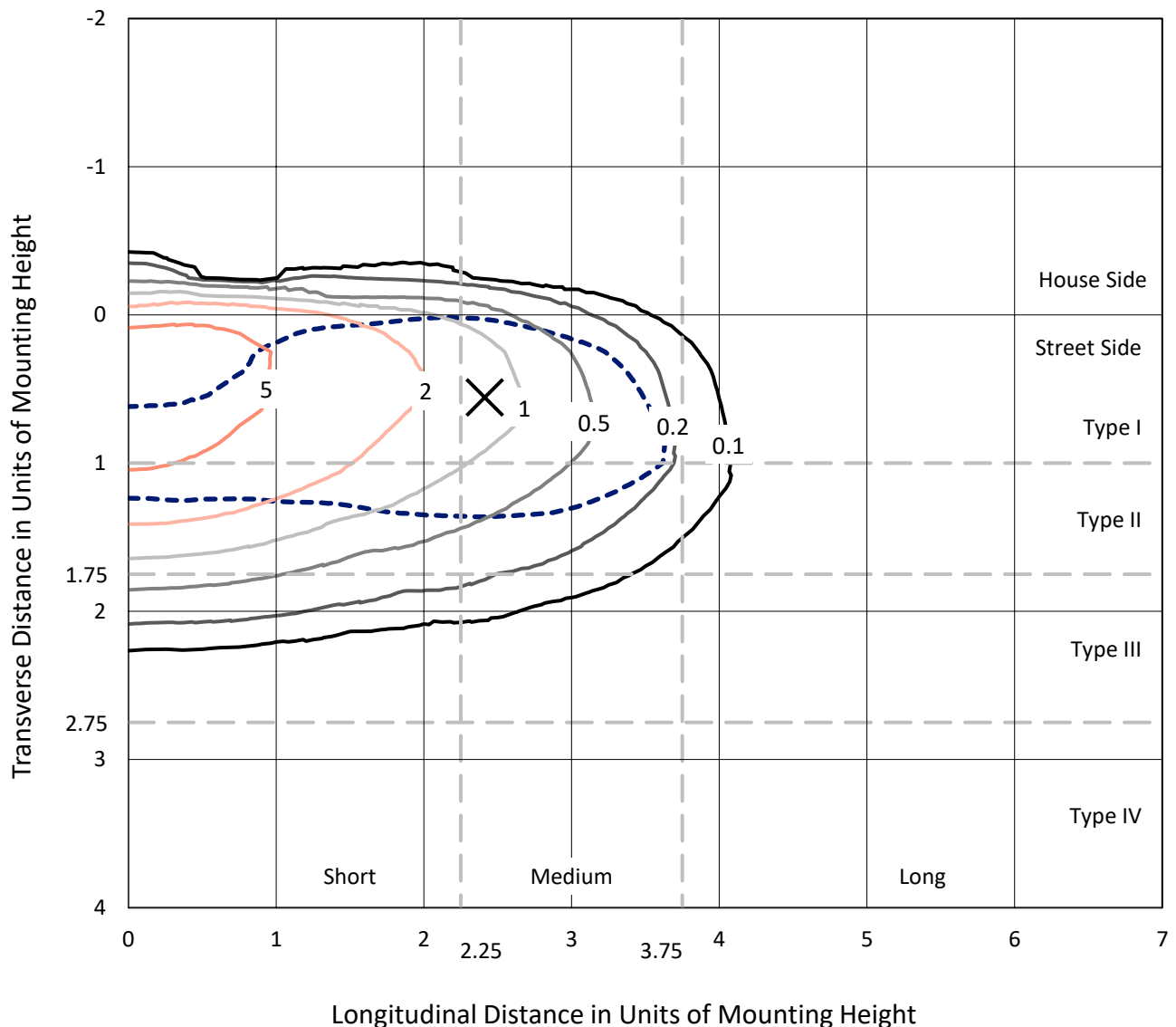
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

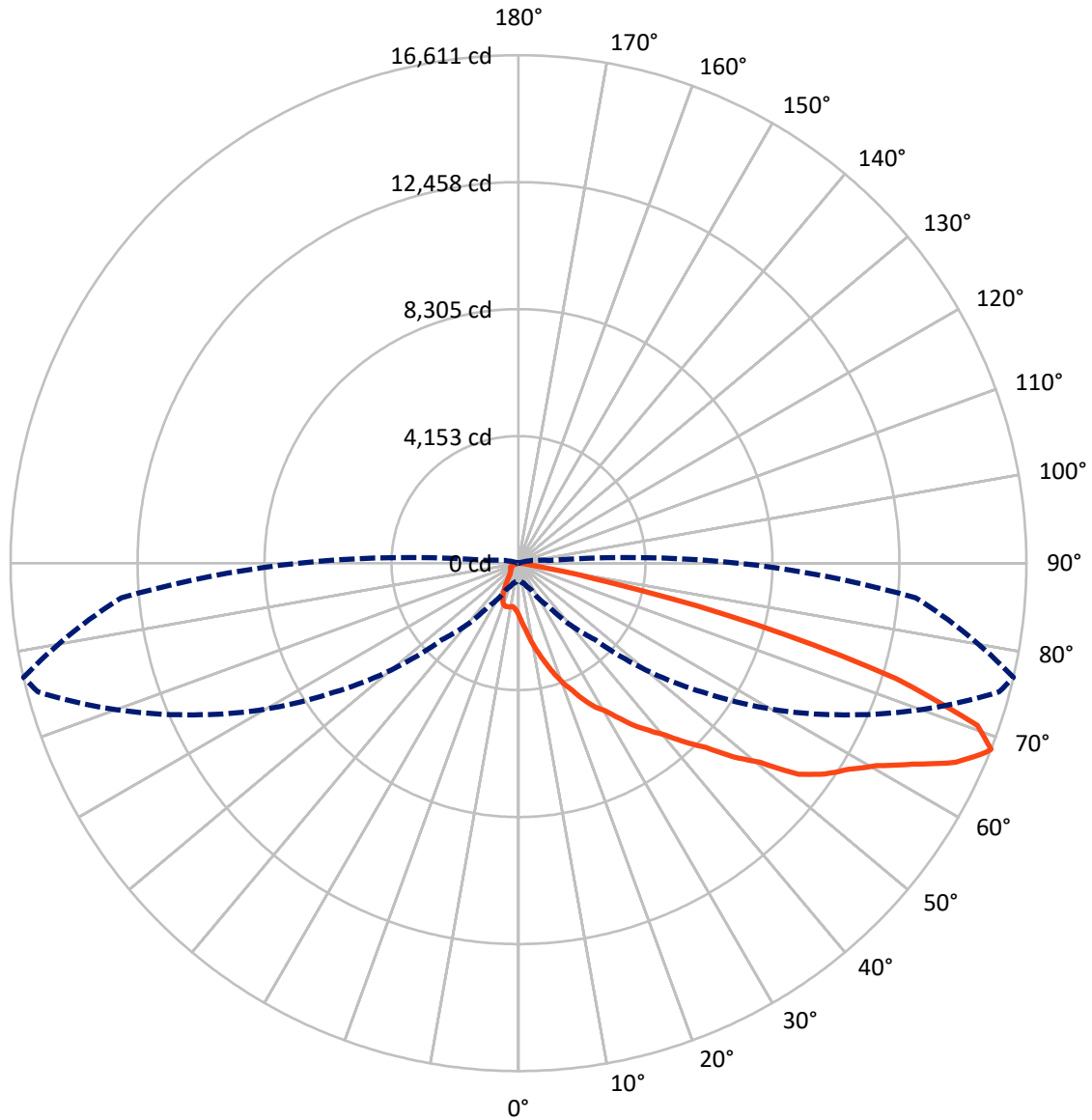
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	805.5	0.0	805.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	16956.4	0.0	16956.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	17761.8	0.0	17761.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	1.1
10°-20°	732.8	4.1
20°-30°	1420.2	8.0
30°-40°	2475.8	13.9
40°-50°	3626.1	20.4
50°-60°	4260.1	24.0
60°-70°	3597.2	20.3
70°-80°	1394.4	7.9
80°-90°	56.7	0.3
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°	17761.8	100.0
0°-180°	17761.8	100.0

Coefficient of Utilization



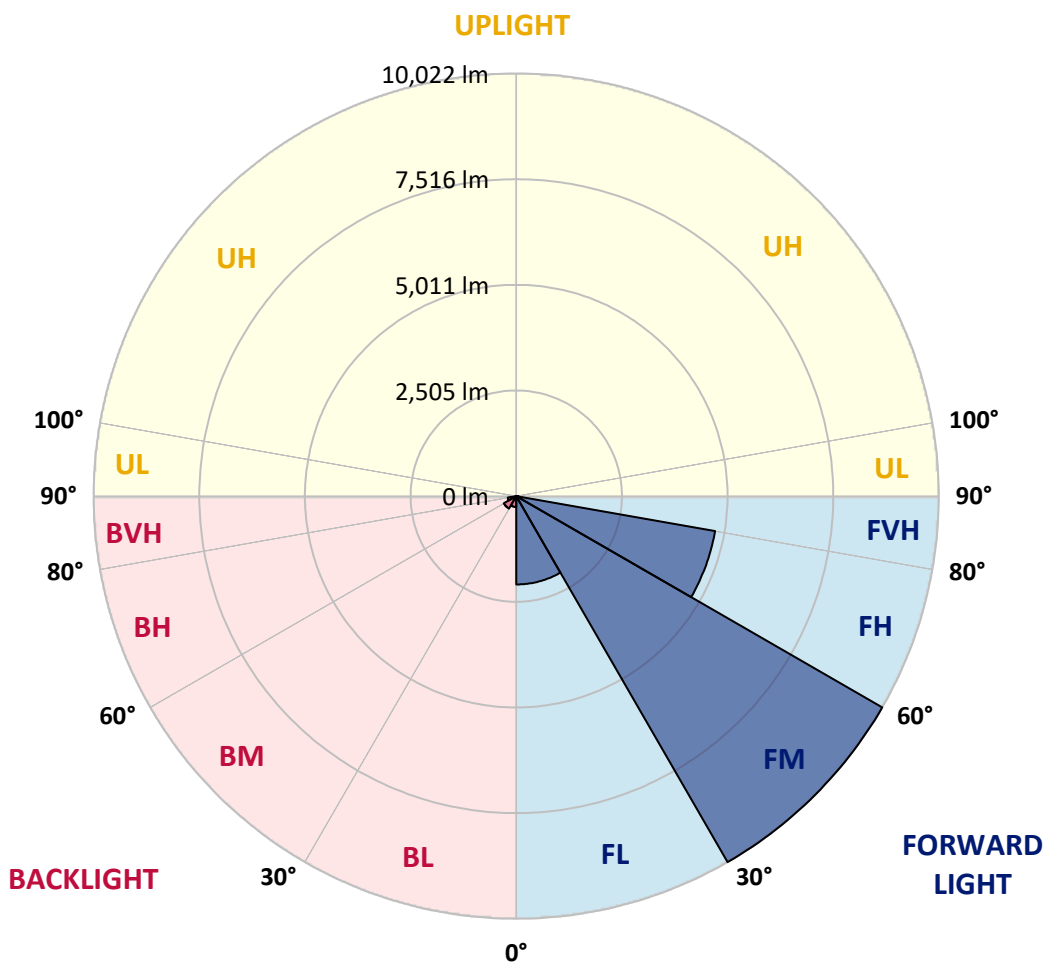
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.3	11.8			
FM (30°-60°)	10021.6	56.4			
FH (60°-80°)	4788.2	27.0			G2/5000
FVH (80°-90°)	52.3	0.3			G1/100
BL (0°-30°)	257.4	1.4	B1/500		
BM (30°-60°)	340.4	1.9	B1/1000		
BH (60°-80°)	203.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7
2.5°	2584.1	2535.2	2483.8	2469.1	2373.7	2266.0	2165.7	2067.8	1903.8	1906.3	1793.7
5°	3330.5	3269.3	3227.7	3217.9	3068.6	2882.7	2730.9	2454.4	2182.8	2121.6	1916.1
7.5°	3944.7	3925.1	3863.9	3812.6	3702.4	3474.9	3296.2	2899.8	2486.2	2417.7	2065.3
10°	4316.7	4346.0	4372.9	4306.9	4221.2	4057.3	3812.6	3384.3	2831.3	2745.6	2258.7
12.5°	4713.1	4664.1	4681.3	4735.1	4622.5	4585.8	4282.4	3883.5	3235.0	3071.1	2503.4
15°	4815.9	4835.4	4877.0	5033.7	5109.5	5004.3	4742.5	4287.3	3653.5	3425.9	2730.9
17.5°	4884.4	4874.6	4926.0	5160.9	5275.9	5376.2	5212.3	4737.6	4018.1	3815.0	3014.8
20°	4970.0	4916.2	5028.8	5178.0	5444.8	5655.2	5647.9	5190.3	4399.9	4184.5	3296.2
22.5°	5288.2	5246.6	5337.1	5351.8	5537.8	5831.4	5902.4	5559.8	4791.4	4527.1	3599.7
25°	5875.5	5951.3	5843.6	5750.7	5806.9	6000.3	6051.6	5887.7	5185.4	4943.1	3903.1
27.5°	6734.4	6724.6	6511.7	6391.8	6257.2	6232.7	6269.4	6193.6	5496.2	5322.4	4152.7
30°	7656.9	7576.2	7380.4	7091.7	6795.6	6612.0	6560.6	6482.3	5860.8	5608.7	4399.9
32.5°	8391.1	8435.1	8217.3	7840.5	7348.6	7101.4	6854.3	6768.6	6262.1	6039.4	4683.7
35°	9066.5	9007.7	8834.0	8515.9	8075.4	7676.5	7289.9	7106.3	6744.2	6523.9	4996.9
37.5°	9565.7	9639.1	9308.7	9005.3	8567.2	8236.9	7857.6	7456.3	7240.9	6947.3	5378.7
40°	10037.9	9922.9	9700.2	9421.3	9015.1	8763.0	8513.4	7887.0	7769.5	7390.2	5809.4
42.5°	9954.7	9962.1	9839.7	9614.6	9320.9	9176.6	9090.9	8410.6	8249.1	8006.9	6230.3
45°	9614.6	9644.0	9685.6	9575.4	9599.9	9455.5	9685.6	9012.6	8853.6	8596.6	6714.8
47.5°	9240.2	9289.1	9279.3	9480.0	9707.6	9756.5	10331.6	9680.7	9612.2	9470.2	7385.3
50°	8618.6	8638.2	8826.6	9191.3	9502.0	10013.5	10816.1	10409.9	10515.1	10236.2	8183.1
52.5°	7556.6	7627.6	8112.1	8633.3	9259.8	10143.2	11144.0	11494.0	11760.7	11474.4	8949.0
55°	6213.2	6311.0	6788.2	7764.6	8682.3	9947.4	11442.6	12066.6	12607.4	12174.3	9413.9
57.5°	4999.4	5009.2	5437.4	6445.6	7862.5	9563.2	11594.3	12345.5	13072.3	12724.8	9981.7
60°	3810.1	3771.0	4155.2	5028.8	6482.3	8618.6	11215.0	12487.5	13652.3	13451.6	10664.4
62.5°	2452.0	2390.8	2809.3	3660.8	5063.0	7045.2	10456.4	12489.9	14557.7	14481.9	11807.2
65°	1213.8	1172.2	1531.9	2244.0	3504.2	5388.5	9374.8	12443.4	15663.8	15712.7	12920.6
67.5°	641.1	655.8	770.8	1137.9	2021.3	3807.7	7745.0	11897.7	16229.1	16503.1	13189.8
68°	589.7	594.6	685.2	947.0	1754.6	3531.1	7358.4	11738.7	16273.1	16610.8	13040.5
70°	479.6	487.0	518.8	594.6	949.5	2297.8	5677.2	10387.9	15610.0	15918.3	11804.7
72.5°	381.7	403.8	423.3	455.2	557.9	1206.4	3531.1	8095.0	12896.1	12930.4	9188.8
75°	291.2	308.3	347.5	374.4	435.6	663.2	1681.1	4935.8	8462.0	8046.0	5413.0
77.5°	225.1	239.8	256.9	293.7	364.6	447.8	513.9	2094.7	3594.8	2958.5	1529.4
80°	134.6	144.4	200.7	230.0	318.1	303.4	203.1	582.4	729.2	575.1	279.0
82.5°	78.3	85.6	115.0	176.2	222.7	164.0	119.9	181.1	178.6	156.6	93.0
85°	2.4	4.9	63.6	105.2	78.3	44.0	73.4	75.9	63.6	58.7	41.6
87.5°	0.0	2.4	17.1	14.7	17.1	9.8	14.7	19.6	24.5	22.0	17.1
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°	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7
2.5°	1717.9	1664.0	1544.1	1453.6	1355.7	1297.0	1238.2	1201.5	1181.9	1169.7	1179.5
5°	1761.9	1649.3	1456.0	1284.7	1172.2	1096.3	1020.4	981.3	944.6	925.0	937.2
7.5°	1859.8	1690.9	1370.4	1184.4	1052.2	934.8	839.4	763.5	719.4	680.3	687.6
10°	1979.7	1715.4	1372.8	1125.7	934.8	748.8	614.2	518.8	464.9	430.7	428.2
12.5°	2102.0	1810.8	1382.6	1066.9	790.4	562.8	403.8	332.8	301.0	283.9	283.9
15°	2288.0	1896.5	1358.1	959.3	599.5	367.1	276.5	252.0	239.8	225.1	227.6
17.5°	2449.5	2033.5	1345.9	797.7	411.1	264.3	230.0	203.1	190.9	176.2	176.2
20°	2667.3	2119.2	1279.8	616.7	283.9	220.2	186.0	161.5	141.9	129.7	132.1
22.5°	2865.5	2185.2	1162.4	420.9	217.8	173.7	137.0	112.6	95.4	80.8	83.2
25°	3080.9	2251.3	991.1	259.4	154.2	107.7	73.4	53.8	36.7	26.9	26.9
27.5°	3235.0	2270.9	768.4	154.2	93.0	48.9	17.1	2.4	0.0	0.0	0.0
30°	3391.7	2278.2	531.0	83.2	36.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3570.3	2275.8	332.8	44.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	3707.3	2234.2	159.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3915.3	2173.0	48.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4152.7	2062.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4365.6	1950.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4607.9	1810.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5033.7	1752.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5589.1	1705.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5931.7	1568.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6110.4	1426.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6374.7	1358.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6766.2	1363.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7378.0	1431.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7715.7	1363.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7429.4	1091.4	46.5	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	7182.2	1003.3	46.5	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	5936.6	653.4	44.0	12.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4324.0	362.2	36.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2515.6	181.1	26.9	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	655.8	90.5	22.0	12.2	7.3	2.4	0.0	0.0	0.0	0.0	0.0
80°	129.7	58.7	19.6	14.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	61.2	41.6	19.6	14.7	12.2	7.3	2.4	0.0	0.0	0.0	0.0
85°	31.8	19.6	19.6	14.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0
87.5°	14.7	7.3	7.3	7.3	7.3	4.9	2.4	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)