

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: P481932

Luminaire Tested: **IFLD-L-SA8C-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481932
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

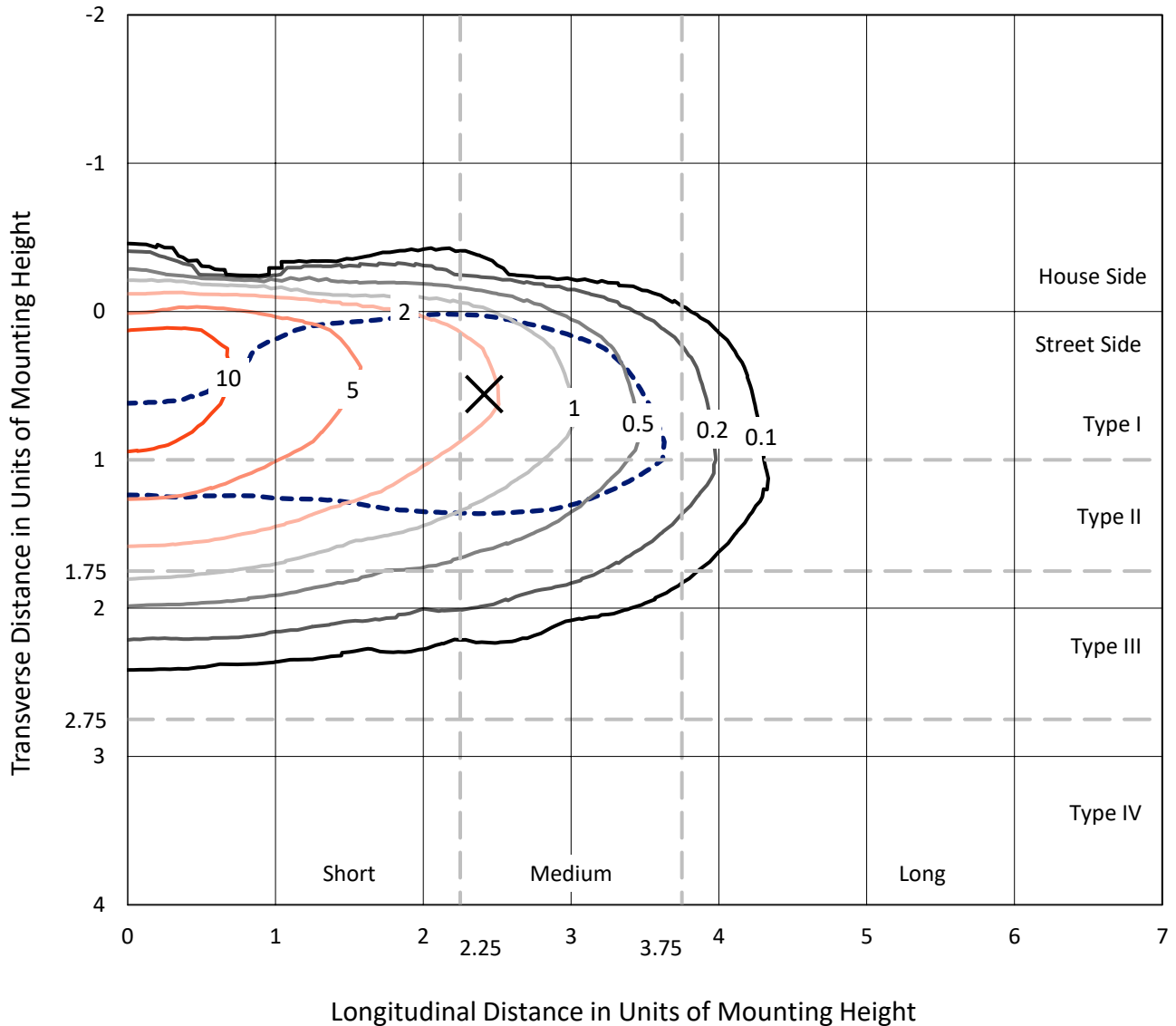
Lumens per Lamp: N/A
Luminaire Lumens: 29340.6 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 420.3
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

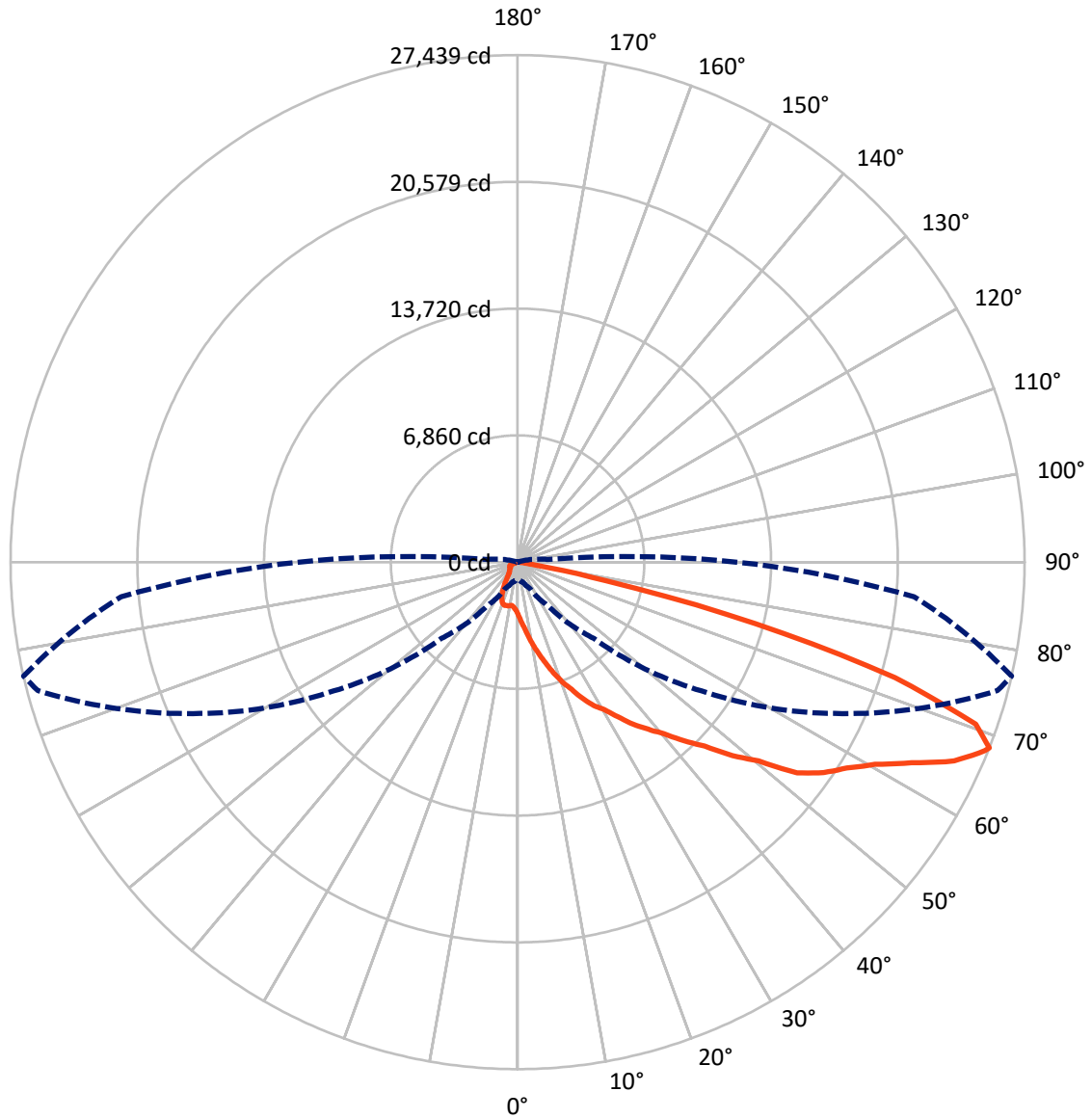
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	1330.6	0.0	1330.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	28010.0	0.0	28010.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	29340.6	0.0	29340.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.2	1.1
10°-20°	1210.5	4.1
20°-30°	2345.9	8.0
30°-40°	4089.8	13.9
40°-50°	5989.8	20.4
50°-60°	7037.1	24.0
60°-70°	5942.2	20.3
70°-80°	2303.3	7.9
80°-90°	93.7	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°	29340.6	100.0
0°-180°	29340.6	100.0

Coefficient of Utilization

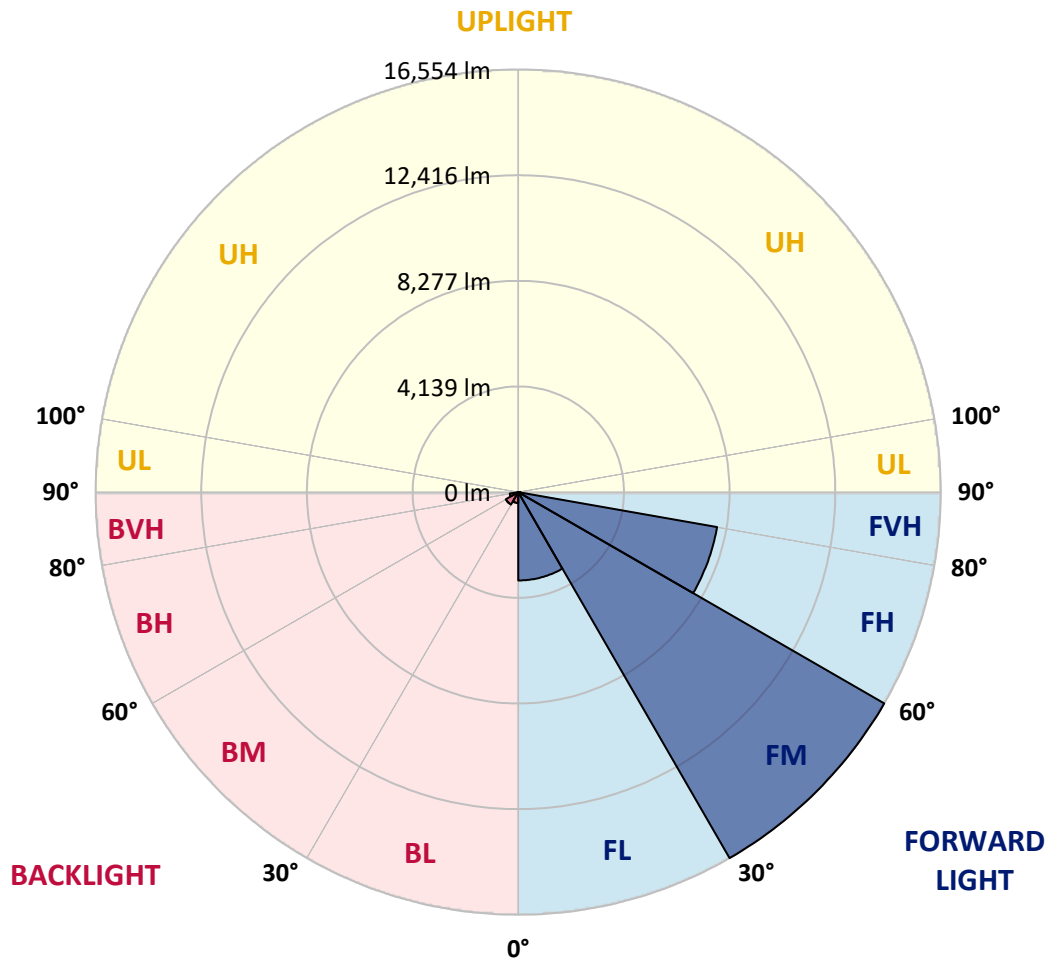


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3459.5	11.8			
FM (30°-60°)	16554.5	56.4			
FH (60°-80°)	7909.6	27.0			G4/12000
FVH (80°-90°)	86.4	0.3			G1/100
BL (0°-30°)	425.1	1.4	B1/500		
BM (30°-60°)	562.2	1.9	B1/1000		
BH (60°-80°)	336.0	1.1	B1/500		G1/500
BVH (80°-90°)	7.3	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4
2.5°	4268.7	4187.8	4102.9	4078.7	3921.0	3743.2	3577.4	3415.7	3144.9	3149.0	2963.0
5°	5501.6	5400.5	5331.8	5315.6	5069.0	4761.8	4511.2	4054.4	3605.7	3504.7	3165.1
7.5°	6516.2	6483.9	6382.8	6297.9	6116.0	5740.1	5445.0	4790.1	4107.0	3993.8	3411.7
10°	7130.6	7179.1	7223.6	7114.5	6973.0	6702.1	6297.9	5590.5	4676.9	4535.5	3731.0
12.5°	7785.5	7704.6	7732.9	7821.9	7635.9	7575.3	7074.0	6415.1	5343.9	5073.1	4135.3
15°	7955.3	7987.6	8056.3	8315.0	8440.3	8266.5	7834.0	7082.1	6035.2	5659.2	4511.2
17.5°	8068.4	8052.3	8137.2	8525.2	8715.2	8880.9	8610.1	7825.9	6637.5	6302.0	4980.1
20°	8209.9	8121.0	8306.9	8553.5	8994.1	9341.8	9329.6	8573.7	7268.1	6912.3	5445.0
22.5°	8735.4	8666.7	8816.3	8840.5	9147.7	9632.8	9750.0	9184.1	7914.8	7478.3	5946.2
25°	9705.6	9830.9	9653.0	9499.4	9592.4	9911.7	9996.6	9725.8	8565.6	8165.5	6447.5
27.5°	11124.4	11108.3	10756.6	10558.5	10336.2	10295.7	10356.4	10231.1	9079.0	8792.0	6859.8
30°	12648.4	12515.0	12191.6	11714.6	11225.5	10922.3	10837.4	10708.1	9681.3	9265.0	7268.1
32.5°	13861.1	13933.8	13574.1	12951.5	12139.0	11730.8	11322.5	11181.0	10344.3	9976.4	7737.0
35°	14976.7	14879.7	14592.7	14067.2	13339.6	12680.7	12042.0	11738.9	11140.6	10776.8	8254.4
37.5°	15801.4	15922.6	15376.9	14875.7	14152.1	13606.4	12979.8	12316.9	11961.2	11476.1	8885.0
40°	16581.5	16391.5	16023.7	15562.9	14891.8	14475.5	14063.2	13028.3	12834.3	12207.8	9596.4
42.5°	16444.1	16456.2	16254.1	15882.2	15397.1	15158.6	15017.2	13893.4	13626.6	13226.4	10291.7
45°	15882.2	15930.7	15999.4	15817.5	15858.0	15619.5	15999.4	14887.8	14625.1	14200.6	11092.1
47.5°	15263.7	15344.6	15328.4	15659.9	16035.8	16116.7	17066.6	15991.4	15878.2	15643.7	12199.7
50°	14237.0	14269.3	14580.6	15182.9	15696.3	16541.1	17867.0	17196.0	17369.8	16909.0	13517.5
52.5°	12482.6	12599.9	13400.2	14261.2	15296.1	16755.4	18408.7	18986.7	19427.3	18954.4	14782.7
55°	10263.4	10425.1	11213.4	12826.2	14342.1	16432.0	18901.8	19932.6	20826.0	20110.5	15550.7
57.5°	8258.4	8274.6	8982.0	10647.4	12987.9	15797.3	19152.4	20393.4	21594.0	21020.0	16488.6
60°	6293.9	6229.2	6863.8	8306.9	10708.1	14237.0	18525.9	20627.9	22552.0	22220.5	17616.4
62.5°	4050.4	3949.3	4640.6	6047.3	8363.5	11637.8	17272.8	20631.9	24047.7	23922.4	19504.1
65°	2005.0	1936.3	2530.5	3706.8	5788.6	8901.2	15486.1	20555.1	25874.8	25955.6	21343.4
67.5°	1059.1	1083.3	1273.3	1879.7	3338.9	6289.8	12793.9	19653.7	26808.6	27261.3	21788.0
68°	974.2	982.3	1131.8	1564.4	2898.3	5833.0	12155.2	19390.9	26881.3	27439.2	21541.4
70°	792.3	804.4	857.0	982.3	1568.4	3795.7	9378.1	17159.6	25785.9	26295.2	19500.1
72.5°	630.6	667.0	699.3	751.9	921.6	1992.9	5833.0	13371.9	21302.9	21359.5	15178.9
75°	481.0	509.3	574.0	618.5	719.5	1095.5	2777.1	8153.3	13978.3	13291.1	8941.6
77.5°	371.9	396.1	424.4	485.1	602.3	739.7	848.9	3460.2	5938.1	4887.1	2526.4
80°	222.3	238.5	331.5	380.0	525.5	501.2	335.5	962.1	1204.6	949.9	460.8
82.5°	129.4	141.5	190.0	291.0	367.8	270.8	198.1	299.1	295.1	258.7	153.6
85°	4.0	8.1	105.1	173.8	129.4	72.8	121.3	125.3	105.1	97.0	68.7
87.5°	0.0	4.0	28.3	24.3	28.3	16.2	24.3	32.3	40.4	36.4	28.3
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°	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4	2809.4
2.5°	2837.7	2748.8	2550.7	2401.1	2239.4	2142.4	2045.4	1984.8	1952.4	1932.2	1948.4
5°	2910.5	2724.5	2405.2	2122.2	1936.3	1811.0	1685.6	1621.0	1560.3	1528.0	1548.2
7.5°	3072.2	2793.2	2263.7	1956.5	1738.2	1544.2	1386.5	1261.2	1188.4	1123.8	1135.9
10°	3270.2	2833.7	2267.7	1859.5	1544.2	1236.9	1014.6	857.0	768.0	711.4	707.4
12.5°	3472.3	2991.3	2283.9	1762.4	1305.7	929.7	667.0	549.8	497.2	468.9	468.9
15°	3779.6	3132.8	2243.5	1584.6	990.4	606.3	456.8	416.4	396.1	371.9	375.9
17.5°	4046.3	3359.2	2223.3	1317.8	679.1	436.6	380.0	335.5	315.3	291.0	291.0
20°	4406.1	3500.6	2114.1	1018.7	468.9	363.8	307.2	266.8	234.5	214.2	218.3
22.5°	4733.5	3609.8	1920.1	695.3	359.8	287.0	226.4	185.9	157.6	133.4	137.4
25°	5089.3	3718.9	1637.1	428.5	254.7	177.9	121.3	88.9	60.6	44.5	44.5
27.5°	5343.9	3751.3	1269.3	254.7	153.6	80.8	28.3	4.0	0.0	0.0	0.0
30°	5602.6	3763.4	877.2	137.4	60.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5897.7	3759.3	549.8	72.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6124.1	3690.6	262.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6467.7	3589.6	80.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6859.8	3407.7	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7211.5	3221.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7611.7	2991.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8315.0	2894.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9232.6	2817.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9798.5	2591.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10093.6	2356.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10530.2	2243.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11177.0	2251.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12187.5	2364.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12745.4	2251.6	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12272.4	1802.9	76.8	20.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	11864.2	1657.3	76.8	20.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9806.6	1079.3	72.8	20.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7142.8	598.3	60.6	16.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	4155.5	299.1	44.5	16.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1083.3	149.6	36.4	20.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0
80°	214.2	97.0	32.3	24.3	16.2	8.1	0.0	0.0	0.0	0.0	0.0
82.5°	101.1	68.7	32.3	24.3	20.2	12.1	4.0	0.0	0.0	0.0	0.0
85°	52.5	32.3	32.3	24.3	24.3	16.2	8.1	0.0	0.0	0.0	0.0
87.5°	24.3	12.1	12.1	12.1	12.1	8.1	4.0	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)