

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: P482949

Luminaire Tested: **IFLD-S-SA2B-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

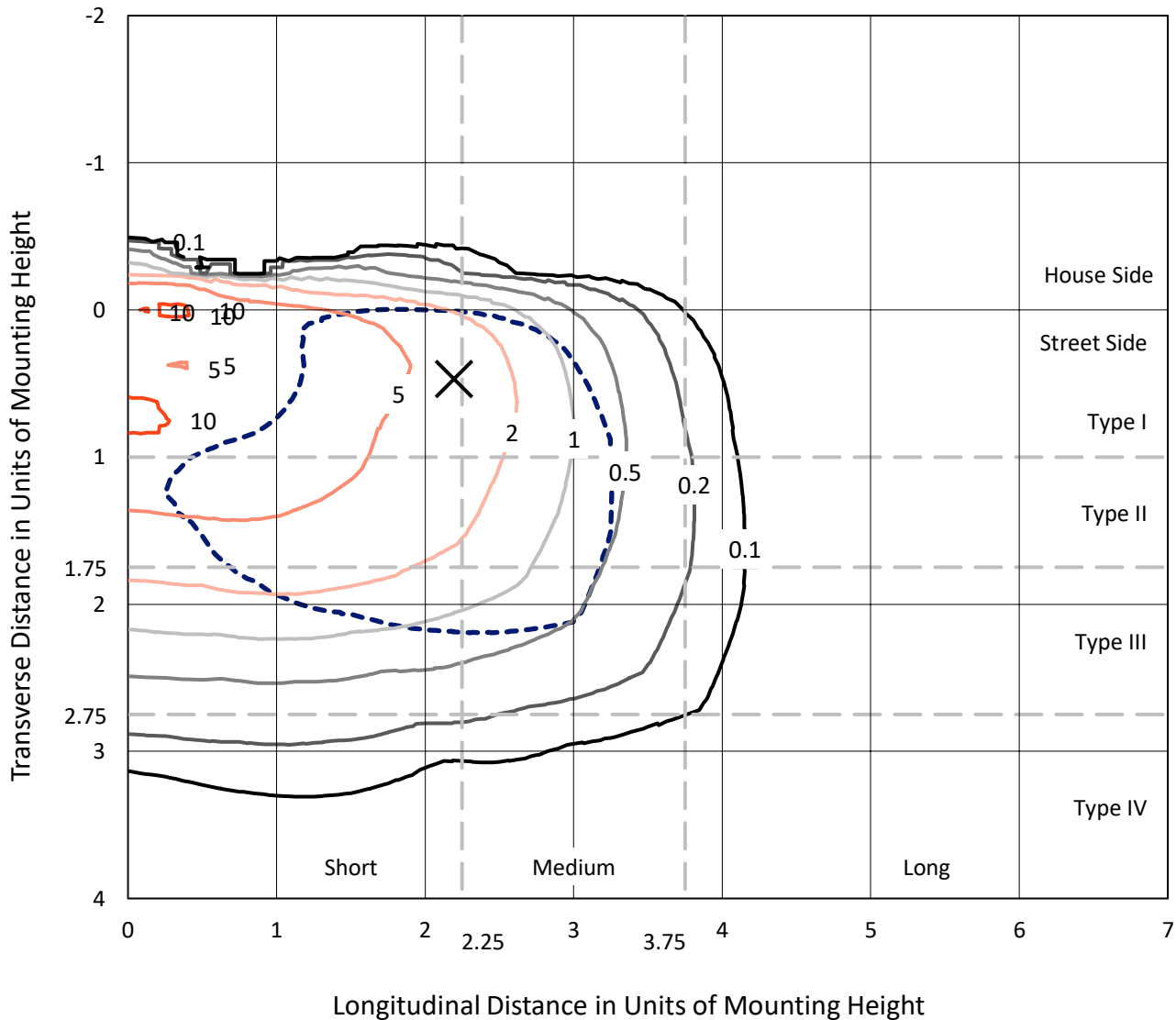
Lumens per Lamp: N/A
Luminaire Lumens: 6016.4 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

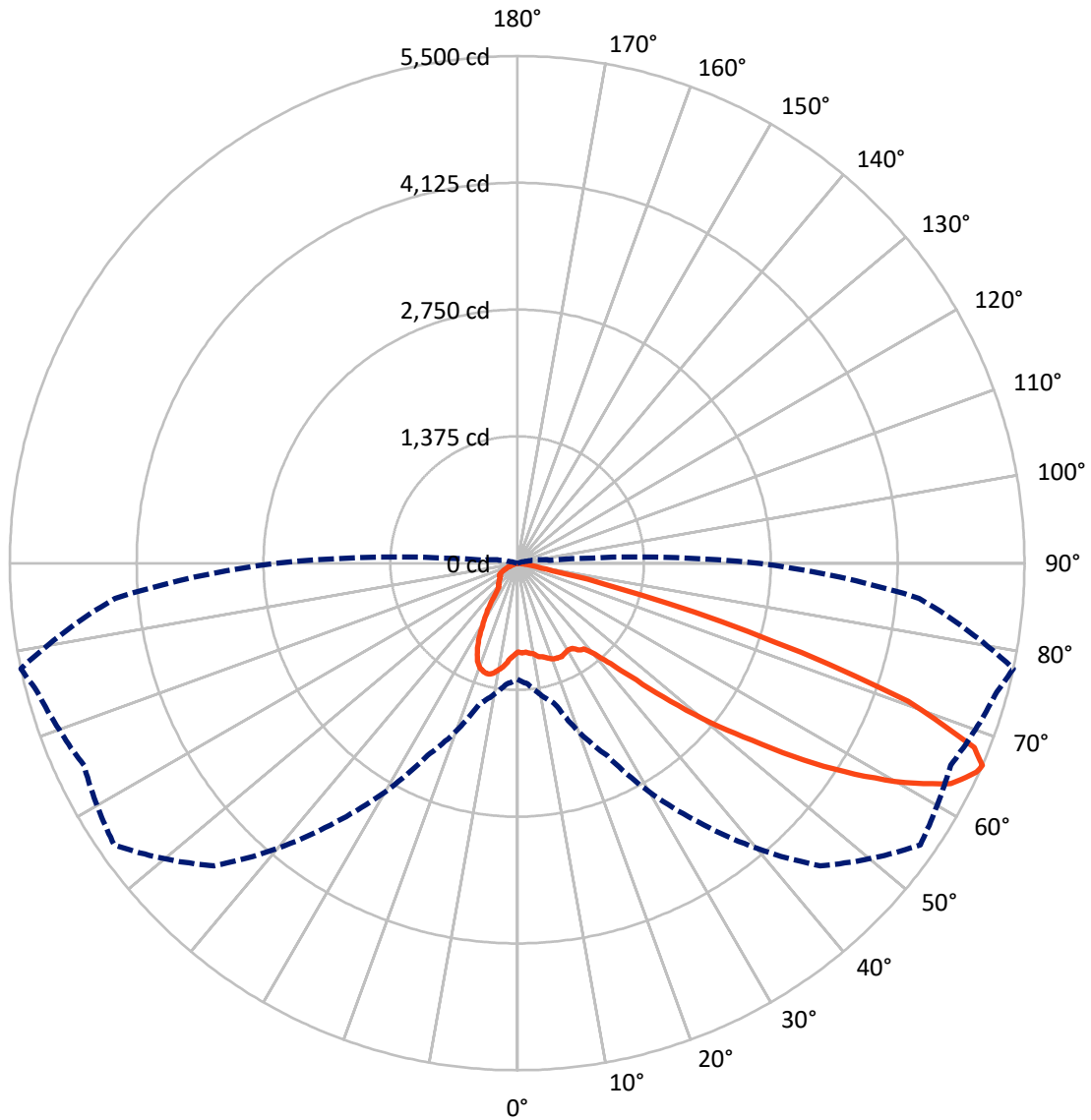
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 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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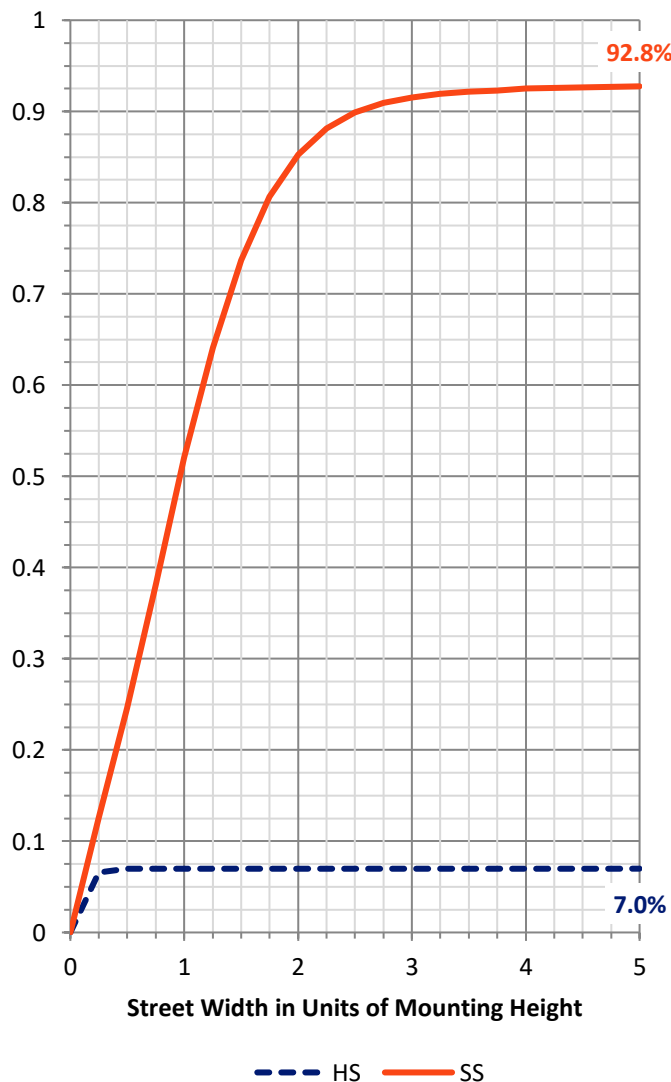
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	423.0	0.0	423.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	5593.4	0.0	5593.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	6016.4	0.0	6016.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.5
10°-20°	199.0	3.3
20°-30°	284.4	4.7
30°-40°	486.9	8.1
40°-50°	878.8	14.6
50°-60°	1502.8	25.0
60°-70°	1849.7	30.7
70°-80°	699.3	11.6
80°-90°	27.3	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°	6016.4	100.0
0°-180°	6016.4	100.0

Coefficient of Utilization

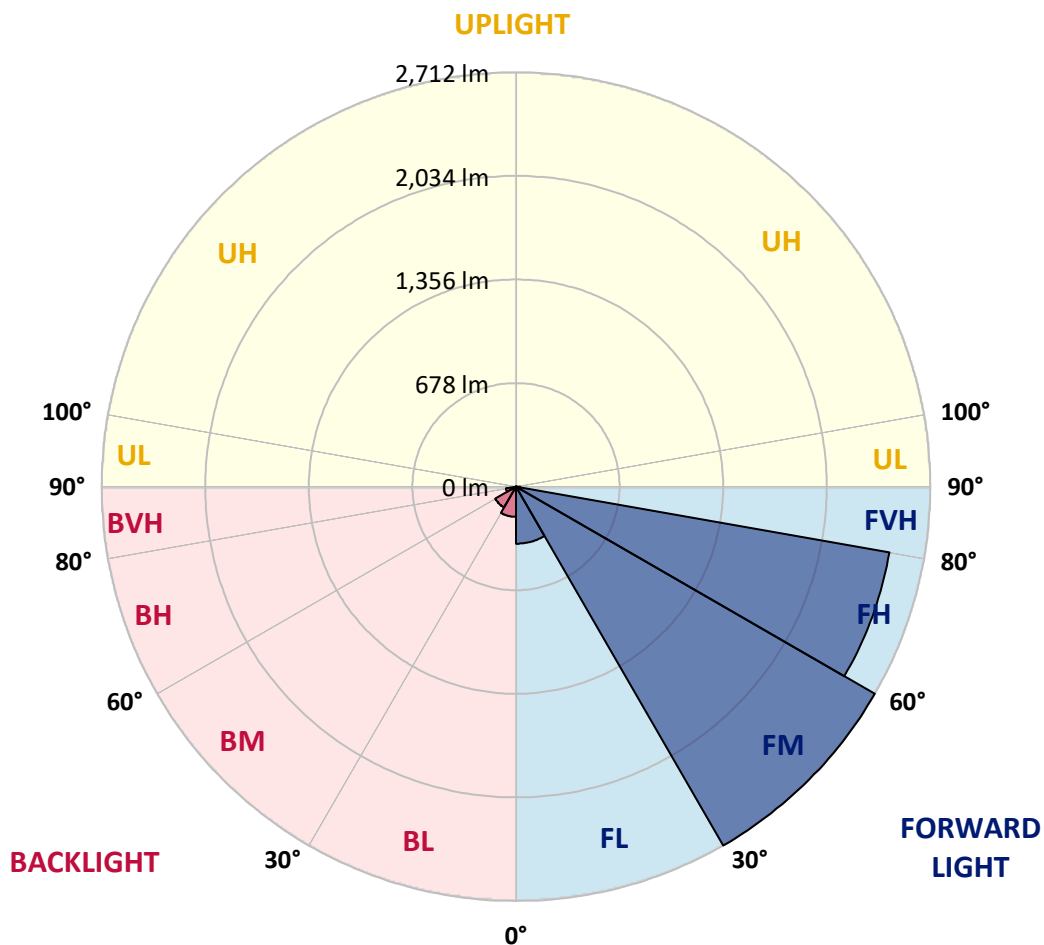


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.5	6.2			
FM (30°-60°)	2711.7	45.1			
FH (60°-80°)	2482.0	41.3			G2/5000
FVH (80°-90°)	26.2	0.4			G1/100
BL (0°-30°)	198.1	3.3	B1/500		
BM (30°-60°)	156.8	2.6	B0/220		
BH (60°-80°)	67.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	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°	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6
2.5°	886.4	878.2	886.4	898.2	904.5	910.0	929.1	945.5	962.7	974.5	970.9
5°	821.8	837.3	839.1	842.7	852.7	885.5	896.4	924.5	967.3	970.9	987.3
7.5°	770.9	766.4	778.2	801.8	827.3	846.4	878.2	927.3	971.8	987.3	1019.1
10°	697.3	706.4	719.1	742.7	773.6	820.9	877.3	931.8	995.5	1000.9	1060.0
12.5°	657.3	648.2	668.2	692.7	745.5	789.1	858.2	923.6	1010.0	1040.0	1108.2
15°	624.5	629.1	648.2	664.5	708.2	763.6	844.5	943.6	1034.5	1055.5	1159.1
17.5°	610.9	608.2	622.7	639.1	692.7	755.5	839.1	944.5	1056.4	1083.6	1193.6
20°	617.3	622.7	618.2	633.6	667.3	730.9	847.3	961.8	1072.7	1110.0	1230.9
22.5°	717.3	710.0	673.6	644.5	646.4	720.9	840.9	972.7	1087.3	1117.3	1256.4
25°	978.2	939.1	849.1	737.3	663.6	693.6	833.6	969.1	1084.5	1121.8	1271.8
27.5°	1240.9	1207.3	1119.1	945.5	733.6	682.7	808.2	971.8	1070.9	1105.5	1246.4
30°	1518.2	1536.4	1405.5	1199.1	917.3	742.7	791.8	957.3	1061.8	1090.9	1251.8
32.5°	1802.7	1795.4	1716.4	1492.7	1180.0	875.5	818.2	971.8	1073.6	1101.8	1283.6
35°	2025.4	2000.0	1920.0	1718.2	1397.3	1075.5	909.1	1040.9	1125.5	1159.1	1329.1
37.5°	2135.4	2146.4	2100.0	1924.5	1635.4	1260.9	1022.7	1040.9	1141.8	1180.9	1402.7
40°	2220.9	2253.6	2236.4	2180.0	1871.8	1470.0	1148.2	1105.5	1224.5	1298.2	1540.9
42.5°	2323.6	2308.2	2410.0	2358.2	2180.9	1733.6	1368.2	1259.1	1420.0	1490.9	1748.2
45°	2378.2	2437.3	2514.5	2580.9	2467.3	2062.7	1655.4	1530.9	1719.1	1809.1	2056.4
47.5°	2518.2	2541.8	2667.3	2750.9	2700.0	2439.1	2091.8	1928.2	2095.4	2237.3	2409.1
50°	2600.0	2568.2	2743.6	2870.9	2900.0	2750.9	2482.7	2355.4	2542.7	2723.6	2739.1
52.5°	2528.2	2619.1	2794.5	3022.7	3103.6	3029.1	2941.8	2886.4	3018.2	3185.4	3110.9
55°	2276.4	2338.2	2765.4	3189.1	3450.0	3415.4	3496.4	3460.0	3592.7	3770.0	3545.4
57.5°	2073.6	2150.9	2526.4	3275.4	3772.7	3874.5	3976.4	3953.6	4113.6	4318.2	3913.6
60°	1947.3	1991.8	2353.6	3253.6	3963.6	4349.1	4579.1	4419.1	4680.0	4836.3	4201.8
62.5°	1728.2	1756.4	2101.8	2964.5	4020.9	4684.5	5074.5	4857.3	5083.6	5274.5	4409.1
65°	1385.5	1461.8	1747.3	2531.8	3642.7	4746.3	5383.6	5128.2	5347.3	5472.7	4471.8
66°	1260.9	1316.4	1578.2	2302.7	3427.3	4643.6	5331.8	5184.5	5385.4	5500.0	4375.4
67.5°	1046.4	1094.5	1302.7	1976.4	2986.4	4417.3	5368.2	5146.3	5414.5	5344.5	4246.4
70°	692.7	723.6	890.9	1336.4	2080.0	3613.6	4979.1	4848.2	4760.0	4497.3	3320.0
72.5°	323.6	368.2	556.4	810.0	1220.0	2528.2	4060.0	3884.5	3338.2	2918.2	2094.5
75°	146.4	166.4	305.5	464.5	547.3	1310.0	2619.1	2365.4	1661.8	1380.0	917.3
77.5°	79.1	90.0	149.1	220.9	199.1	459.1	1296.4	1078.2	523.6	383.6	266.4
80°	60.9	71.8	124.5	126.4	73.6	119.1	481.8	333.6	130.9	99.1	63.6
82.5°	31.8	45.5	98.2	81.8	37.3	48.2	149.1	92.7	40.9	32.7	27.3
85°	12.7	20.0	55.5	54.5	21.8	16.4	41.8	28.2	16.4	13.6	12.7
87.5°	0.9	0.9	30.0	20.9	13.6	4.5	6.4	6.4	8.2	7.3	9.1
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°	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6
2.5°	987.3	998.2	1000.0	1030.0	1036.4	1030.0	1046.4	1043.6	1050.9	1045.5	1035.5
5°	1010.0	1025.5	1055.5	1078.2	1078.2	1060.0	1045.5	1026.4	998.2	990.9	985.5
7.5°	1049.1	1098.2	1125.5	1110.9	1081.8	1013.6	919.1	850.0	791.8	770.0	760.0
10°	1118.2	1145.5	1177.3	1118.2	997.3	852.7	693.6	589.1	507.3	489.1	475.5
12.5°	1162.7	1206.4	1224.5	1078.2	840.9	625.5	452.7	334.5	277.3	233.6	226.4
15°	1220.9	1270.9	1233.6	970.0	662.7	410.0	234.5	146.4	119.1	111.8	111.8
17.5°	1260.9	1315.5	1196.4	835.5	470.0	218.2	116.4	100.9	99.1	100.0	98.2
20°	1330.9	1363.6	1140.0	679.1	280.9	111.8	93.6	90.0	88.2	90.9	89.1
22.5°	1357.3	1387.3	1048.2	491.8	126.4	74.5	70.0	67.3	69.1	68.2	67.3
25°	1355.5	1370.9	897.3	281.8	37.3	29.1	26.4	26.4	24.5	25.5	24.5
27.5°	1369.1	1330.9	728.2	83.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1376.4	1266.4	518.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1380.0	1232.7	333.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1408.2	1165.5	142.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1427.3	1079.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1506.4	1051.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1609.1	1000.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1751.8	925.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1940.9	880.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2081.8	810.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2260.9	769.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2473.6	770.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2667.3	758.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2766.4	648.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2745.4	524.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2672.7	411.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	2622.7	364.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2470.9	291.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1966.4	200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1250.9	122.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	576.4	56.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	180.9	34.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.3	21.8	7.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.5	15.5	6.4	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.4	2.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	3.6	1.8	1.8	0.9	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)