

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: P481935

Luminaire Tested: **IFLD-S-SA2B-727-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481935
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

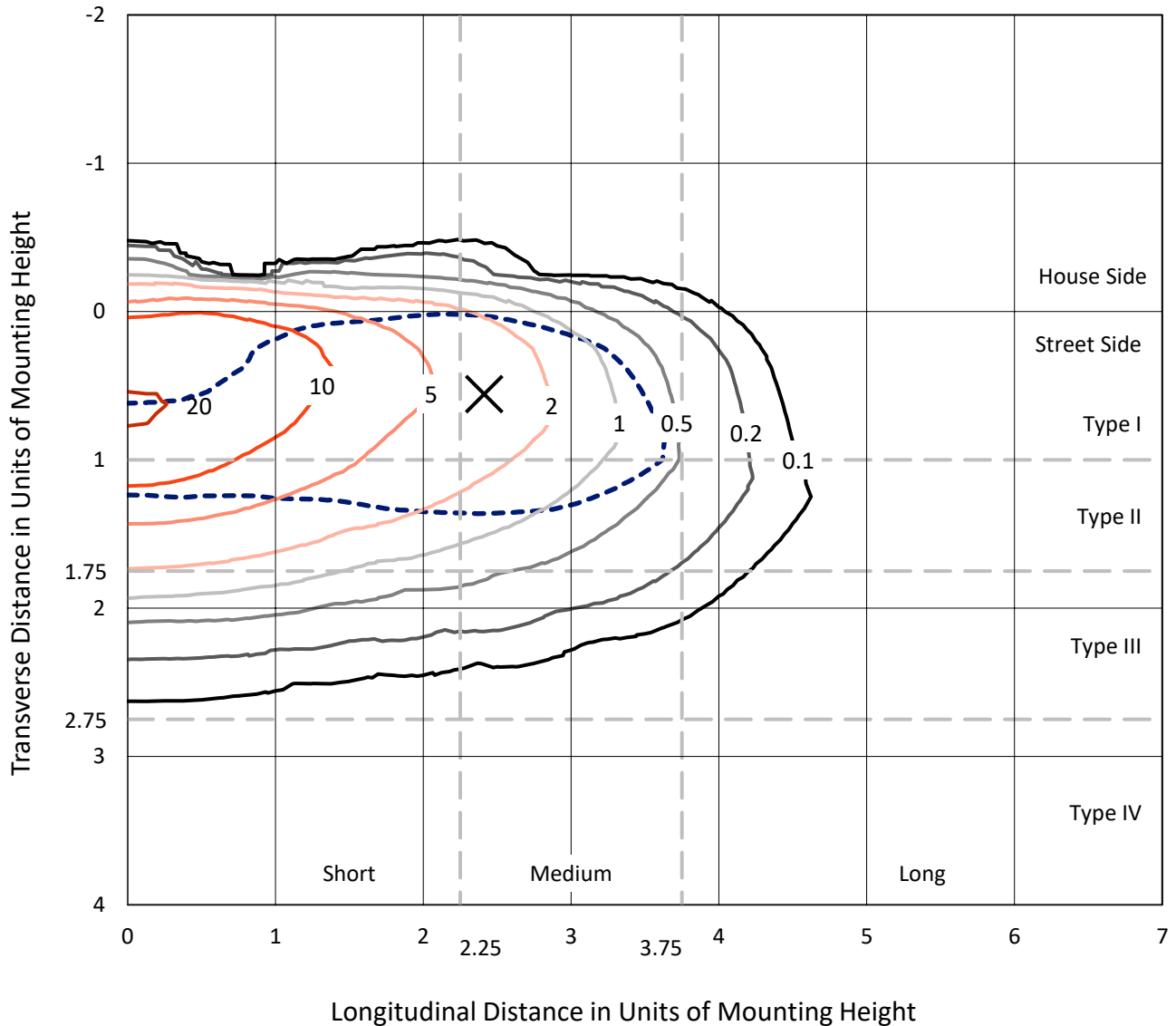
Lumens per Lamp: N/A
Luminaire Lumens: 7507.2 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P481935
 CATALOG NUMBER: IFLD-S-SA2B-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

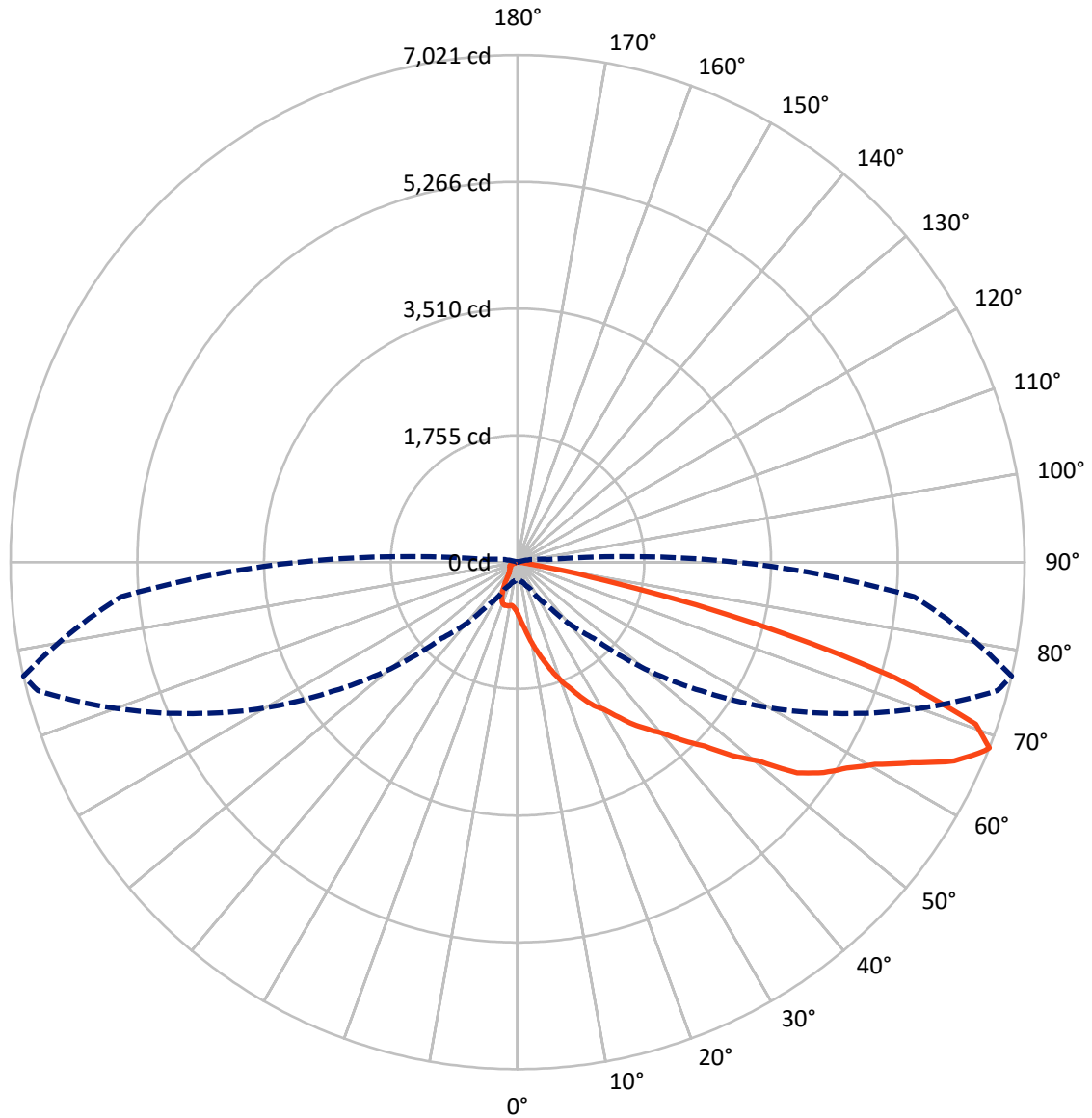
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P481935
CATALOG NUMBER: IFLD-S-SA2B-727-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481935
 CATALOG NUMBER: IFLD-S-SA2B-727-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	340.4	0.0	340.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	7166.8	0.0	7166.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	7507.2	0.0	7507.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.1
10°-20°	309.7	4.1
20°-30°	600.2	8.0
30°-40°	1046.4	13.9
40°-50°	1532.6	20.4
50°-60°	1800.6	24.0
60°-70°	1520.4	20.3
70°-80°	589.4	7.9
80°-90°	24.0	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°	7507.2	100.0
0°-180°	7507.2	100.0

Coefficient of Utilization



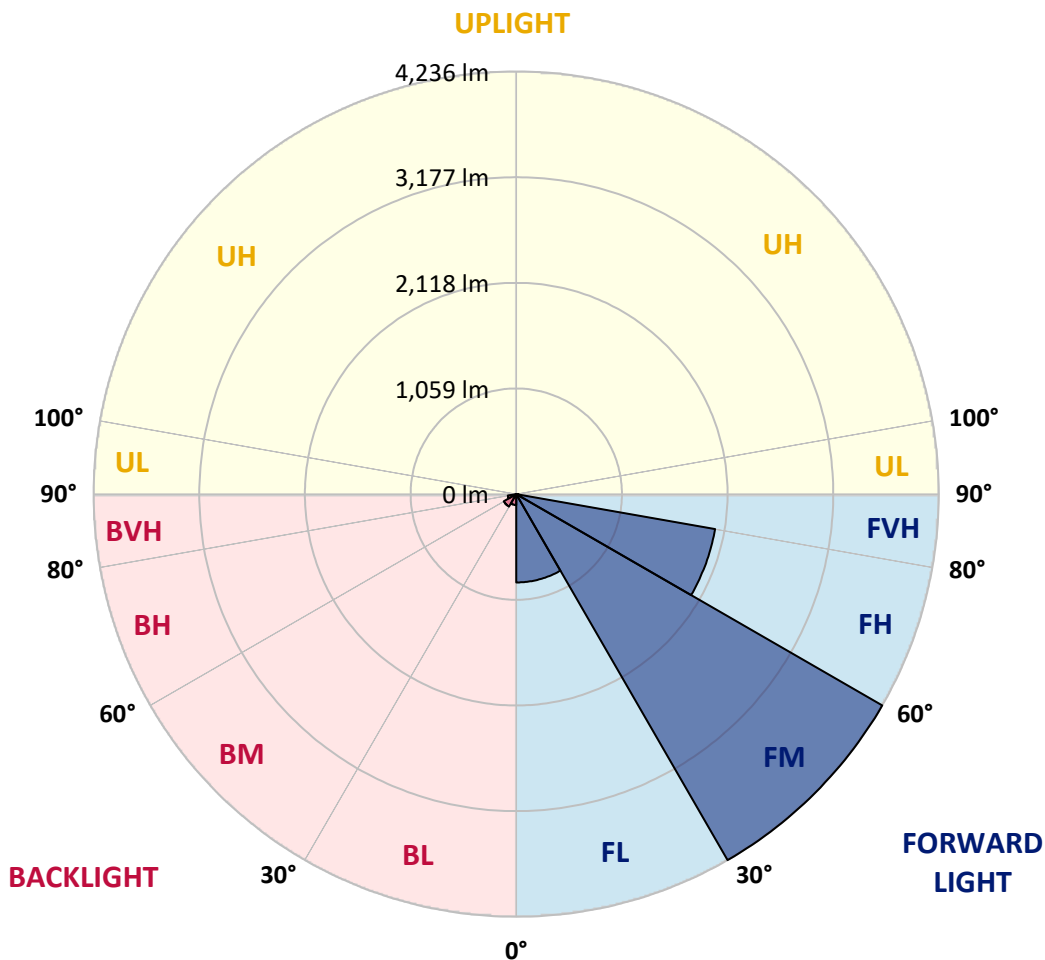
REPORT NUMBER: P481935
 CATALOG NUMBER: IFLD-S-SA2B-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.2	11.8			
FM (30°-60°)	4235.7	56.4			
FH (60°-80°)	2023.8	27.0			G2/5000
FVH (80°-90°)	22.1	0.3			G1/100
BL (0°-30°)	108.8	1.4	B0/110		
BM (30°-60°)	143.9	1.9	B0/220		
BH (60°-80°)	86.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.9	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





REPORT NUMBER: P481935

CATALOG NUMBER: IFLD-S-SA2B-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8
2.5°	1092.2	1071.5	1049.8	1043.6	1003.3	957.8	915.3	874.0	804.7	805.7	758.1
5°	1407.7	1381.8	1364.2	1360.1	1297.0	1218.4	1154.3	1037.4	922.6	896.7	809.8
7.5°	1667.3	1659.0	1633.1	1611.4	1564.9	1468.7	1393.2	1225.6	1050.8	1021.9	872.9
10°	1824.5	1836.9	1848.3	1820.3	1784.1	1714.8	1611.4	1430.4	1196.7	1160.5	954.6
12.5°	1992.0	1971.4	1978.6	2001.3	1953.8	1938.3	1810.0	1641.4	1367.3	1298.0	1058.1
15°	2035.5	2043.8	2061.3	2127.5	2159.6	2115.1	2004.4	1812.1	1544.2	1448.0	1154.3
17.5°	2064.4	2060.3	2082.0	2181.3	2229.9	2272.3	2203.0	2002.4	1698.3	1612.5	1274.2
20°	2100.6	2077.9	2125.5	2188.6	2301.3	2390.2	2387.1	2193.7	1859.6	1768.6	1393.2
22.5°	2235.1	2217.5	2255.8	2262.0	2340.6	2464.7	2494.7	2349.9	2025.1	1913.4	1521.4
25°	2483.3	2515.4	2469.9	2430.6	2454.4	2536.1	2557.8	2488.5	2191.7	2089.3	1649.7
27.5°	2846.4	2842.2	2752.2	2701.6	2644.7	2634.3	2649.8	2617.8	2323.0	2249.6	1755.2
30°	3236.3	3202.2	3119.4	2997.4	2872.2	2794.6	2772.9	2739.8	2477.1	2370.6	1859.6
32.5°	3546.6	3565.2	3473.1	3313.9	3106.0	3001.5	2897.0	2860.8	2646.7	2552.6	1979.6
35°	3832.0	3807.2	3733.8	3599.3	3413.1	3244.6	3081.1	3003.6	2850.5	2757.4	2112.0
37.5°	4043.0	4074.1	3934.4	3806.2	3621.0	3481.4	3321.1	3151.5	3060.5	2936.3	2273.4
40°	4242.6	4194.0	4099.9	3982.0	3810.3	3703.8	3598.3	3333.5	3283.9	3123.5	2455.4
42.5°	4207.5	4210.6	4158.9	4063.7	3939.6	3878.6	3842.4	3554.8	3486.6	3384.2	2633.3
45°	4063.7	4076.1	4093.7	4047.2	4057.5	3996.5	4093.7	3809.3	3742.1	3633.5	2838.1
47.5°	3905.5	3926.2	3922.0	4006.8	4103.0	4123.7	4366.8	4091.6	4062.7	4002.7	3121.5
50°	3642.8	3651.0	3730.7	3884.8	4016.1	4232.3	4571.6	4399.9	4444.3	4326.4	3458.7
52.5°	3193.9	3223.9	3428.7	3649.0	3913.7	4287.1	4710.1	4858.0	4970.8	4849.8	3782.4
55°	2626.1	2667.4	2869.1	3281.8	3669.7	4204.4	4836.3	5100.1	5328.7	5145.6	3978.9
57.5°	2113.1	2117.2	2298.2	2724.3	3323.2	4042.0	4900.5	5218.0	5525.2	5378.3	4218.9
60°	1610.4	1593.8	1756.2	2125.5	2739.8	3642.8	4740.1	5278.0	5770.3	5685.5	4507.4
62.5°	1036.4	1010.5	1187.4	1547.3	2139.9	2977.7	4419.5	5279.0	6153.0	6120.9	4990.4
65°	513.0	495.4	647.5	948.4	1481.1	2277.5	3962.4	5259.4	6620.5	6641.2	5461.0
67.5°	271.0	277.2	325.8	480.9	854.3	1609.4	3273.5	5028.7	6859.4	6975.2	5574.8
68°	249.3	251.3	289.6	400.3	741.6	1492.5	3110.1	4961.5	6878.0	7020.7	5511.7
70°	202.7	205.8	219.3	251.3	401.3	971.2	2399.5	4390.6	6597.7	6728.0	4989.4
72.5°	161.3	170.7	178.9	192.4	235.8	509.9	1492.5	3421.4	5450.7	5465.2	3883.8
75°	123.1	130.3	146.9	158.2	184.1	280.3	710.6	2086.2	3576.6	3400.7	2287.8
77.5°	95.2	101.4	108.6	124.1	154.1	189.3	217.2	885.4	1519.4	1250.5	646.4
80°	56.9	61.0	84.8	97.2	134.5	128.3	85.8	246.2	308.2	243.1	117.9
82.5°	33.1	36.2	48.6	74.5	94.1	69.3	50.7	76.5	75.5	66.2	39.3
85°	1.0	2.1	26.9	44.5	33.1	18.6	31.0	32.1	26.9	24.8	17.6
87.5°	0.0	1.0	7.2	6.2	7.2	4.1	6.2	8.3	10.3	9.3	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



REPORT NUMBER: P481935

CATALOG NUMBER: IFLD-S-SA2B-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8
2.5°	726.1	703.3	652.6	614.4	573.0	548.2	523.3	507.8	499.6	494.4	498.5
5°	744.7	697.1	615.4	543.0	495.4	463.4	431.3	414.7	399.2	391.0	396.1
7.5°	786.1	714.7	579.2	500.6	444.7	395.1	354.8	322.7	304.1	287.5	290.6
10°	836.7	725.0	580.2	475.8	395.1	316.5	259.6	219.3	196.5	182.0	181.0
12.5°	888.5	765.4	584.4	450.9	334.1	237.9	170.7	140.7	127.2	120.0	120.0
15°	967.1	801.6	574.0	405.4	253.4	155.1	116.9	106.5	101.4	95.2	96.2
17.5°	1035.3	859.5	568.9	337.2	173.8	111.7	97.2	85.8	80.7	74.5	74.5
20°	1127.4	895.7	540.9	260.6	120.0	93.1	78.6	68.3	60.0	54.8	55.9
22.5°	1211.2	923.6	491.3	177.9	92.1	73.4	57.9	47.6	40.3	34.1	35.2
25°	1302.2	951.5	418.9	109.6	65.2	45.5	31.0	22.8	15.5	11.4	11.4
27.5°	1367.3	959.8	324.8	65.2	39.3	20.7	7.2	1.0	0.0	0.0	0.0
30°	1433.5	962.9	224.4	35.2	15.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1509.0	961.9	140.7	18.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1566.9	944.3	67.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1654.9	918.4	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1755.2	871.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1845.2	824.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1947.6	765.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2127.5	740.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2362.3	720.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2507.1	663.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2582.6	603.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2694.3	574.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2859.8	576.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3118.4	605.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3261.1	576.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3140.1	461.3	19.7	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	3035.6	424.1	19.7	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2509.2	276.2	18.6	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1827.6	153.1	15.5	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1063.2	76.5	11.4	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	277.2	38.3	9.3	5.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
80°	54.8	24.8	8.3	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	25.9	17.6	8.3	6.2	5.2	3.1	1.0	0.0	0.0	0.0	0.0
85°	13.4	8.3	8.3	6.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0
87.5°	6.2	3.1	3.1	3.1	3.1	2.1	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)