

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: P482714

Luminaire Tested: **IFLD-S-SA2A-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482714  
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-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

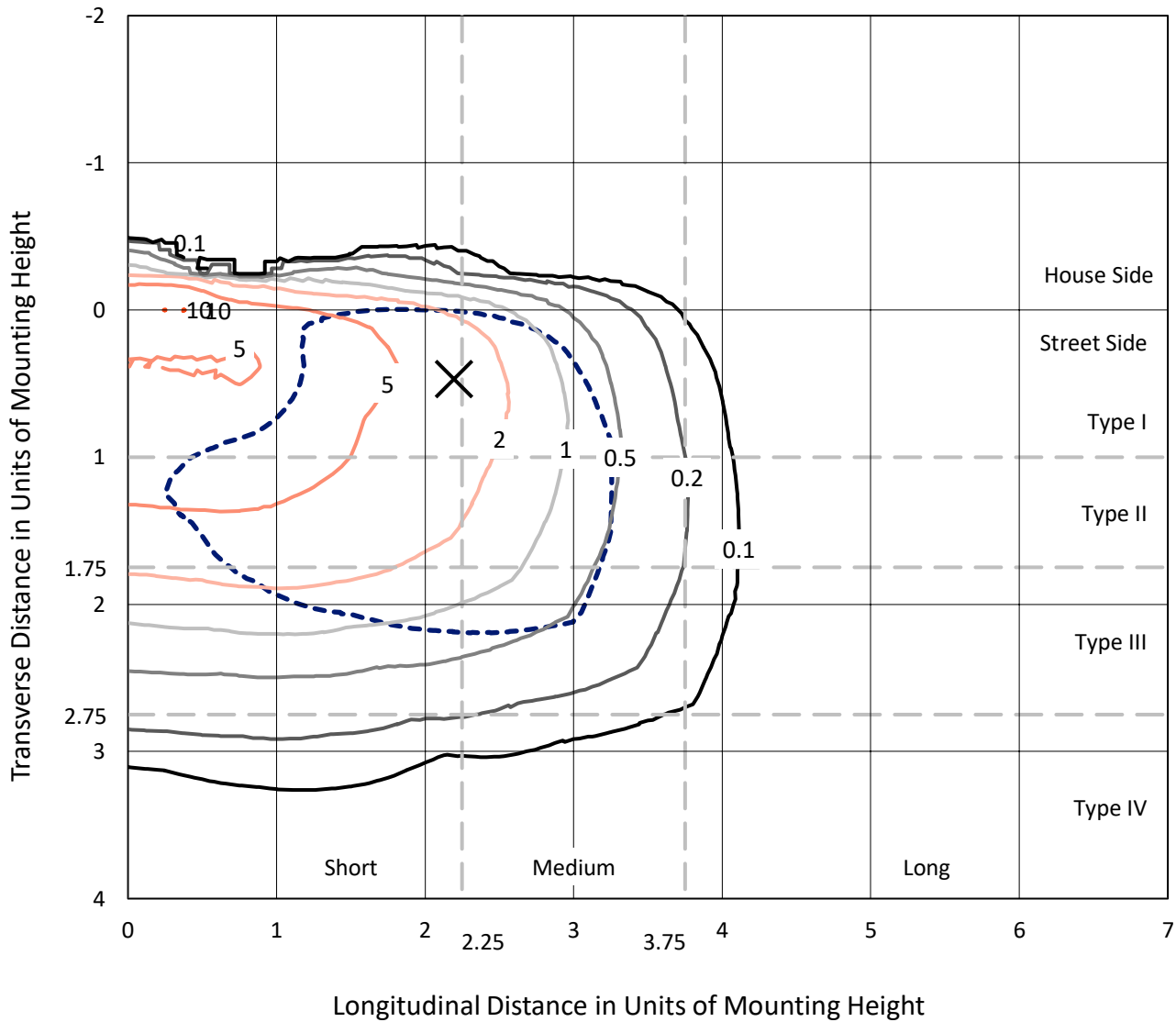
Lumens per Lamp: N/A  
Luminaire Lumens: 5534.5 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

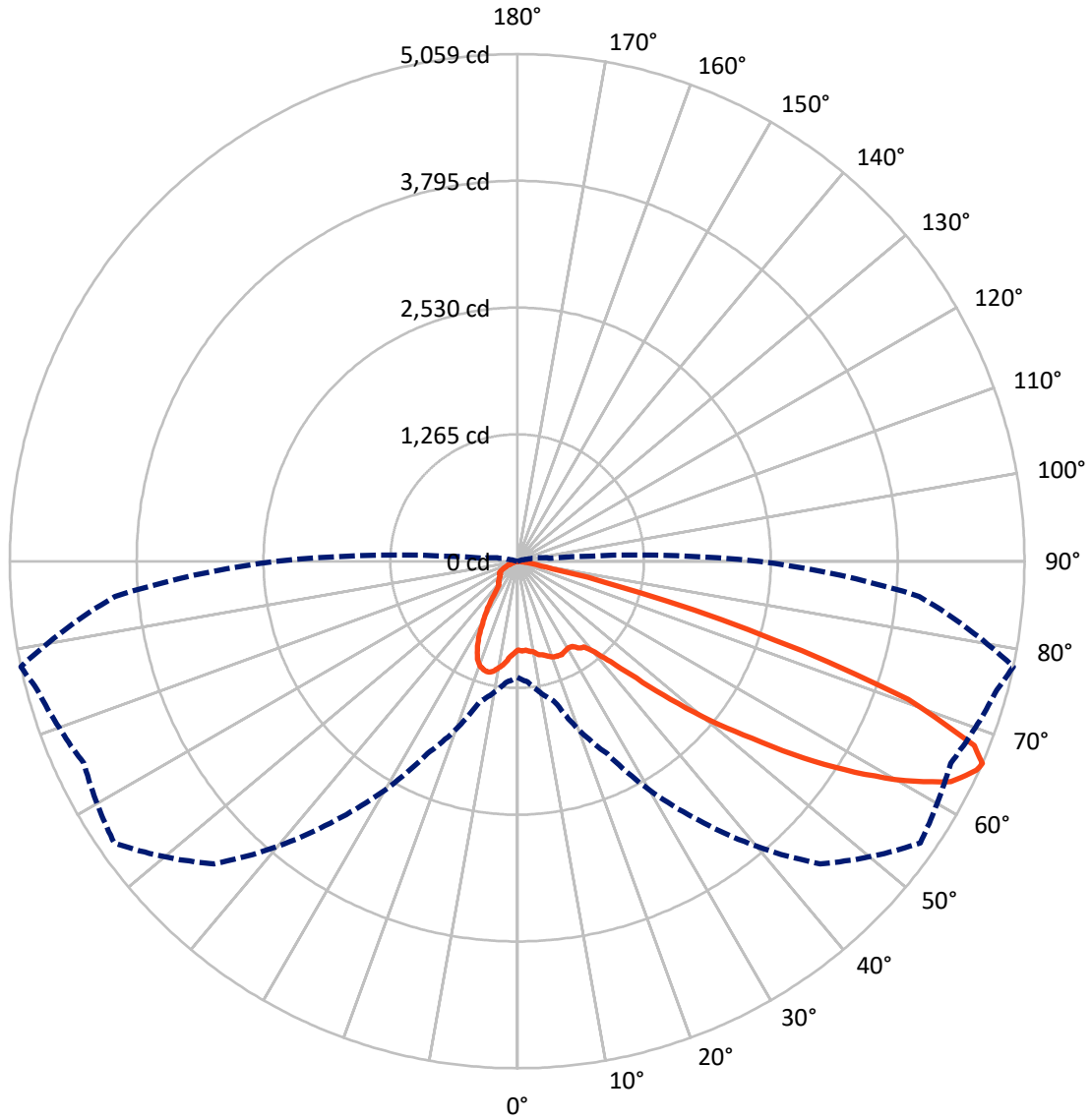
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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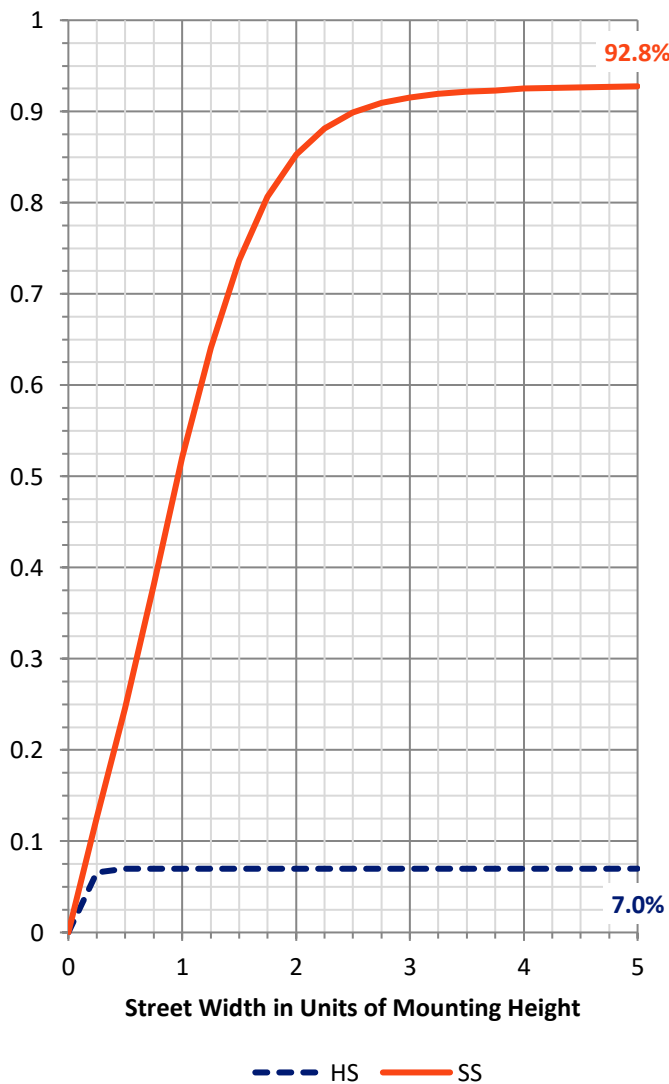
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	389.1	0.0	389.1
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	5145.4	0.0	5145.4
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	5534.5	0.0	5534.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	1.5
10°-20°	183.1	3.3
20°-30°	261.7	4.7
30°-40°	447.9	8.1
40°-50°	808.4	14.6
50°-60°	1382.4	25.0
60°-70°	1701.5	30.7
70°-80°	643.3	11.6
80°-90°	25.1	0.5
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°	5534.5	100.0
0°-180°	5534.5	100.0

**Coefficient of Utilization**



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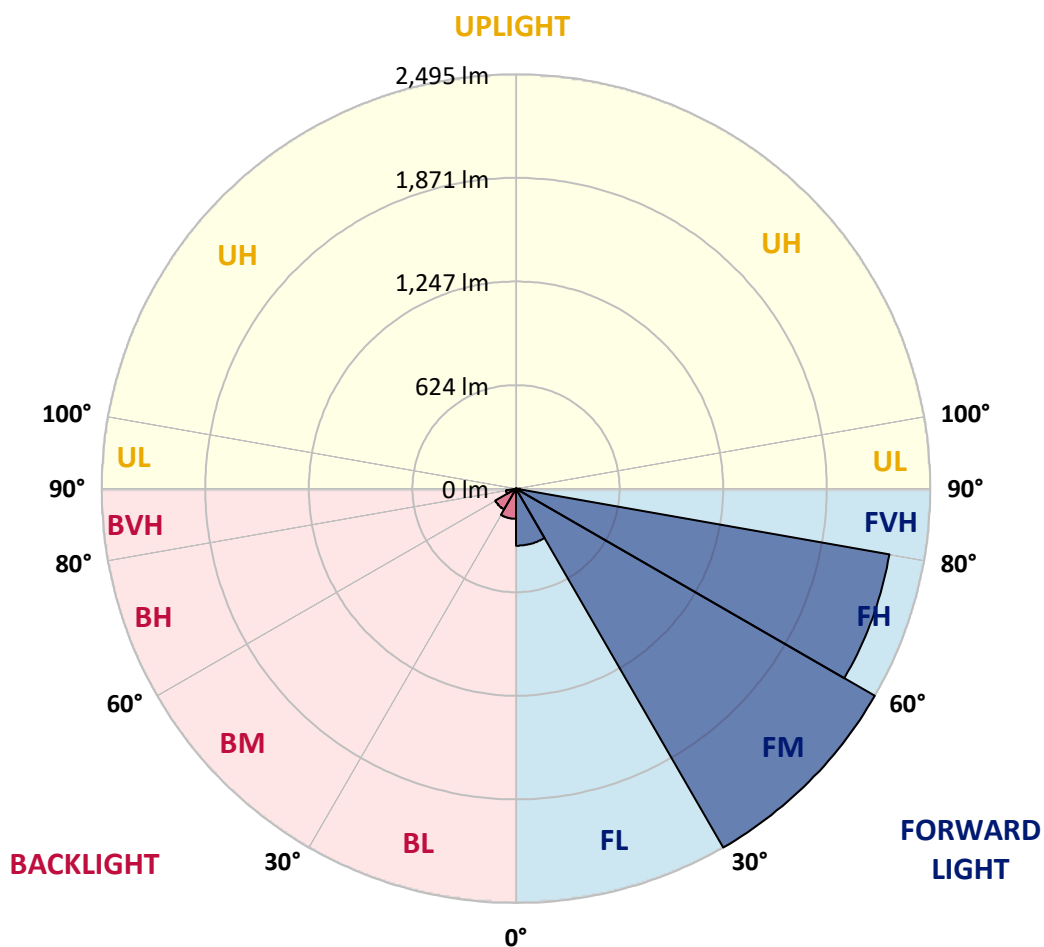
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.6	6.2			
FM (30°-60°)	2494.5	45.1			
FH (60°-80°)	2283.2	41.3			G2/5000
FVH (80°-90°)	24.1	0.4			G1/100
BL (0°-30°)	182.2	3.3	B1/500		
BM (30°-60°)	144.2	2.6	B0/220		
BH (60°-80°)	61.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4
2.5°	815.4	807.8	815.4	826.2	832.1	837.1	854.7	869.7	885.6	896.5	893.1
5°	756.0	770.2	771.9	775.2	784.4	814.5	824.6	850.5	889.8	893.1	908.2
7.5°	709.2	705.0	715.8	737.6	761.0	778.6	807.8	853.0	894.0	908.2	937.5
10°	641.4	649.8	661.5	683.2	711.7	755.2	807.0	857.2	915.7	920.7	975.1
12.5°	604.6	596.3	614.7	637.2	685.7	725.9	789.4	849.7	929.1	956.7	1019.4
15°	574.5	578.7	596.3	611.3	651.5	702.5	776.9	868.0	951.7	970.9	1066.2
17.5°	562.0	559.5	572.8	587.9	637.2	694.9	771.9	868.9	971.7	996.8	1098.0
20°	567.8	572.8	568.7	582.9	613.8	672.4	779.4	884.8	986.8	1021.1	1132.3
22.5°	659.8	653.1	619.7	592.9	594.6	663.2	773.5	894.8	1000.2	1027.8	1155.7
25°	899.8	863.9	781.1	678.2	610.5	638.1	766.9	891.5	997.7	1032.0	1169.9
27.5°	1141.5	1110.6	1029.4	869.7	674.9	628.0	743.4	894.0	985.1	1016.9	1146.5
30°	1396.6	1413.3	1292.9	1103.0	843.8	683.2	728.4	880.6	976.8	1003.5	1151.5
32.5°	1658.3	1651.6	1578.9	1373.2	1085.5	805.3	752.6	894.0	987.6	1013.6	1180.8
35°	1863.2	1839.8	1766.2	1580.6	1285.3	989.3	836.3	957.5	1035.3	1066.2	1222.6
37.5°	1964.4	1974.4	1931.8	1770.4	1504.4	1159.9	940.8	957.5	1050.4	1086.3	1290.4
40°	2043.0	2073.1	2057.2	2005.4	1721.9	1352.2	1056.2	1016.9	1126.5	1194.2	1417.5
42.5°	2137.5	2123.3	2217.0	2169.3	2006.2	1594.8	1258.6	1158.2	1306.3	1371.5	1608.1
45°	2187.7	2242.0	2313.1	2374.2	2269.6	1897.5	1522.8	1408.3	1581.4	1664.2	1891.6
47.5°	2316.5	2338.2	2453.6	2530.6	2483.7	2243.7	1924.3	1773.7	1927.6	2058.1	2216.1
50°	2391.7	2362.5	2523.9	2640.9	2667.7	2530.6	2283.9	2166.8	2339.0	2505.5	2519.7
52.5°	2325.7	2409.3	2570.7	2780.6	2855.0	2786.5	2706.2	2655.2	2776.4	2930.3	2861.7
55°	2094.0	2150.9	2543.9	2933.6	3173.6	3141.9	3216.3	3182.8	3304.9	3468.0	3261.5
57.5°	1907.5	1978.6	2324.0	3013.1	3470.5	3564.2	3657.8	3636.9	3784.1	3972.3	3600.1
60°	1791.3	1832.3	2165.1	2993.0	3646.1	4000.7	4212.3	4065.1	4305.1	4449.0	3865.2
62.5°	1589.7	1615.7	1933.5	2727.1	3698.8	4309.3	4668.1	4468.2	4676.4	4852.0	4055.9
65°	1274.5	1344.7	1607.3	2329.0	3350.9	4366.2	4952.4	4717.4	4918.9	5034.3	4113.6
66°	1159.9	1210.9	1451.8	2118.3	3152.7	4271.7	4904.7	4769.2	4954.1	5059.4	4025.0
67.5°	962.5	1006.9	1198.4	1818.1	2747.1	4063.4	4938.2	4734.1	4980.8	4916.4	3906.2
70°	637.2	665.7	819.5	1229.3	1913.4	3324.2	4580.3	4459.8	4378.7	4137.0	3054.1
72.5°	297.7	338.7	511.8	745.1	1122.3	2325.7	3734.8	3573.4	3070.8	2684.4	1926.8
75°	134.6	153.0	281.0	427.3	503.4	1205.1	2409.3	2176.0	1528.7	1269.5	843.8
77.5°	72.8	82.8	137.1	203.2	183.1	422.3	1192.5	991.8	481.7	352.9	245.0
80°	56.0	66.1	114.6	116.2	67.7	109.6	443.2	306.9	120.4	91.2	58.5
82.5°	29.3	41.8	90.3	75.3	34.3	44.3	137.1	85.3	37.6	30.1	25.1
85°	11.7	18.4	51.0	50.2	20.1	15.1	38.5	25.9	15.1	12.5	11.7
87.5°	0.8	0.8	27.6	19.2	12.5	4.2	5.9	5.9	7.5	6.7	8.4
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°	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4	886.4
2.5°	908.2	918.2	919.9	947.5	953.3	947.5	962.5	960.0	966.7	961.7	952.5
5°	929.1	943.3	970.9	991.8	991.8	975.1	961.7	944.1	918.2	911.5	906.5
7.5°	965.1	1010.2	1035.3	1021.9	995.2	932.4	845.5	781.9	728.4	708.3	699.1
10°	1028.6	1053.7	1083.0	1028.6	917.4	784.4	638.1	541.9	466.6	449.9	437.4
12.5°	1069.6	1109.7	1126.5	991.8	773.5	575.4	416.5	307.7	255.1	214.9	208.2
15°	1123.1	1169.1	1134.8	892.3	609.6	377.2	215.8	134.6	109.6	102.9	102.9
17.5°	1159.9	1210.1	1100.5	768.5	432.4	200.7	107.0	92.8	91.2	92.0	90.3
20°	1224.3	1254.4	1048.7	624.7	258.4	102.9	86.1	82.8	81.1	83.6	82.0
22.5°	1248.6	1276.1	964.2	452.4	116.2	68.6	64.4	61.9	63.6	62.7	61.9
25°	1246.9	1261.1	825.4	259.2	34.3	26.8	24.3	24.3	22.6	23.4	22.6
27.5°	1259.4	1224.3	669.9	76.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1266.1	1164.9	476.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1269.5	1134.0	306.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1295.4	1072.1	131.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1312.9	992.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1385.7	967.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1480.2	920.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1611.5	851.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1785.4	810.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1915.1	746.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2079.8	707.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2275.5	709.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2453.6	697.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2544.8	596.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2525.5	482.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2458.6	378.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	2412.6	335.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2273.0	268.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1808.9	184.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1150.7	112.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	530.2	51.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	166.4	31.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.5	20.1	6.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.6	14.2	5.9	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.2	5.9	2.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	3.3	1.7	1.7	0.8	0.0	0.0	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)