

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: P482090

Luminaire Tested: **IFLD-S-SA2A-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482090
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

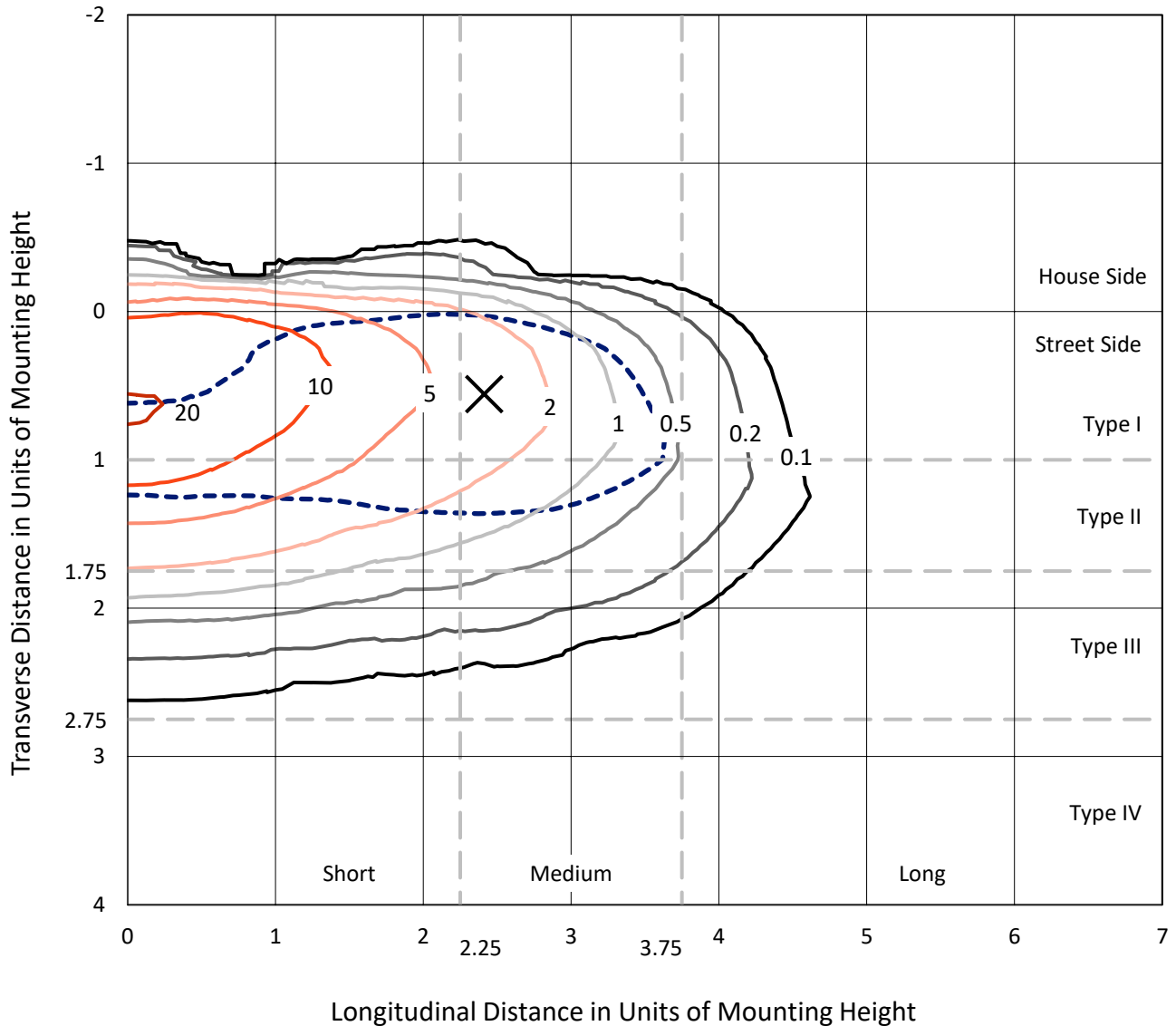
Lumens per Lamp: N/A
Luminaire Lumens: 7424.7 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

Input Watts (W): 63.8
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

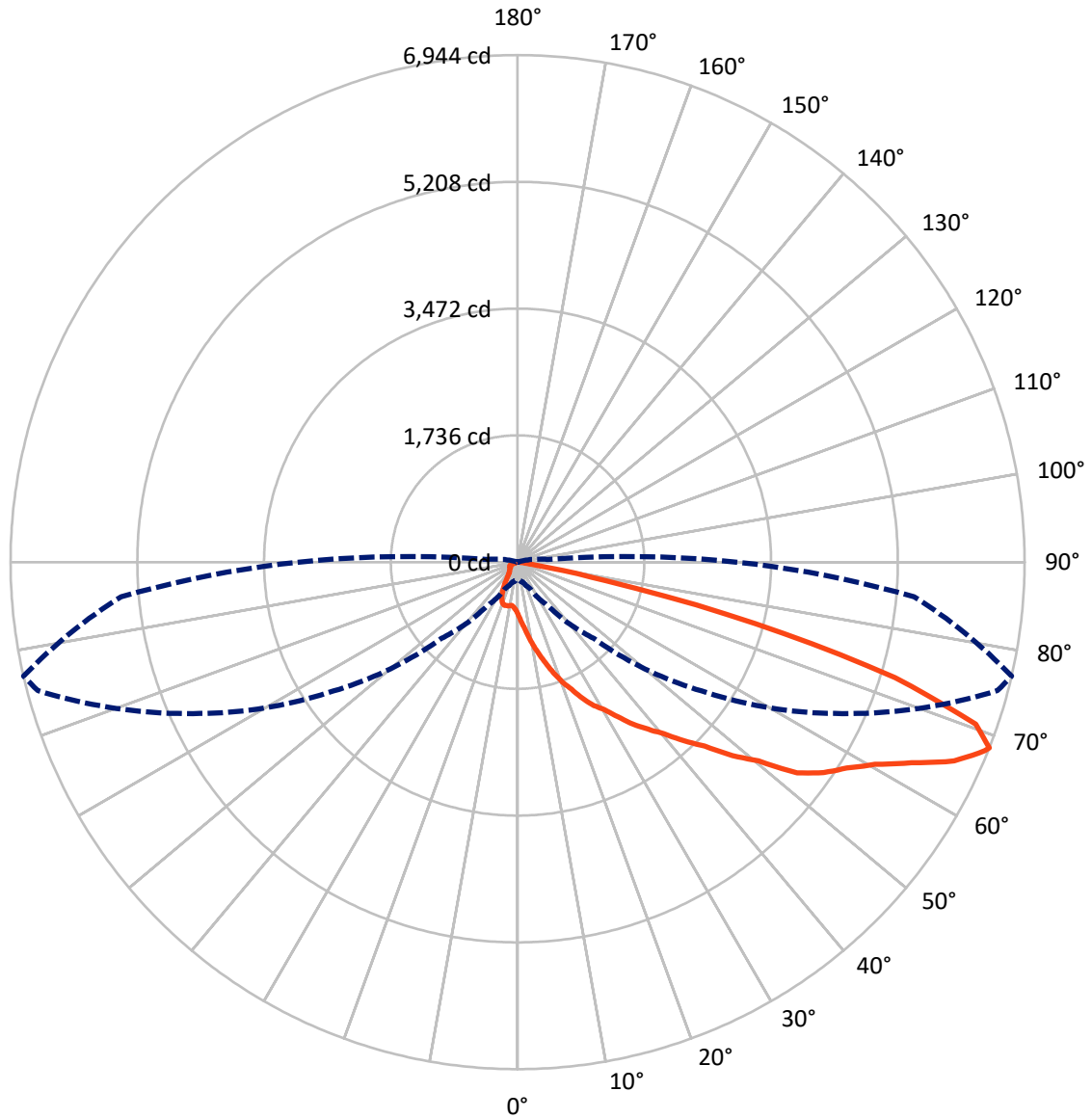
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 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	336.7	0.0	336.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	7088.0	0.0	7088.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	7424.7	0.0	7424.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.1
10°-20°	306.3	4.1
20°-30°	593.6	8.0
30°-40°	1034.9	13.9
40°-50°	1515.7	20.4
50°-60°	1780.7	24.0
60°-70°	1503.7	20.3
70°-80°	582.9	7.9
80°-90°	23.7	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°	7424.7	100.0
0°-180°	7424.7	100.0

Coefficient of Utilization



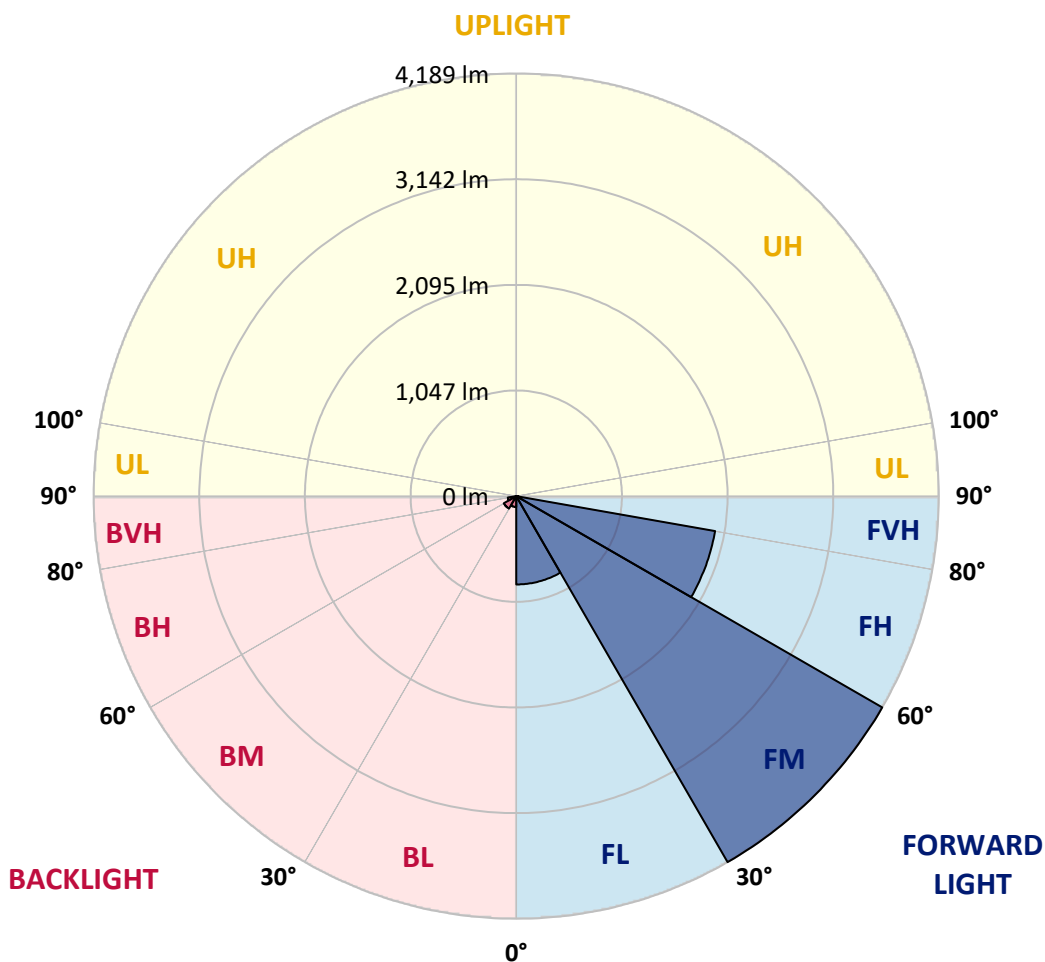
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	875.4	11.8			
FM (30°-60°)	4189.1	56.4			
FH (60°-80°)	2001.5	27.0			G2/5000
FVH (80°-90°)	21.9	0.3			G1/100
BL (0°-30°)	107.6	1.4	B0/110		
BM (30°-60°)	142.3	1.9	B0/220		
BH (60°-80°)	85.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9
2.5°	1080.2	1059.7	1038.3	1032.1	992.2	947.2	905.3	864.4	795.8	796.8	749.8
5°	1392.2	1366.6	1349.2	1345.1	1282.7	1205.0	1141.6	1026.0	912.4	886.9	800.9
7.5°	1648.9	1640.7	1615.2	1593.7	1547.7	1452.5	1377.9	1212.1	1039.3	1010.6	863.3
10°	1804.4	1816.7	1827.9	1800.3	1764.5	1696.0	1593.7	1414.7	1183.5	1147.7	944.1
12.5°	1970.1	1949.7	1956.8	1979.3	1932.3	1916.9	1790.1	1623.4	1352.3	1283.8	1046.4
15°	2013.1	2021.3	2038.7	2104.1	2135.8	2091.9	1982.4	1792.1	1527.2	1432.1	1141.6
17.5°	2041.7	2037.6	2059.1	2157.3	2205.4	2247.3	2178.8	1980.4	1679.6	1594.7	1260.2
20°	2077.5	2055.0	2102.1	2164.5	2276.0	2363.9	2360.9	2169.6	1839.2	1749.2	1377.9
22.5°	2210.5	2193.1	2231.0	2237.1	2314.8	2437.6	2467.3	2324.1	2002.9	1892.4	1504.7
25°	2456.0	2487.7	2442.7	2403.8	2427.4	2508.2	2529.7	2461.1	2167.5	2066.3	1631.5
27.5°	2815.0	2811.0	2722.0	2671.8	2615.6	2605.4	2620.7	2589.0	2297.5	2224.8	1735.9
30°	3200.7	3166.9	3085.1	2964.4	2840.6	2763.9	2742.4	2709.7	2449.9	2344.5	1839.2
32.5°	3507.6	3526.0	3434.9	3277.4	3071.8	2968.5	2865.2	2829.4	2617.6	2524.5	1957.8
35°	3789.9	3765.3	3692.7	3559.7	3375.6	3208.9	3047.2	2970.5	2819.1	2727.1	2088.8
37.5°	3998.6	4029.2	3891.1	3764.3	3581.2	3443.1	3284.6	3116.8	3026.8	2904.0	2248.4
40°	4196.0	4147.9	4054.8	3938.2	3768.4	3663.0	3558.7	3296.8	3247.7	3089.2	2428.4
42.5°	4161.2	4164.3	4113.1	4019.0	3896.3	3835.9	3800.1	3515.7	3448.2	3347.0	2604.3
45°	4019.0	4031.3	4048.7	4002.6	4012.9	3952.5	4048.7	3767.4	3700.9	3593.5	2806.9
47.5°	3862.5	3883.0	3878.9	3962.8	4057.9	4078.3	4318.7	4046.6	4018.0	3958.7	3087.1
50°	3602.7	3610.9	3689.6	3842.0	3972.0	4185.7	4521.3	4351.5	4395.4	4278.8	3420.6
52.5°	3158.7	3188.4	3390.9	3608.8	3870.7	4240.0	4658.3	4804.6	4916.1	4796.4	3740.8
55°	2597.2	2638.1	2837.6	3245.7	3629.3	4158.1	4783.1	5044.0	5270.0	5089.0	3935.1
57.5°	2089.8	2093.9	2272.9	2694.3	3286.6	3997.5	4846.5	5160.6	5464.4	5319.1	4172.4
60°	1592.7	1576.3	1736.9	2102.1	2709.7	3602.7	4688.0	5219.9	5706.8	5622.9	4457.8
62.5°	1025.0	999.4	1174.3	1530.3	2116.4	2945.0	4370.9	5220.9	6085.3	6053.6	4935.5
65°	507.4	490.0	640.3	938.0	1464.8	2252.4	3918.8	5201.5	6547.6	6568.1	5401.0
67.5°	268.0	274.1	322.2	475.7	844.9	1591.6	3237.5	4973.4	6783.9	6898.5	5513.5
68°	246.5	248.6	286.4	395.9	733.4	1476.1	3075.9	4906.9	6802.3	6943.5	5451.1
70°	200.5	203.6	216.9	248.6	396.9	960.5	2373.2	4342.3	6525.1	6654.0	4934.5
72.5°	159.6	168.8	177.0	190.3	233.2	504.3	1476.1	3383.8	5390.7	5405.1	3841.0
75°	121.7	128.9	145.3	156.5	182.1	277.2	702.7	2063.2	3537.2	3363.3	2262.7
77.5°	94.1	100.2	107.4	122.7	152.4	187.2	214.8	875.6	1502.7	1236.7	639.3
80°	56.3	60.4	83.9	96.2	133.0	126.8	84.9	243.5	304.8	240.4	116.6
82.5°	32.7	35.8	48.1	73.6	93.1	68.5	50.1	75.7	74.7	65.5	38.9
85°	1.0	2.0	26.6	44.0	32.7	18.4	30.7	31.7	26.6	24.5	17.4
87.5°	0.0	1.0	7.2	6.1	7.2	4.1	6.1	8.2	10.2	9.2	7.2
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°	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9	710.9
2.5°	718.1	695.6	645.5	607.6	566.7	542.1	517.6	502.2	494.1	489.0	493.0
5°	736.5	689.4	608.6	537.0	490.0	458.3	426.6	410.2	394.8	386.7	391.8
7.5°	777.4	706.8	572.8	495.1	439.9	390.8	350.9	319.1	300.7	284.4	287.4
10°	827.5	717.1	573.9	470.5	390.8	313.0	256.8	216.9	194.4	180.0	179.0
12.5°	878.7	757.0	577.9	446.0	330.4	235.3	168.8	139.1	125.8	118.7	118.7
15°	956.4	792.8	567.7	401.0	250.6	153.4	115.6	105.4	100.2	94.1	95.1
17.5°	1023.9	850.0	562.6	333.5	171.8	110.5	96.2	84.9	79.8	73.6	73.6
20°	1115.0	885.8	535.0	257.8	118.7	92.1	77.7	67.5	59.3	54.2	55.2
22.5°	1197.8	913.5	485.9	175.9	91.0	72.6	57.3	47.1	39.9	33.8	34.8
25°	1287.8	941.1	414.3	108.4	64.4	45.0	30.7	22.5	15.3	11.3	11.3
27.5°	1352.3	949.3	321.2	64.4	38.9	20.5	7.2	1.0	0.0	0.0	0.0
30°	1417.8	952.3	222.0	34.8	15.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1492.4	951.3	139.1	18.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1549.7	933.9	66.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1636.7	908.3	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1735.9	862.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1824.9	815.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1926.1	757.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2104.1	732.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2336.3	713.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2479.5	655.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2554.2	596.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2664.7	567.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2828.3	569.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3084.1	598.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3225.2	569.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3105.6	456.2	19.4	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	3002.2	419.4	19.4	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2481.6	273.1	18.4	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1807.5	151.4	15.3	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1051.6	75.7	11.3	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	274.1	37.8	9.2	5.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
80°	54.2	24.5	8.2	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.6	17.4	8.2	6.1	5.1	3.1	1.0	0.0	0.0	0.0	0.0
85°	13.3	8.2	8.2	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.1	3.1	3.1	3.1	2.0	1.0	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)