

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: P482948

Luminaire Tested: **IFLD-S-SA2A-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

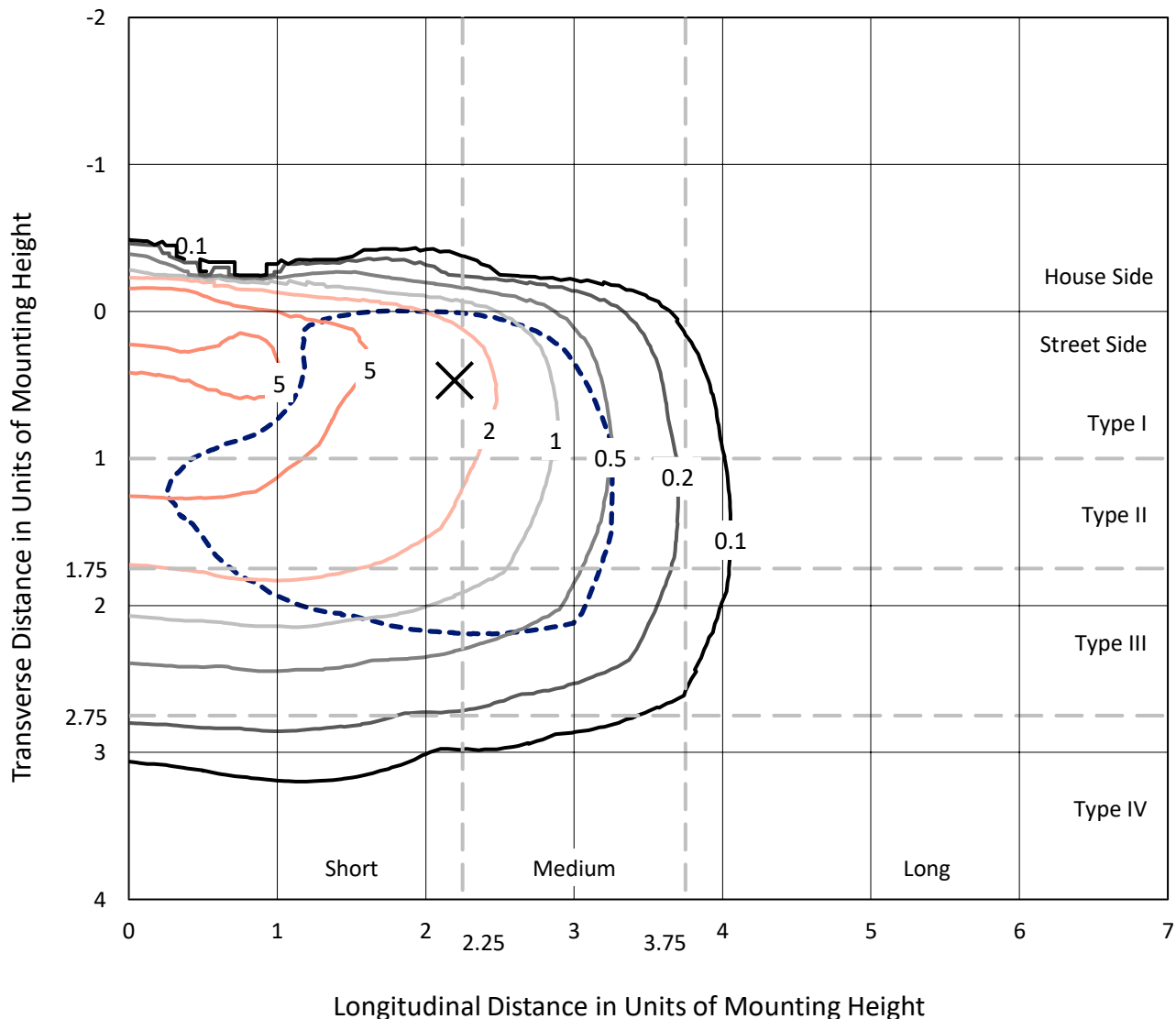
Lumens per Lamp: N/A
Luminaire Lumens: 4864.8 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (A_{in}): 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

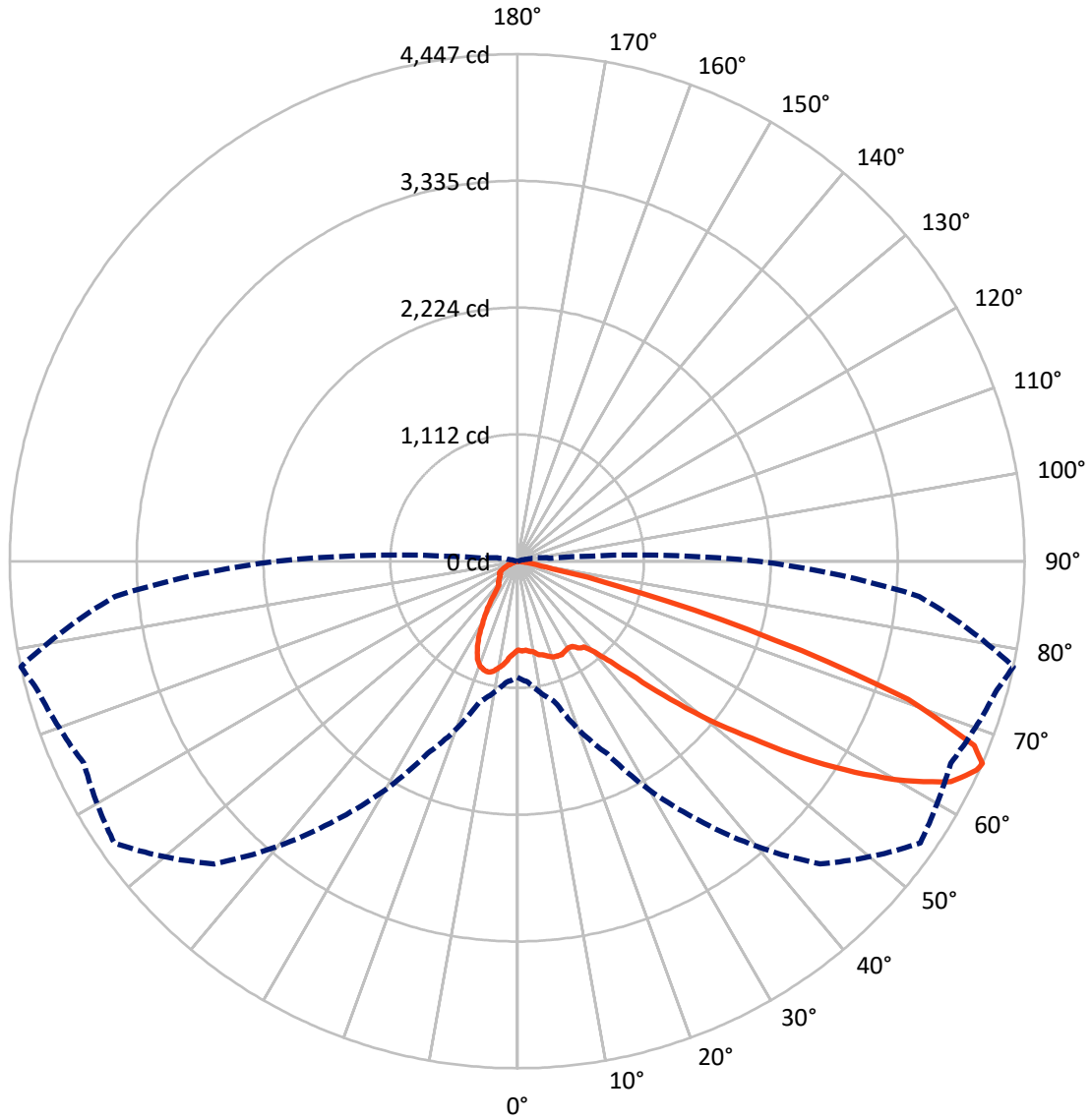
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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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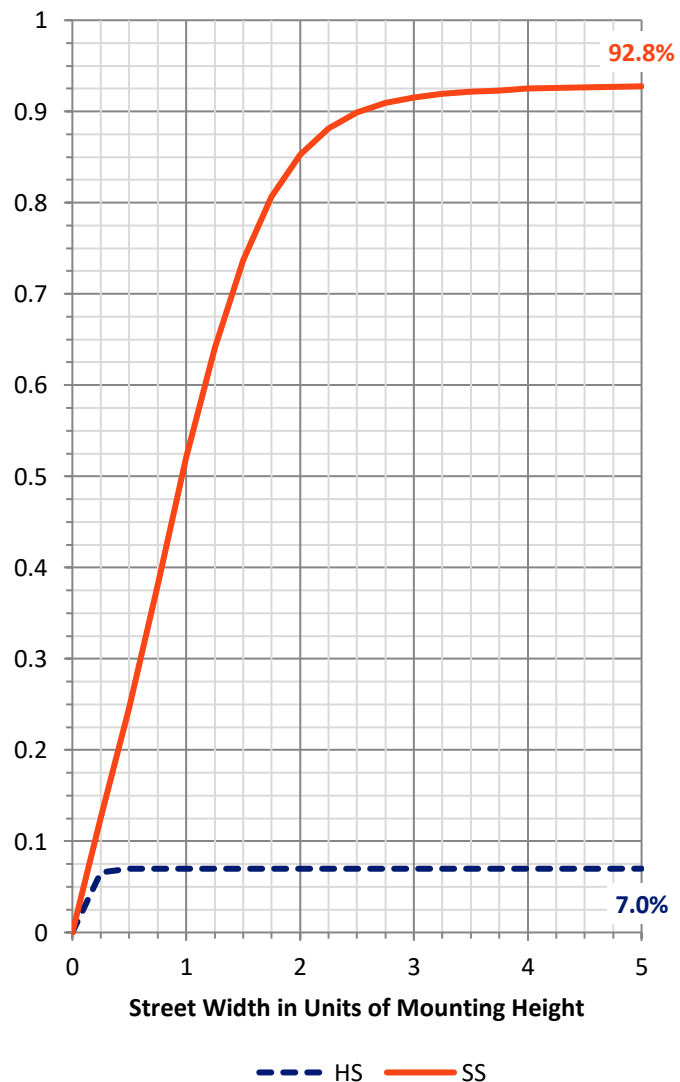
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	342.0	0.0	342.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	4522.8	0.0	4522.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	4864.8	0.0	4864.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	1.5
10°-20°	160.9	3.3
20°-30°	230.0	4.7
30°-40°	393.7	8.1
40°-50°	710.6	14.6
50°-60°	1215.2	25.0
60°-70°	1495.6	30.7
70°-80°	565.4	11.6
80°-90°	22.1	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°	4864.8	100.0
0°-180°	4864.8	100.0

Coefficient of Utilization

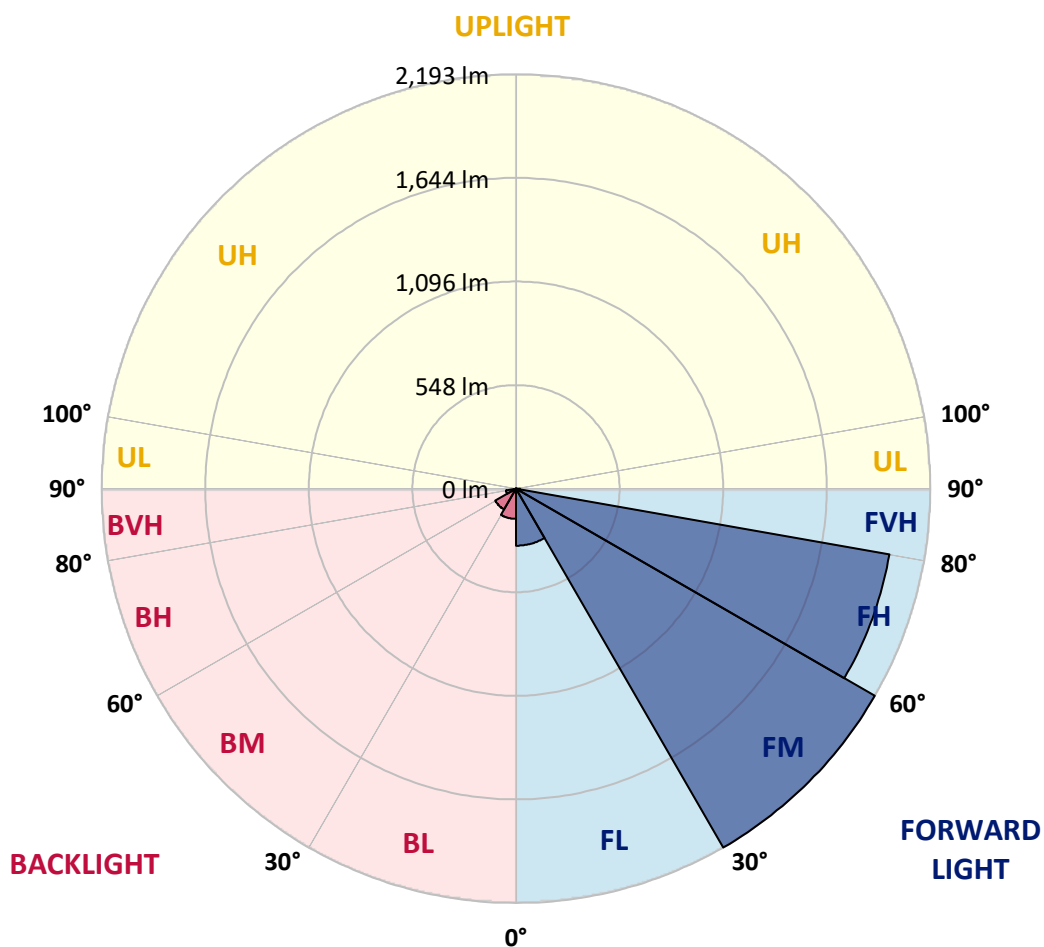


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.0	6.2			
FM (30°-60°)	2192.7	45.1			
FH (60°-80°)	2006.9	41.3			G2/5000
FVH (80°-90°)	21.2	0.4			G1/100
BL (0°-30°)	160.2	3.3	B1/500		
BM (30°-60°)	126.8	2.6	B0/220		
BH (60°-80°)	54.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	716.7	710.1	716.7	726.3	731.4	735.8	751.2	764.5	778.4	788.0	785.1
5°	664.5	677.0	678.5	681.4	689.5	716.0	724.8	747.6	782.1	785.1	798.3
7.5°	623.3	619.7	629.2	648.3	668.9	684.4	710.1	749.8	785.8	798.3	824.0
10°	563.8	571.2	581.4	600.6	625.5	663.8	709.3	753.5	804.9	809.3	857.1
12.5°	531.5	524.1	540.3	560.1	602.8	638.0	693.9	746.8	816.7	840.9	896.1
15°	505.0	508.7	524.1	537.3	572.6	617.5	682.9	763.0	836.5	853.4	937.2
17.5°	494.0	491.8	503.5	516.8	560.1	610.8	678.5	763.7	854.2	876.2	965.2
20°	499.1	503.5	499.9	512.3	539.5	591.0	685.1	777.7	867.4	897.5	995.3
22.5°	580.0	574.1	544.7	521.2	522.6	582.9	679.9	786.5	879.1	903.4	1015.9
25°	790.9	759.3	686.6	596.1	536.6	560.9	674.1	783.6	876.9	907.1	1028.4
27.5°	1003.4	976.2	904.9	764.5	593.2	552.0	653.5	785.8	865.9	893.8	1007.8
30°	1227.6	1242.3	1136.4	969.6	741.7	600.6	640.2	774.0	858.6	882.1	1012.2
32.5°	1457.7	1451.8	1387.8	1207.0	954.1	707.9	661.6	785.8	868.1	890.9	1037.9
35°	1637.7	1617.2	1552.5	1389.3	1129.8	869.6	735.1	841.7	910.0	937.2	1074.7
37.5°	1726.7	1735.5	1698.0	1556.2	1322.4	1019.5	827.0	841.7	923.3	954.9	1134.2
40°	1795.8	1822.2	1808.3	1762.7	1513.5	1188.6	928.4	893.8	990.1	1049.7	1245.9
42.5°	1878.8	1866.4	1948.7	1906.8	1763.4	1401.8	1106.3	1018.1	1148.2	1205.5	1413.5
45°	1923.0	1970.7	2033.2	2086.9	1995.0	1667.9	1338.6	1237.9	1390.0	1462.8	1662.7
47.5°	2036.2	2055.3	2156.7	2224.3	2183.2	1972.2	1691.4	1559.1	1694.3	1809.0	1947.9
50°	2102.3	2076.6	2218.5	2321.4	2344.9	2224.3	2007.5	1904.6	2056.0	2202.3	2214.8
52.5°	2044.2	2117.7	2259.6	2444.1	2509.5	2449.3	2378.7	2333.9	2440.4	2575.7	2515.4
55°	1840.6	1890.6	2236.1	2578.6	2789.6	2761.7	2827.1	2797.7	2905.0	3048.4	2866.8
57.5°	1676.7	1739.2	2042.8	2648.5	3050.6	3132.9	3215.2	3196.8	3326.2	3491.6	3164.5
60°	1574.5	1610.5	1903.1	2630.8	3204.9	3516.6	3702.6	3573.2	3784.2	3910.6	3397.5
62.5°	1397.4	1420.2	1699.5	2397.1	3251.2	3787.8	4103.2	3927.5	4110.5	4264.9	3565.1
65°	1120.3	1182.0	1412.8	2047.2	2945.4	3837.8	4353.1	4146.6	4323.7	4425.1	3615.8
66°	1019.5	1064.4	1276.1	1861.9	2771.2	3754.8	4311.2	4192.1	4354.6	4447.2	3537.9
67.5°	846.1	885.0	1053.4	1598.1	2414.7	3571.7	4340.6	4161.3	4378.1	4321.5	3433.5
70°	560.1	585.1	720.4	1080.6	1681.8	2921.9	4026.0	3920.1	3848.8	3636.4	2684.5
72.5°	261.7	297.7	449.9	655.0	986.5	2044.2	3282.8	3141.0	2699.2	2359.6	1693.6
75°	118.3	134.5	247.0	375.6	442.5	1059.2	2117.7	1912.7	1343.7	1115.8	741.7
77.5°	64.0	72.8	120.6	178.6	161.0	371.2	1048.2	871.8	423.4	310.2	215.4
80°	49.2	58.1	100.7	102.2	59.5	96.3	389.6	269.8	105.9	80.1	51.5
82.5°	25.7	36.8	79.4	66.2	30.1	39.0	120.6	75.0	33.1	26.5	22.1
85°	10.3	16.2	44.8	44.1	17.6	13.2	33.8	22.8	13.2	11.0	10.3
87.5°	0.7	0.7	24.3	16.9	11.0	3.7	5.1	5.1	6.6	5.9	7.4
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°	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2	779.2
2.5°	798.3	807.1	808.6	832.8	838.0	832.8	846.1	843.9	849.7	845.3	837.2
5°	816.7	829.2	853.4	871.8	871.8	857.1	845.3	829.9	807.1	801.2	796.8
7.5°	848.3	888.0	910.0	898.3	874.7	819.6	743.2	687.3	640.2	622.6	614.5
10°	904.1	926.2	951.9	904.1	806.4	689.5	560.9	476.3	410.2	395.5	384.4
12.5°	940.2	975.4	990.1	871.8	679.9	505.7	366.1	270.5	224.2	188.9	183.0
15°	987.2	1027.6	997.5	784.3	535.9	331.5	189.6	118.3	96.3	90.4	90.4
17.5°	1019.5	1063.7	967.4	675.5	380.0	176.4	94.1	81.6	80.1	80.9	79.4
20°	1076.1	1102.6	921.8	549.1	227.1	90.4	75.7	72.8	71.3	73.5	72.0
22.5°	1097.5	1121.7	847.5	397.7	102.2	60.3	56.6	54.4	55.9	55.1	54.4
25°	1096.0	1108.5	725.5	227.9	30.1	23.5	21.3	21.3	19.8	20.6	19.8
27.5°	1107.0	1076.1	588.8	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1112.9	1024.0	419.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1115.8	996.8	269.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1138.6	942.4	115.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1154.1	872.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1218.0	850.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1301.1	809.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1416.5	748.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1569.4	712.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1683.3	655.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1828.1	621.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2000.1	623.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2156.7	613.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2236.8	524.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2219.9	424.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2161.1	333.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	2120.7	294.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1997.9	236.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1590.0	161.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1011.5	99.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	466.0	45.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	146.3	27.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.2	17.6	5.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.8	12.5	5.1	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	5.1	2.2	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	2.9	1.5	1.5	0.7	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)