

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: P482136

Luminaire Tested: **IFLD-S-SA3C-760-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482136
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-760-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17034.8 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

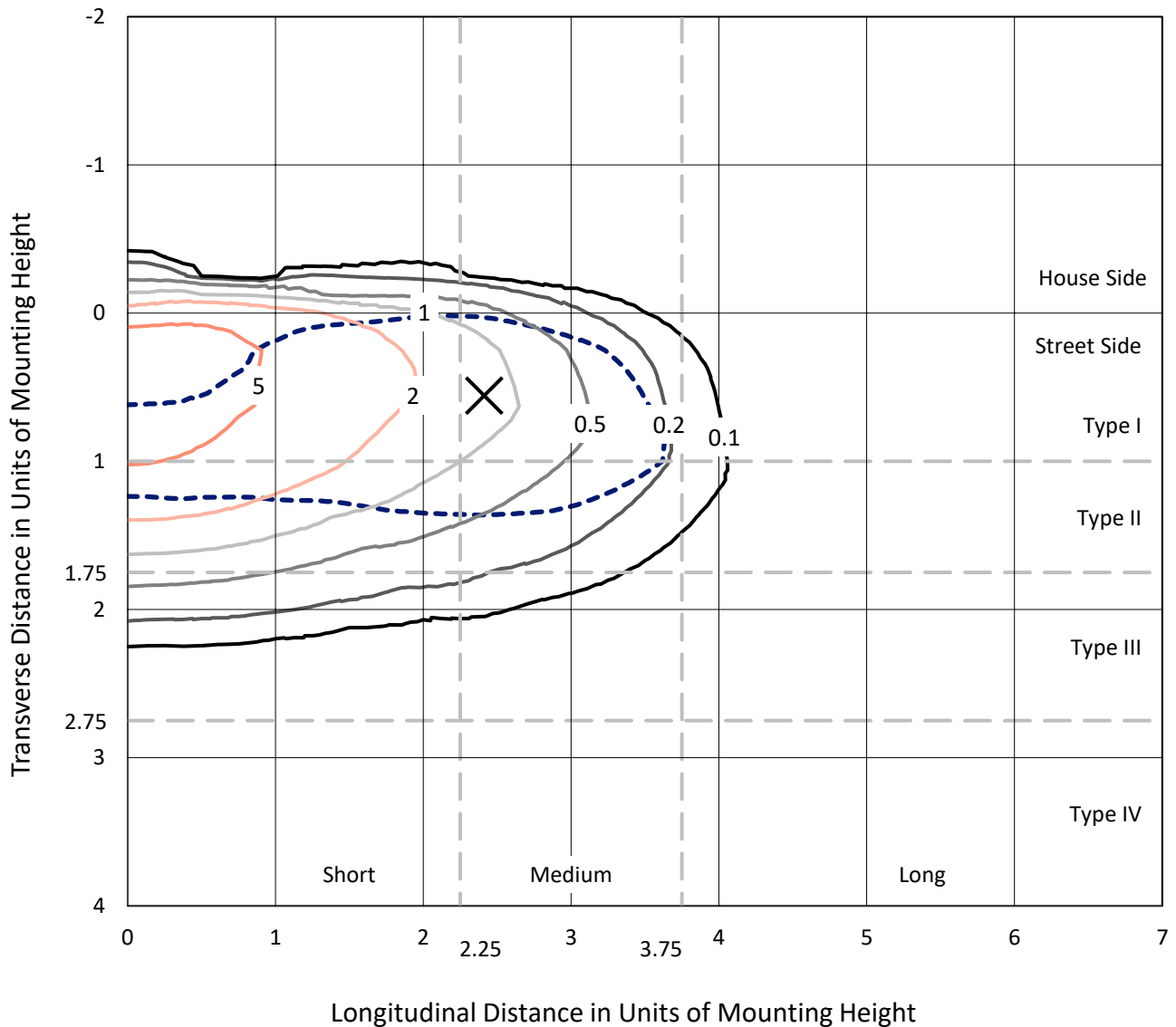
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

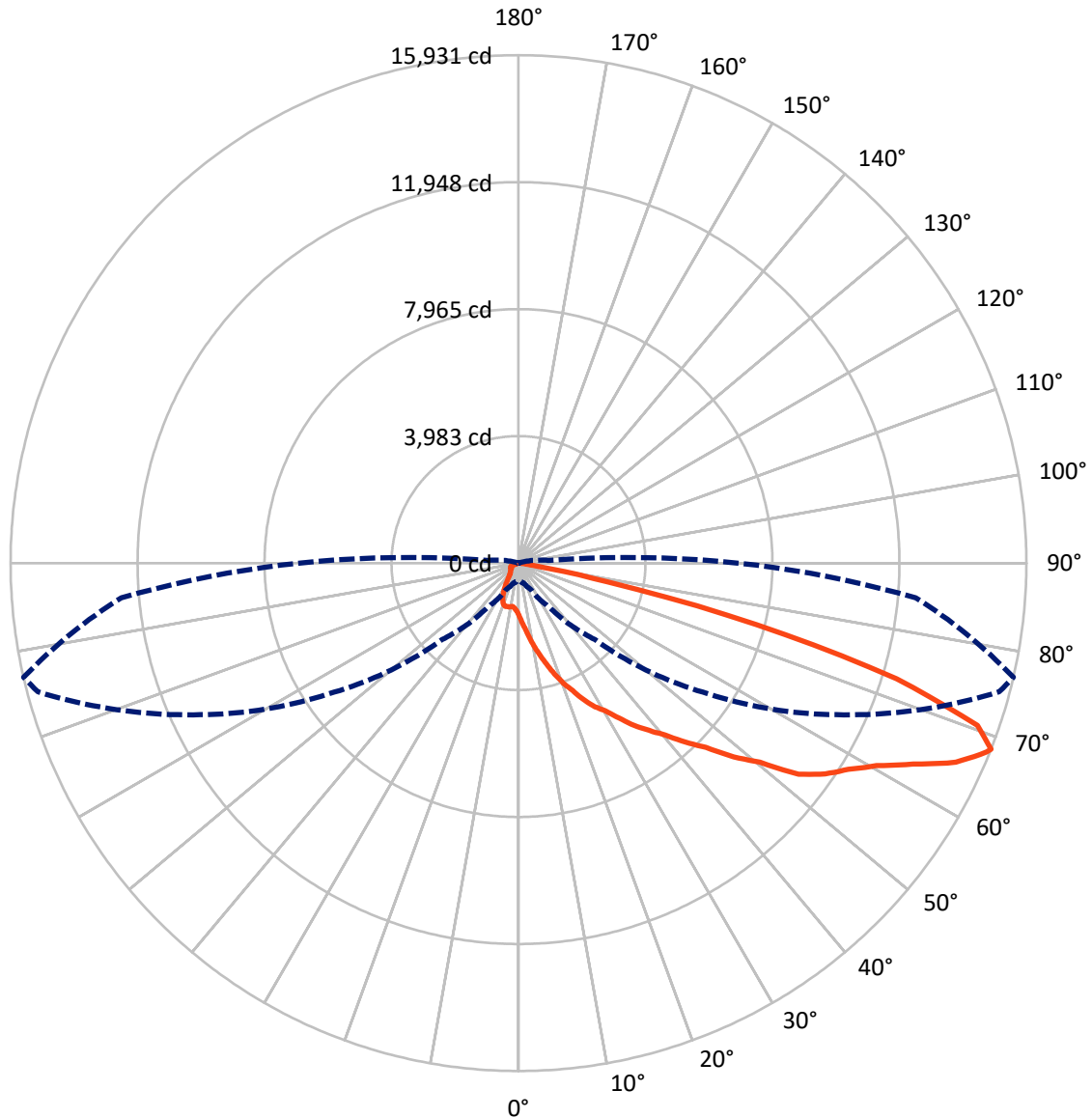
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	772.5	0.0	772.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	16262.3	0.0	16262.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	17034.8	0.0	17034.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.1
10°-20°	702.8	4.1
20°-30°	1362.0	8.0
30°-40°	2374.5	13.9
40°-50°	3477.6	20.4
50°-60°	4085.7	24.0
60°-70°	3450.0	20.3
70°-80°	1337.3	7.9
80°-90°	54.4	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°	17034.8	100.0
0°-180°	17034.8	100.0

Coefficient of Utilization

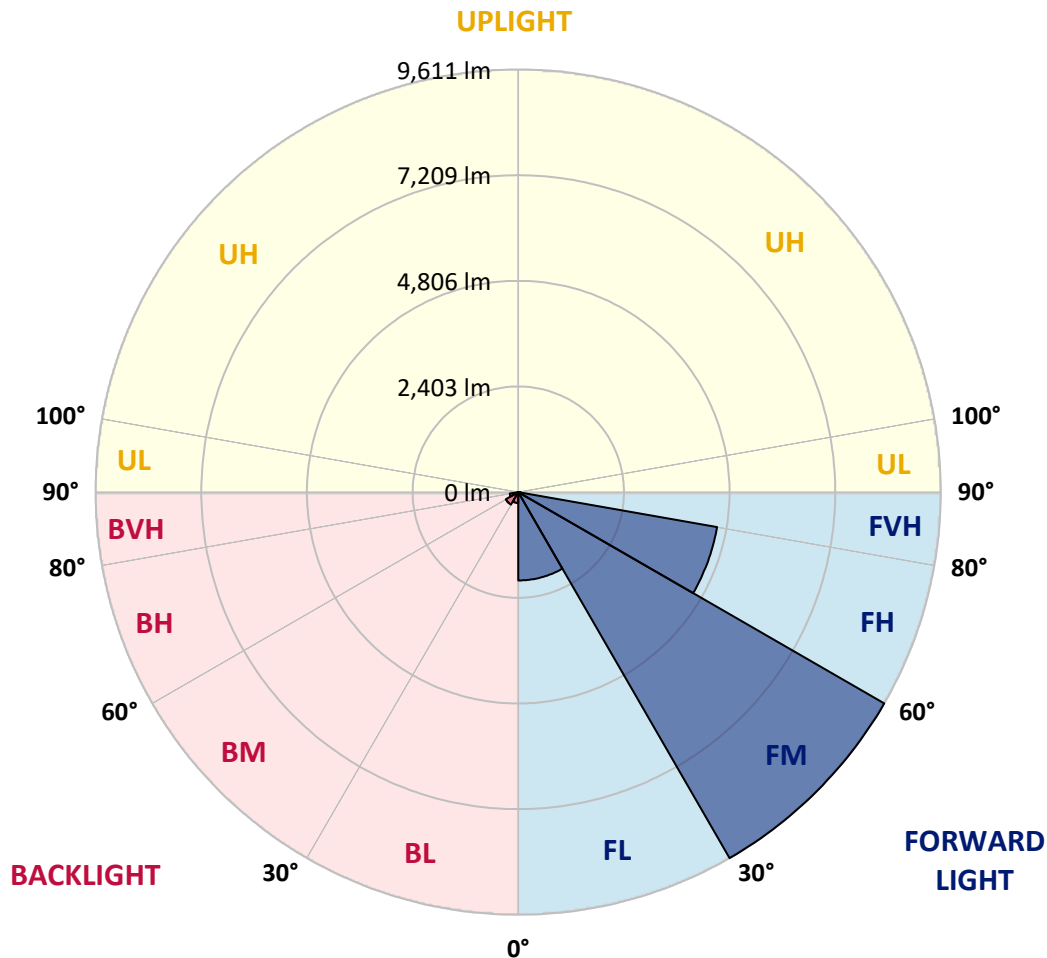


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.6	11.8			
FM (30°-60°)	9611.3	56.4			
FH (60°-80°)	4592.2	27.0			G2/5000
FVH (80°-90°)	50.2	0.3			G1/100
BL (0°-30°)	246.8	1.4	B1/500		
BM (30°-60°)	326.4	1.9	B1/1000		
BH (60°-80°)	195.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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°	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1
2.5°	2478.3	2431.4	2382.1	2368.0	2276.5	2173.2	2077.0	1983.1	1825.9	1828.2	1720.3
5°	3194.2	3135.5	3095.6	3086.2	2943.0	2764.7	2619.2	2354.0	2093.5	2034.8	1837.6
7.5°	3783.2	3764.5	3705.8	3656.5	3550.9	3332.6	3161.3	2781.1	2384.5	2318.8	1980.8
10°	4140.0	4168.1	4193.9	4130.6	4048.4	3891.2	3656.5	3245.8	2715.4	2633.2	2166.2
12.5°	4520.2	4473.2	4489.7	4541.3	4433.3	4398.1	4107.1	3724.6	3102.6	2945.4	2400.9
15°	4618.7	4637.5	4677.4	4827.6	4900.4	4799.4	4548.3	4111.8	3503.9	3285.7	2619.2
17.5°	4684.4	4675.1	4724.3	4949.6	5060.0	5156.2	4998.9	4543.6	3853.6	3658.8	2891.4
20°	4766.6	4715.0	4822.9	4966.1	5221.9	5423.7	5416.7	4977.8	4219.8	4013.2	3161.3
22.5°	5071.7	5031.8	5118.6	5132.7	5311.1	5592.7	5660.8	5332.2	4595.3	4341.8	3452.3
25°	5634.9	5707.7	5604.4	5515.3	5569.2	5754.6	5803.9	5646.7	4973.1	4740.8	3743.3
27.5°	6458.7	6449.3	6245.1	6130.1	6001.1	5977.6	6012.8	5940.0	5271.2	5104.5	3982.7
30°	7343.5	7266.1	7078.3	6801.4	6517.4	6341.4	6292.1	6217.0	5620.9	5379.1	4219.8
32.5°	8047.6	8089.8	7880.9	7519.5	7047.8	6810.8	6573.7	6491.6	6005.8	5792.2	4492.0
35°	8695.3	8639.0	8472.4	8167.3	7744.8	7362.3	6991.5	6815.4	6468.1	6256.9	4792.4
37.5°	9174.1	9244.5	8927.7	8636.7	8216.6	7899.7	7536.0	7151.1	6944.5	6662.9	5158.5
40°	9627.1	9516.7	9303.2	9035.6	8646.0	8404.3	8164.9	7564.1	7451.5	7087.7	5571.6
42.5°	9547.3	9554.3	9437.0	9221.0	8939.4	8800.9	8718.8	8066.4	7911.5	7679.1	5975.3
45°	9221.0	9249.2	9289.1	9183.5	9207.0	9068.5	9289.1	8643.7	8491.1	8244.7	6439.9
47.5°	8862.0	8908.9	8899.5	9092.0	9310.2	9357.2	9908.7	9284.4	9218.7	9082.6	7083.0
50°	8265.8	8284.6	8465.3	8815.0	9113.1	9603.6	10373.4	9983.8	10084.7	9817.2	7848.1
52.5°	7247.3	7315.3	7780.0	8279.9	8880.7	9728.0	10687.9	11023.5	11279.3	11004.7	8582.7
55°	5958.8	6052.7	6510.3	7446.8	8326.9	9540.2	10974.2	11572.6	12091.3	11675.9	9028.6
57.5°	4794.8	4804.1	5214.8	6181.8	7540.6	9171.8	11119.7	11840.2	12537.2	12204.0	9573.1
60°	3654.1	3616.6	3985.1	4822.9	6217.0	8265.8	10755.9	11976.3	13093.5	12901.0	10227.9
62.5°	2351.6	2292.9	2694.3	3511.0	4855.8	6756.8	10028.4	11978.7	13961.8	13889.1	11323.9
65°	1164.1	1124.2	1469.2	2152.1	3360.8	5167.9	8991.0	11934.1	15022.6	15069.6	12391.7
67.5°	614.9	629.0	739.3	1091.3	1938.6	3651.8	7428.0	11410.7	15564.8	15827.6	12649.9
68°	565.6	570.3	657.1	908.3	1682.7	3386.6	7057.2	11258.2	15607.0	15930.9	12506.7
70°	460.0	467.0	497.5	570.3	910.6	2203.8	5444.8	9962.7	14971.0	15266.7	11321.5
72.5°	366.1	387.2	406.0	436.5	535.1	1157.0	3386.6	7763.6	12368.3	12401.1	8812.7
75°	279.3	295.7	333.3	359.1	417.8	636.0	1612.3	4733.7	8115.6	7716.7	5191.4
77.5°	215.9	230.0	246.4	281.6	349.7	429.5	492.9	2009.0	3447.6	2837.4	1466.8
80°	129.1	138.5	192.4	220.6	305.1	291.0	194.8	558.6	699.4	551.5	267.5
82.5°	75.1	82.1	110.3	169.0	213.6	157.2	115.0	173.7	171.3	150.2	89.2
85°	2.3	4.7	61.0	100.9	75.1	42.2	70.4	72.8	61.0	56.3	39.9
87.5°	0.0	2.3	16.4	14.1	16.4	9.4	14.1	18.8	23.5	21.1	16.4
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°	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1	1631.1
2.5°	1647.5	1595.9	1480.9	1394.1	1300.2	1243.9	1187.5	1152.3	1133.6	1121.8	1131.2
5°	1689.8	1581.8	1396.4	1232.1	1124.2	1051.4	978.7	941.1	905.9	887.1	898.9
7.5°	1783.7	1621.7	1314.3	1135.9	1009.2	896.5	805.0	732.2	690.0	652.4	659.5
10°	1898.7	1645.2	1316.6	1079.6	896.5	718.2	589.1	497.5	445.9	413.1	410.7
12.5°	2016.0	1736.7	1326.0	1023.3	758.1	539.8	387.2	319.2	288.7	272.2	272.2
15°	2194.4	1818.9	1302.5	920.0	575.0	352.0	265.2	241.7	230.0	215.9	218.3
17.5°	2349.3	1950.3	1290.8	765.1	394.3	253.5	220.6	194.8	183.1	169.0	169.0
20°	2558.1	2032.4	1227.4	591.4	272.2	211.2	178.4	154.9	136.1	124.4	126.7
22.5°	2748.2	2095.8	1114.8	403.7	208.9	166.6	131.4	108.0	91.5	77.4	79.8
25°	2954.8	2159.2	950.5	248.8	147.9	103.3	70.4	51.6	35.2	25.8	25.8
27.5°	3102.6	2177.9	736.9	147.9	89.2	46.9	16.4	2.3	0.0	0.0	0.0
30°	3252.8	2185.0	509.3	79.8	35.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3424.2	2182.6	319.2	42.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	3555.6	2142.7	152.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3755.1	2084.1	46.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3982.7	1978.5	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4186.9	1870.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4419.2	1736.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4827.6	1680.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5360.4	1635.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5688.9	1504.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5860.3	1368.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6113.7	1302.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6489.2	1307.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7076.0	1372.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7399.8	1307.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7125.2	1046.7	44.6	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	6888.2	962.2	44.6	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	5693.6	626.6	42.2	11.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4147.0	347.3	35.2	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2412.6	173.7	25.8	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	629.0	86.8	21.1	11.7	7.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	124.4	56.3	18.8	14.1	9.4	4.7	0.0	0.0	0.0	0.0	0.0
82.5°	58.7	39.9	18.8	14.1	11.7	7.0	2.3	0.0	0.0	0.0	0.0
85°	30.5	18.8	18.8	14.1	14.1	9.4	4.7	0.0	0.0	0.0	0.0
87.5°	14.1	7.0	7.0	7.0	7.0	4.7	2.3	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)