

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: P481974

Luminaire Tested: **IFLD-S-SA2B-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481974
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

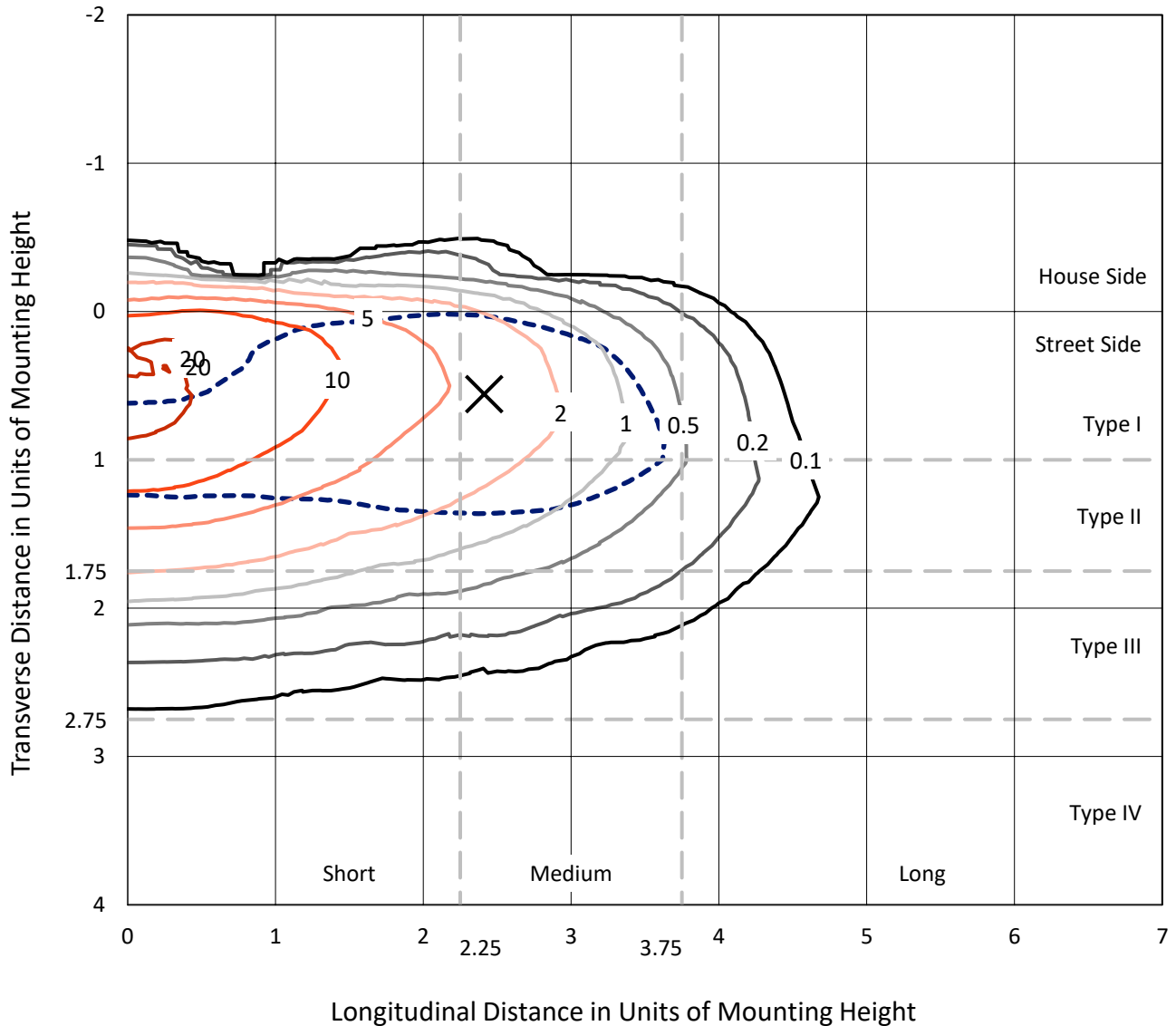
Lumens per Lamp: N/A
Luminaire Lumens: 8174.2 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

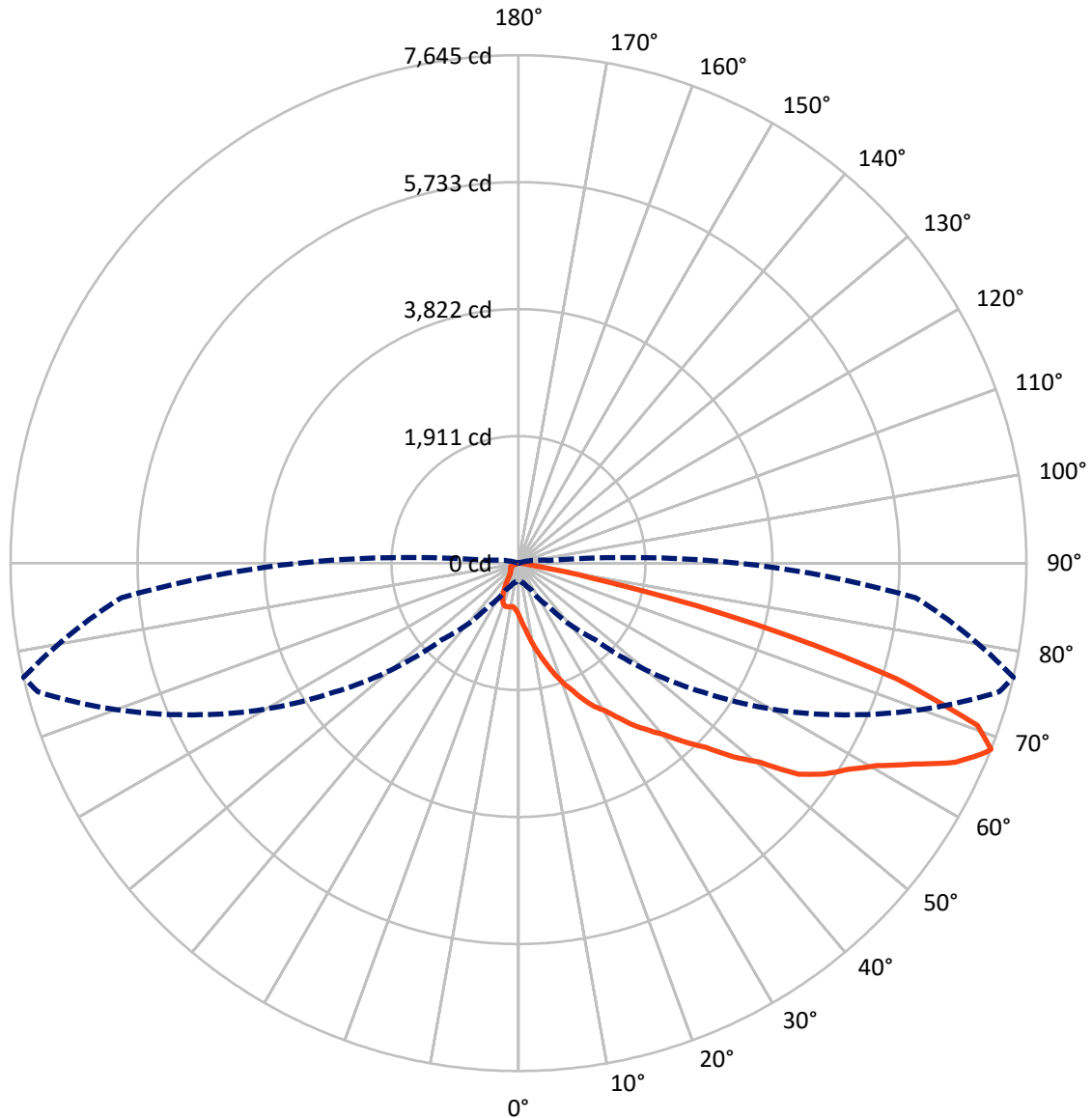
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.1 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	370.7	0.0	370.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	7803.5	0.0	7803.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	8174.2	0.0	8174.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.1
10°-20°	337.2	4.1
20°-30°	653.6	8.0
30°-40°	1139.4	13.9
40°-50°	1668.8	20.4
50°-60°	1960.5	24.0
60°-70°	1655.5	20.3
70°-80°	641.7	7.9
80°-90°	26.1	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°	8174.2	100.0
0°-180°	8174.2	100.0

Coefficient of Utilization



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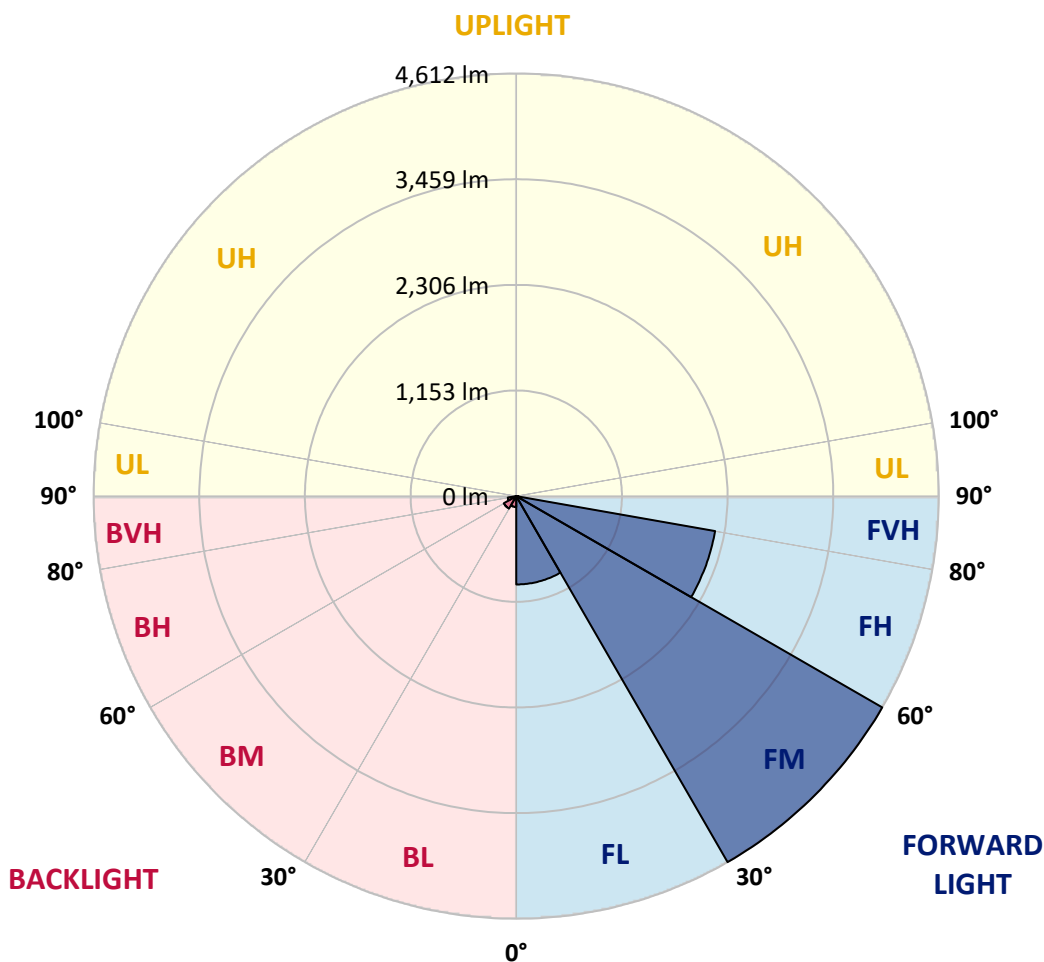
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.8	11.8			
FM (30°-60°)	4612.0	56.4			
FH (60°-80°)	2203.6	27.0			G2/5000
FVH (80°-90°)	24.1	0.3			G1/100
BL (0°-30°)	118.4	1.4	B1/500		
BM (30°-60°)	156.6	1.9	B0/220		
BH (60°-80°)	93.6	1.1	B0/110		G0/110
BVH (80°-90°)	2.0	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°	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7
2.5°	1189.2	1166.7	1143.1	1136.3	1092.4	1042.8	996.7	951.6	876.2	877.3	825.5
5°	1532.7	1504.6	1485.4	1480.9	1412.2	1326.6	1256.8	1129.6	1004.6	976.4	881.8
7.5°	1815.4	1806.4	1778.2	1754.6	1703.9	1599.2	1517.0	1334.5	1144.2	1112.7	950.5
10°	1986.6	2000.1	2012.5	1982.1	1942.7	1867.2	1754.6	1557.5	1303.0	1263.6	1039.5
12.5°	2169.0	2146.5	2154.4	2179.2	2127.3	2110.5	1970.8	1787.2	1488.8	1413.4	1152.1
15°	2216.3	2225.3	2244.5	2316.5	2351.5	2303.0	2182.5	1973.1	1681.4	1576.6	1256.8
17.5°	2247.9	2243.3	2267.0	2375.1	2428.0	2474.2	2398.8	2180.3	1849.2	1755.7	1387.5
20°	2287.3	2262.5	2314.3	2383.0	2505.7	2602.6	2599.2	2388.6	2024.9	1925.8	1517.0
22.5°	2433.7	2414.5	2456.2	2463.0	2548.5	2683.7	2716.3	2558.7	2205.1	2083.4	1656.6
25°	2704.0	2738.9	2689.3	2646.5	2672.4	2761.4	2785.0	2709.6	2386.4	2274.9	1796.3
27.5°	3099.2	3094.7	2996.8	2941.6	2879.6	2868.4	2885.3	2850.4	2529.4	2449.4	1911.1
30°	3523.8	3486.6	3396.6	3263.7	3127.4	3042.9	3019.3	2983.2	2697.2	2581.2	2024.9
32.5°	3861.7	3881.9	3781.7	3608.3	3381.9	3268.2	3154.4	3115.0	2881.9	2779.4	2155.5
35°	4172.5	4145.5	4065.5	3919.1	3716.4	3532.8	3354.9	3270.4	3103.7	3002.4	2299.7
37.5°	4402.2	4436.0	4284.0	4144.3	3942.7	3790.7	3616.2	3431.5	3332.4	3197.2	2475.3
40°	4619.6	4566.7	4464.2	4335.8	4148.8	4032.8	3918.0	3629.7	3575.6	3401.1	2673.5
42.5°	4581.3	4584.7	4528.4	4424.8	4289.6	4223.2	4183.8	3870.7	3796.3	3684.9	2867.2
45°	4424.8	4438.3	4457.4	4406.7	4418.0	4351.6	4457.4	4147.7	4074.5	3956.3	3090.2
47.5°	4252.4	4275.0	4270.5	4362.8	4467.5	4490.1	4754.7	4455.2	4423.6	4358.3	3398.8
50°	3966.4	3975.4	4062.1	4229.9	4372.9	4608.3	4977.7	4790.8	4839.2	4710.8	3765.9
52.5°	3477.6	3510.3	3733.3	3973.2	4261.5	4668.0	5128.6	5289.7	5412.4	5280.6	4118.4
55°	2859.4	2904.4	3124.0	3573.4	3995.7	4577.9	5266.0	5553.2	5802.1	5602.7	4332.4
57.5°	2300.8	2305.3	2502.4	2966.4	3618.4	4401.1	5335.8	5681.6	6016.0	5856.1	4593.7
60°	1753.5	1735.4	1912.2	2314.3	2983.2	3966.4	5161.3	5746.9	6282.9	6190.6	4907.9
62.5°	1128.4	1100.3	1292.9	1684.8	2330.1	3242.3	4812.2	5748.0	6699.6	6664.7	5433.8
65°	558.6	539.4	705.0	1032.7	1612.7	2479.8	4314.4	5726.6	7208.7	7231.2	5946.2
67.5°	295.1	301.8	354.7	523.7	930.2	1752.3	3564.4	5475.5	7468.8	7594.9	6070.1
68°	271.4	273.7	315.3	435.8	807.5	1625.1	3386.4	5402.3	7489.1	7644.5	6001.4
70°	220.7	224.1	238.7	273.7	437.0	1057.5	2612.7	4780.6	7183.9	7325.8	5432.7
72.5°	175.7	185.8	194.8	209.5	256.8	555.2	1625.1	3725.4	5935.0	5950.7	4228.8
75°	134.0	141.9	159.9	172.3	200.5	305.2	773.7	2271.5	3894.3	3702.9	2491.1
77.5°	103.6	110.4	118.2	135.1	167.8	206.1	236.5	964.0	1654.4	1361.5	703.9
80°	61.9	66.4	92.3	105.9	146.4	139.6	93.5	268.0	335.6	264.7	128.4
82.5°	36.0	39.4	52.9	81.1	102.5	75.5	55.2	83.3	82.2	72.1	42.8
85°	1.1	2.3	29.3	48.4	36.0	20.3	33.8	34.9	29.3	27.0	19.1
87.5°	0.0	1.1	7.9	6.8	7.9	4.5	6.8	9.0	11.3	10.1	7.9
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°	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7	782.7
2.5°	790.6	765.8	710.6	668.9	623.9	596.9	569.8	553.0	543.9	538.3	542.8
5°	810.8	759.0	670.1	591.2	539.4	504.5	469.6	451.6	434.7	425.7	431.3
7.5°	855.9	778.2	630.7	545.1	484.3	430.2	386.3	351.4	331.1	313.1	316.5
10°	911.1	789.5	631.8	518.0	430.2	344.6	282.7	238.7	214.0	198.2	197.1
12.5°	967.4	833.4	636.3	491.0	363.8	259.0	185.8	153.2	138.5	130.6	130.6
15°	1053.0	872.8	625.0	441.5	275.9	168.9	127.3	116.0	110.4	103.6	104.7
17.5°	1127.3	935.9	619.4	367.1	189.2	121.6	105.9	93.5	87.8	81.1	81.1
20°	1227.5	975.3	589.0	283.8	130.6	101.4	85.6	74.3	65.3	59.7	60.8
22.5°	1318.8	1005.7	534.9	193.7	100.2	80.0	63.1	51.8	43.9	37.2	38.3
25°	1417.9	1036.1	456.1	119.4	70.9	49.6	33.8	24.8	16.9	12.4	12.4
27.5°	1488.8	1045.1	353.6	70.9	42.8	22.5	7.9	1.1	0.0	0.0	0.0
30°	1560.9	1048.5	244.4	38.3	16.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1643.1	1047.3	153.2	20.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	1706.2	1028.2	73.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1801.9	1000.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1911.1	949.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2009.1	897.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2120.6	833.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2316.5	806.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2572.2	784.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2729.9	721.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2812.1	656.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2933.7	625.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3113.9	627.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3395.4	658.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3550.8	627.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3419.1	502.3	21.4	5.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	3305.3	461.7	21.4	5.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	2732.1	300.7	20.3	5.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1990.0	166.7	16.9	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	1157.7	83.3	12.4	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	301.8	41.7	10.1	5.6	3.4	1.1	0.0	0.0	0.0	0.0	0.0
80°	59.7	27.0	9.0	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	28.2	19.1	9.0	6.8	5.6	3.4	1.1	0.0	0.0	0.0	0.0
85°	14.6	9.0	9.0	6.8	6.8	4.5	2.3	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	3.4	3.4	3.4	2.3	1.1	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)