

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: P481934

Luminaire Tested: **IFLD-S-SA2A-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481934
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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

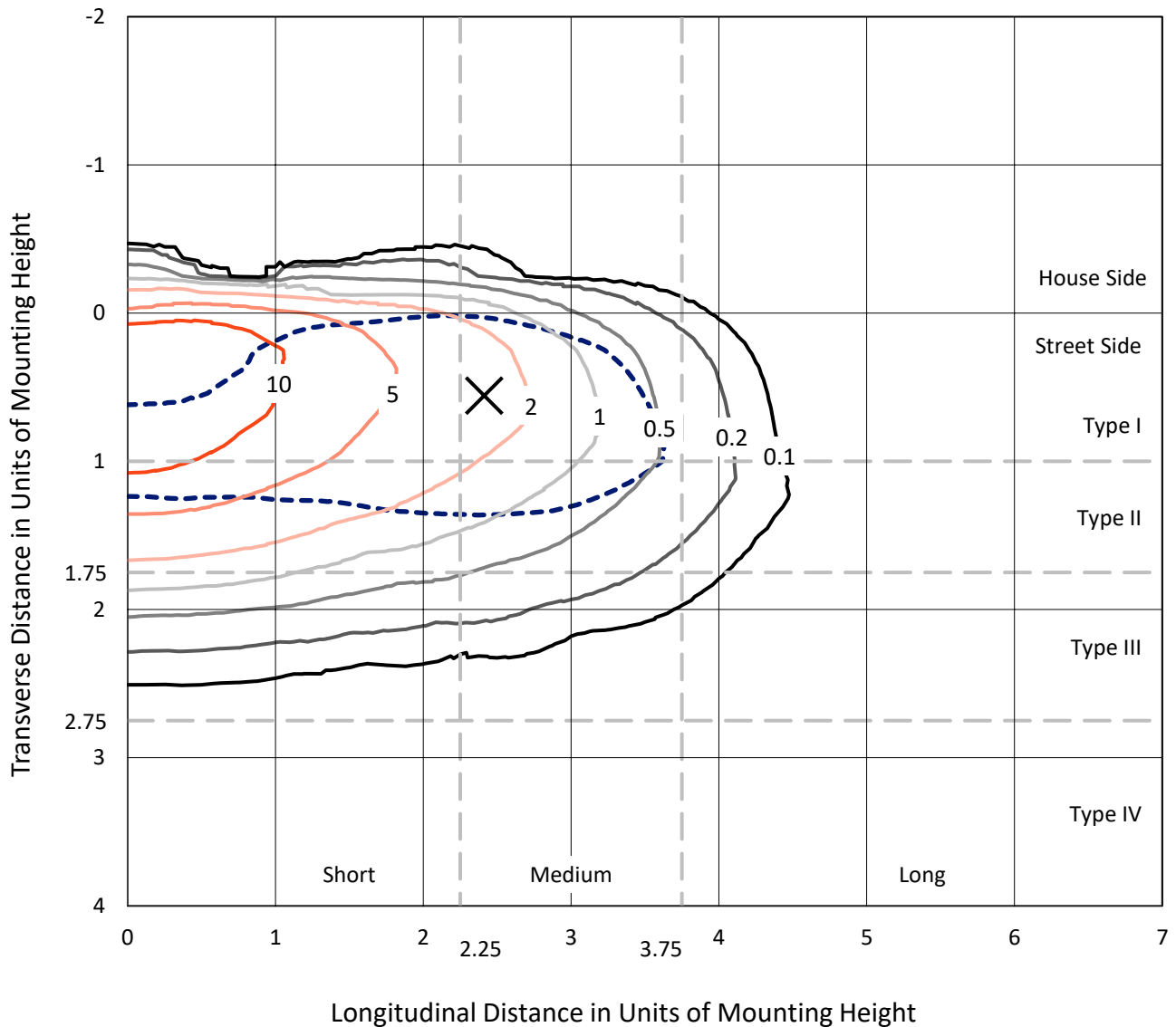
Lumens per Lamp: N/A
Luminaire Lumens: 6070.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

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

REPORT NUMBER: P481934
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

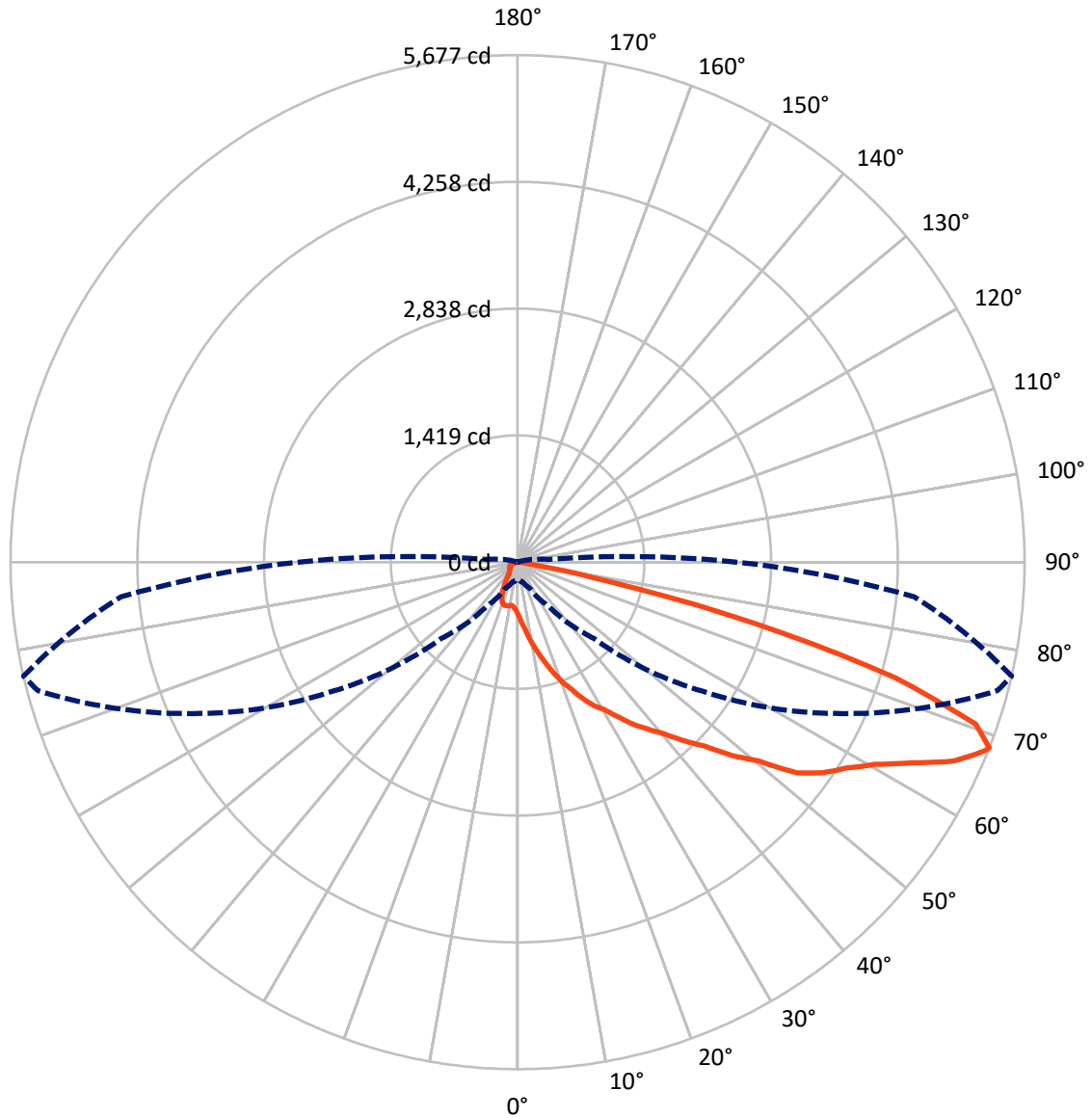
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P481934
CATALOG NUMBER: IFLD-S-SA2A-727-U-T2R-HSS

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	275.3	0.0	275.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	5795.0	0.0	5795.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	6070.2	0.0	6070.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.1
10°-20°	250.4	4.1
20°-30°	485.3	8.0
30°-40°	846.1	13.9
40°-50°	1239.2	20.4
50°-60°	1455.9	24.0
60°-70°	1229.4	20.3
70°-80°	476.5	7.9
80°-90°	19.4	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°	6070.2	100.0
0°-180°	6070.2	100.0

Coefficient of Utilization



REPORT NUMBER: P481934

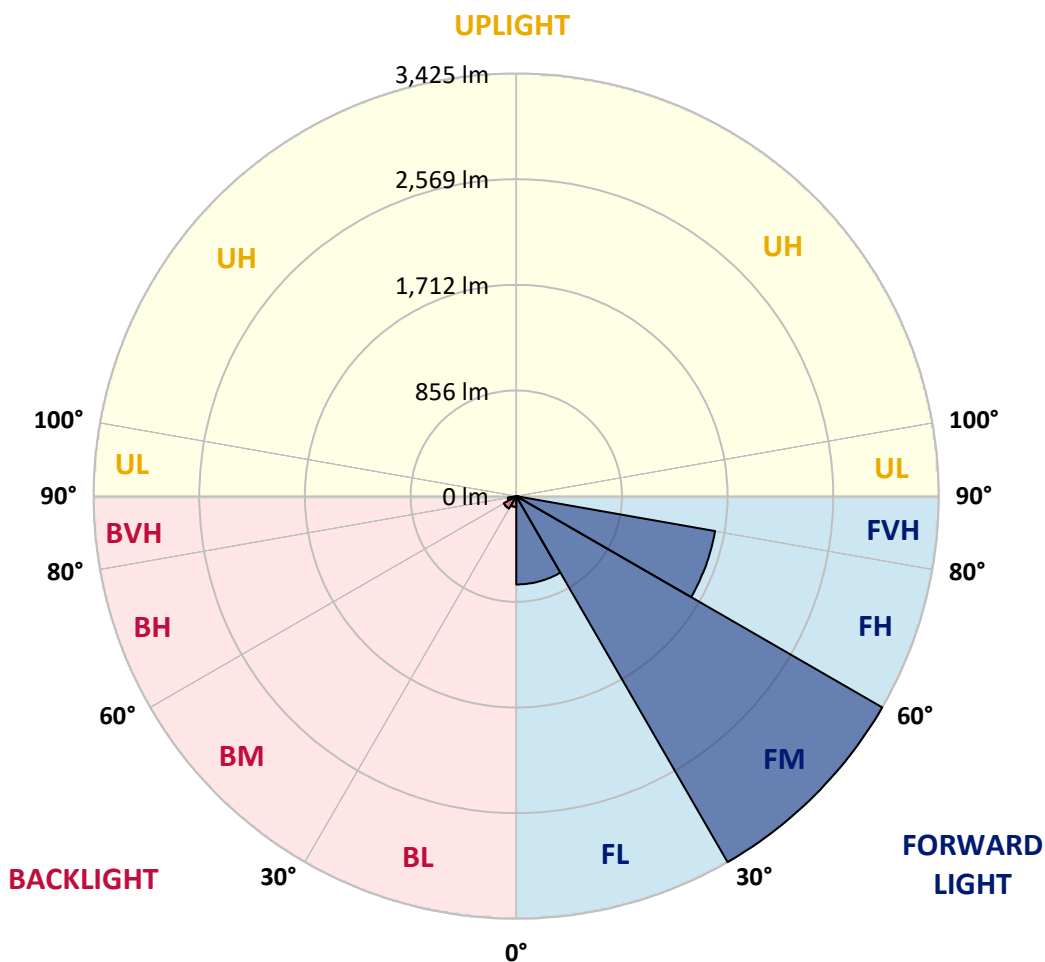
CATALOG NUMBER: IFLD-S-SA2A-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.7	11.8			
FM (30°-60°)	3424.9	56.4			
FH (60°-80°)	1636.4	27.0			G1/1800
FVH (80°-90°)	17.9	0.3			G1/100
BL (0°-30°)	88.0	1.4	B0/110		
BM (30°-60°)	116.3	1.9	B0/220		
BH (60°-80°)	69.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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-G1

Type II Medium





REPORT NUMBER: P481934

CATALOG NUMBER: IFLD-S-SA2A-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2
2.5°	883.1	866.4	848.9	843.8	811.2	774.4	740.1	706.7	650.6	651.5	613.0
5°	1138.2	1117.3	1103.1	1099.7	1048.7	985.2	933.3	838.8	746.0	725.1	654.8
7.5°	1348.1	1341.4	1320.5	1303.0	1265.3	1187.6	1126.5	991.0	849.7	826.3	705.8
10°	1475.2	1485.3	1494.5	1471.9	1442.6	1386.6	1303.0	1156.6	967.6	938.3	771.9
12.5°	1610.7	1594.0	1599.9	1618.3	1579.8	1567.2	1463.5	1327.2	1105.6	1049.6	855.5
15°	1645.9	1652.5	1666.8	1720.3	1746.2	1710.2	1620.8	1465.2	1248.6	1170.8	933.3
17.5°	1669.3	1665.9	1683.5	1763.8	1803.1	1837.4	1781.3	1619.1	1373.2	1303.8	1030.3
20°	1698.5	1680.1	1718.6	1769.6	1860.8	1932.7	1930.2	1773.8	1503.7	1430.1	1126.5
22.5°	1807.3	1793.0	1824.0	1829.0	1892.6	1992.9	2017.2	1900.1	1637.5	1547.2	1230.2
25°	2008.0	2033.9	1997.1	1965.3	1984.6	2050.6	2068.2	2012.2	1772.1	1689.3	1333.9
27.5°	2301.5	2298.2	2225.4	2184.4	2138.4	2130.1	2142.6	2116.7	1878.3	1819.0	1419.2
30°	2616.8	2589.2	2522.3	2423.6	2322.4	2259.7	2242.1	2215.4	2003.0	1916.8	1503.7
32.5°	2867.7	2882.8	2808.3	2679.5	2511.4	2427.0	2342.5	2313.2	2140.1	2064.0	1600.7
35°	3098.5	3078.4	3019.1	2910.4	2759.8	2623.5	2491.4	2428.6	2304.9	2229.6	1707.7
37.5°	3269.1	3294.2	3181.3	3077.6	2927.9	2815.0	2685.4	2548.2	2474.6	2374.3	1838.2
40°	3430.5	3391.2	3315.1	3219.8	3081.0	2994.8	2909.5	2695.4	2655.3	2525.7	1985.4
42.5°	3402.1	3404.6	3362.8	3285.9	3185.5	3136.2	3106.9	2874.4	2819.2	2736.4	2129.2
45°	3285.9	3295.9	3310.1	3272.5	3280.8	3231.5	3310.1	3080.1	3025.8	2937.9	2294.8
47.5°	3157.9	3174.6	3171.3	3239.9	3317.6	3334.4	3530.9	3308.4	3285.0	3236.5	2524.0
50°	2945.5	2952.2	3016.6	3141.2	3247.4	3422.2	3696.5	3557.7	3593.6	3498.3	2796.6
52.5°	2582.5	2606.8	2772.4	2950.5	3164.6	3466.5	3808.5	3928.1	4019.3	3921.4	3058.4
55°	2123.4	2156.8	2319.9	2653.6	2967.2	3399.6	3910.6	4123.8	4308.7	4160.6	3217.3
57.5°	1708.6	1711.9	1858.3	2202.8	2687.1	3268.3	3962.4	4219.2	4467.6	4348.8	3411.3
60°	1302.1	1288.8	1420.1	1718.6	2215.4	2945.5	3832.8	4267.7	4665.8	4597.2	3644.6
62.5°	838.0	817.1	960.1	1251.1	1730.3	2407.7	3573.5	4268.5	4975.2	4949.3	4035.2
65°	414.8	400.6	523.5	766.9	1197.6	1841.6	3203.9	4252.6	5353.2	5369.9	4415.7
67.5°	219.1	224.1	263.4	388.9	690.8	1301.3	2646.9	4066.1	5546.4	5640.1	4507.7
68°	201.6	203.2	234.2	323.7	599.6	1206.8	2514.8	4011.8	5561.4	5676.9	4456.7
70°	163.9	166.4	177.3	203.2	324.5	785.3	1940.2	3550.1	5334.8	5440.2	4034.3
72.5°	130.5	138.0	144.7	155.6	190.7	412.3	1206.8	2766.5	4407.3	4419.1	3140.3
75°	99.5	105.4	118.8	128.0	148.9	226.6	574.5	1686.8	2892.0	2749.8	1849.9
77.5°	76.9	82.0	87.8	100.4	124.6	153.0	175.6	715.9	1228.5	1011.1	522.7
80°	46.0	49.3	68.6	78.6	108.7	103.7	69.4	199.0	249.2	196.5	95.3
82.5°	26.8	29.3	39.3	60.2	76.1	56.0	41.0	61.9	61.1	53.5	31.8
85°	0.8	1.7	21.7	36.0	26.8	15.1	25.1	25.9	21.7	20.1	14.2
87.5°	0.0	0.8	5.9	5.0	5.9	3.3	5.0	6.7	8.4	7.5	5.9
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: P481934

CATALOG NUMBER: IFLD-S-SA2A-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2
2.5°	587.1	568.7	527.7	496.8	463.3	443.2	423.2	410.6	403.9	399.8	403.1
5°	602.1	563.7	497.6	439.1	400.6	374.7	348.7	335.4	322.8	316.1	320.3
7.5°	635.6	577.9	468.3	404.8	359.6	319.5	286.9	260.9	245.9	232.5	235.0
10°	676.6	586.3	469.2	384.7	319.5	255.9	209.9	177.3	158.9	147.2	146.4
12.5°	718.4	618.9	472.5	364.6	270.1	192.4	138.0	113.7	102.9	97.0	97.0
15°	781.9	648.1	464.2	327.8	204.9	125.4	94.5	86.1	82.0	76.9	77.8
17.5°	837.1	695.0	460.0	272.6	140.5	90.3	78.6	69.4	65.2	60.2	60.2
20°	911.6	724.2	437.4	210.7	97.0	75.3	63.6	55.2	48.5	44.3	45.2
22.5°	979.3	746.8	397.2	143.8	74.4	59.4	46.8	38.5	32.6	27.6	28.4
25°	1052.9	769.4	338.7	88.6	52.7	36.8	25.1	18.4	12.5	9.2	9.2
27.5°	1105.6	776.1	262.6	52.7	31.8	16.7	5.9	0.8	0.0	0.0	0.0
30°	1159.1	778.6	181.5	28.4	12.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1220.2	777.8	113.7	15.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	1267.0	763.5	54.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1338.1	742.6	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1419.2	705.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1492.0	666.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1574.8	618.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1720.3	598.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1910.1	582.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2027.2	536.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2088.3	487.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2178.6	464.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2312.4	465.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2521.5	489.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2636.9	465.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2539.0	373.0	15.9	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	2454.6	342.9	15.9	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	2028.9	223.3	15.1	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1477.8	123.8	12.5	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	859.7	61.9	9.2	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	224.1	30.9	7.5	4.2	2.5	0.8	0.0	0.0	0.0	0.0	0.0
80°	44.3	20.1	6.7	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	20.9	14.2	6.7	5.0	4.2	2.5	0.8	0.0	0.0	0.0	0.0
85°	10.9	6.7	6.7	5.0	5.0	3.3	1.7	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	2.5	2.5	1.7	0.8	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)