

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: P481700

Luminaire Tested: **IFLD-S-SA2A-750-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481700
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

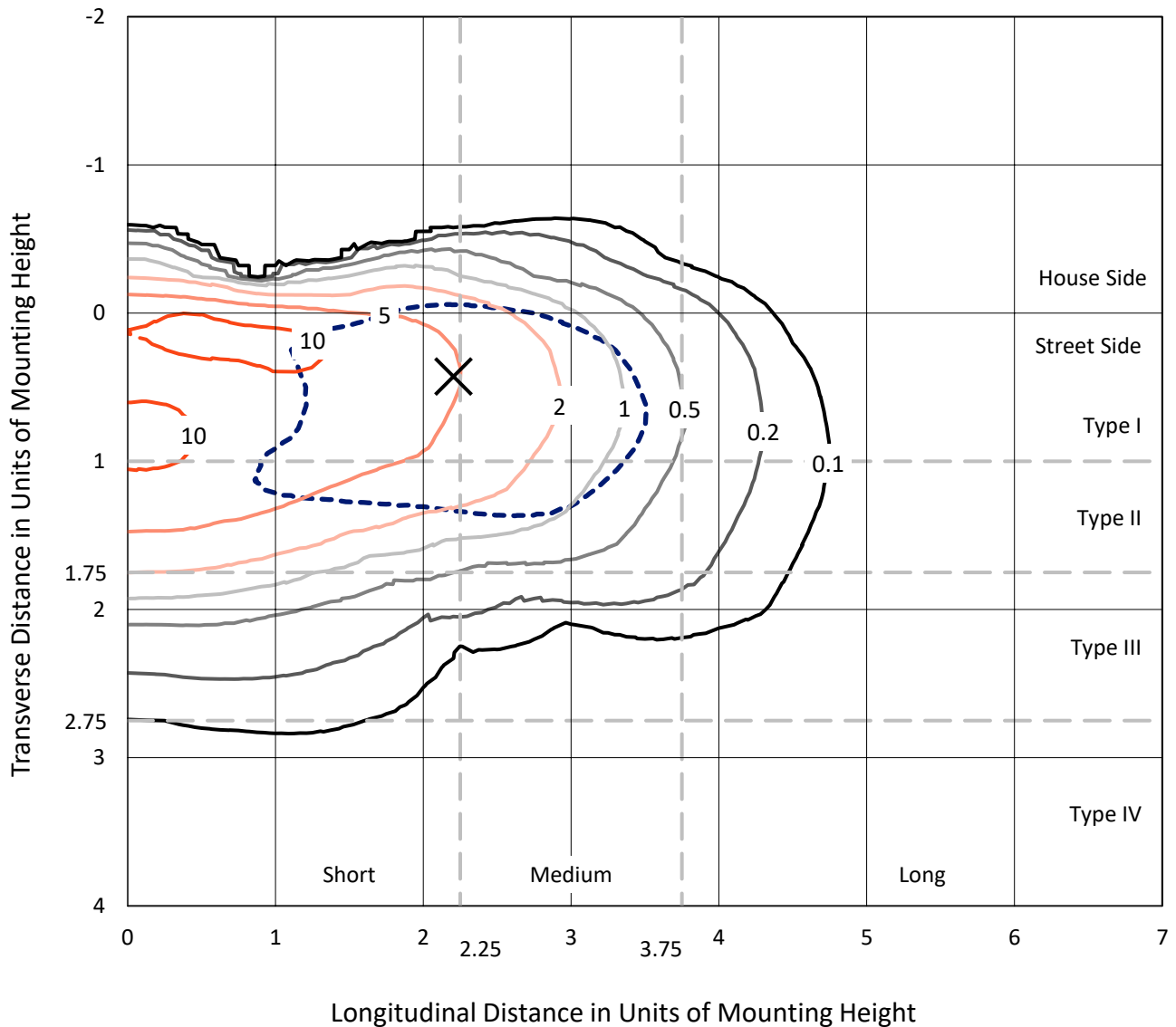
Lumens per Lamp: N/A
Luminaire Lumens: 6800.7 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

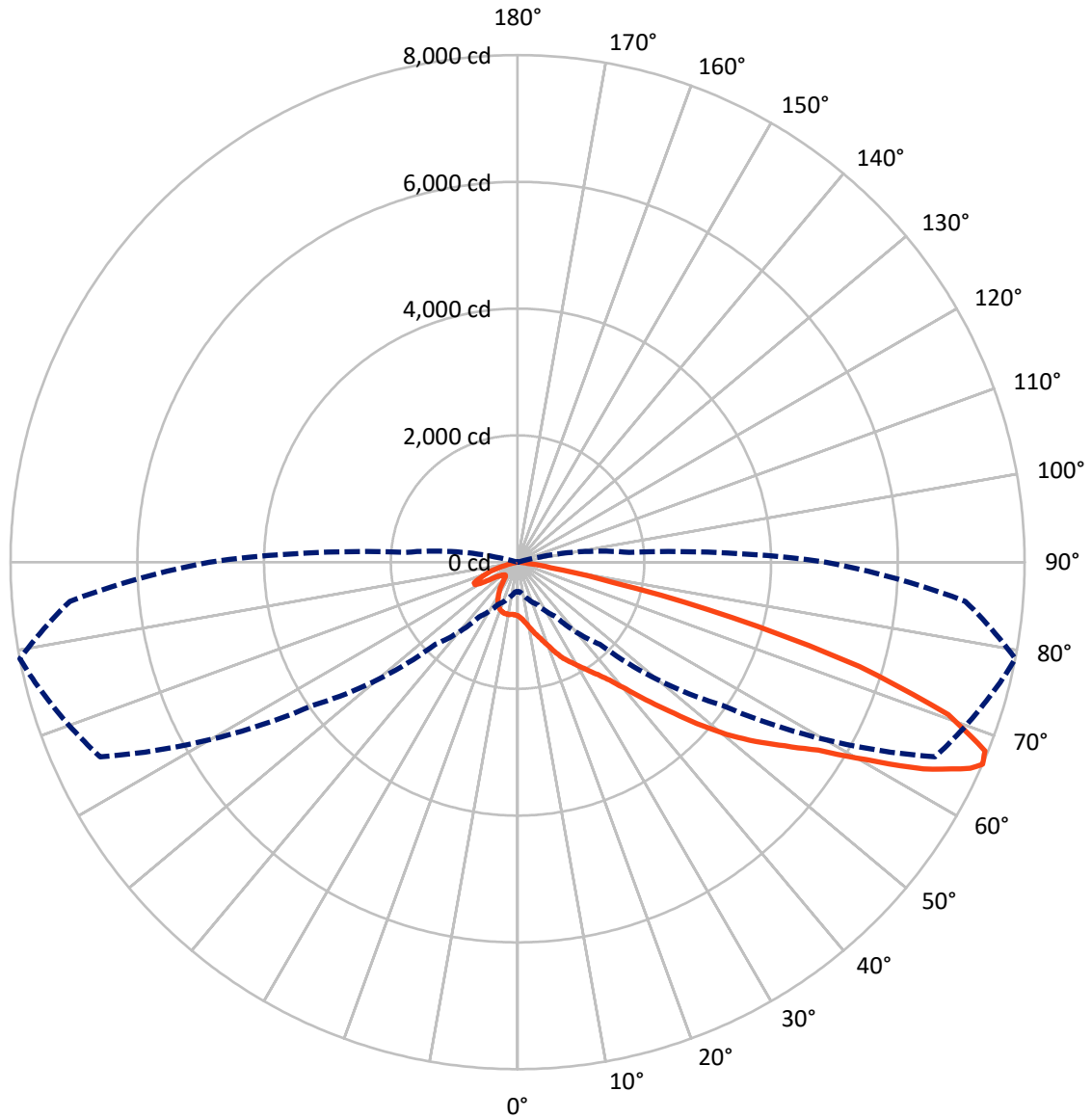
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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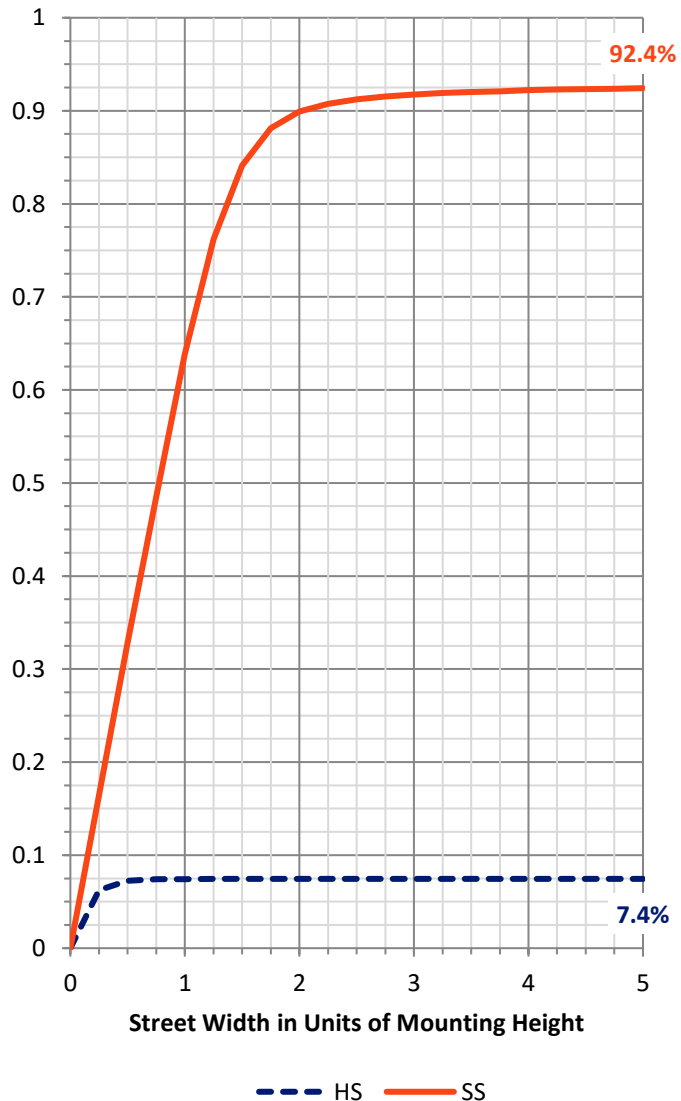
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	510.6	0.0	510.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6290.1	0.0	6290.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	6800.7	0.0	6800.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.2
10°-20°	220.2	3.2
20°-30°	365.8	5.4
30°-40°	628.4	9.2
40°-50°	1138.4	16.7
50°-60°	1799.4	26.5
60°-70°	1831.1	26.9
70°-80°	698.3	10.3
80°-90°	39.1	0.6
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°	6800.7	100.0
0°-180°	6800.7	100.0

Coefficient of Utilization



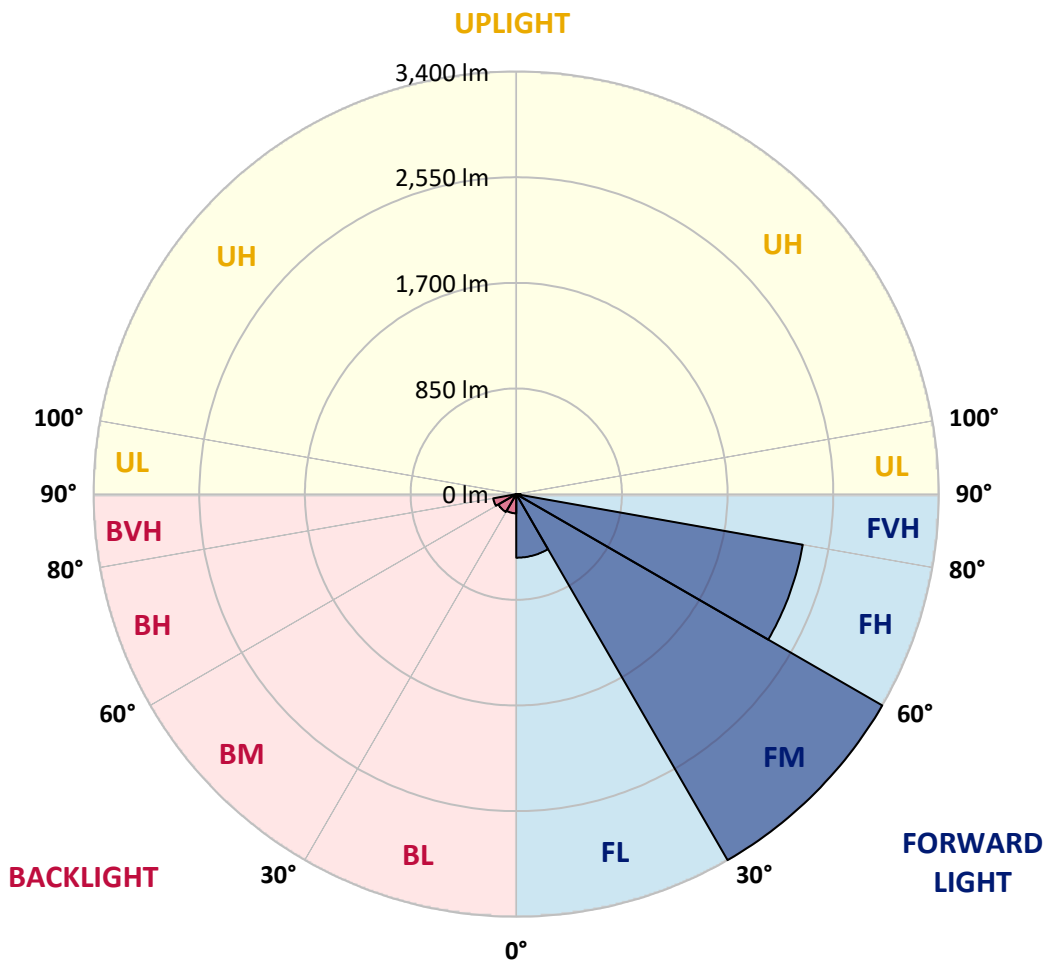
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.6	7.5			
FM (30°-60°)	3400.2	50.0			
FH (60°-80°)	2341.1	34.4			G2/5000
FVH (80°-90°)	37.1	0.5			G1/100
BL (0°-30°)	154.4	2.3	B1/500		
BM (30°-60°)	166.0	2.4	B0/220		
BH (60°-80°)	188.2	2.8	B1/500		G1/500
BVH (80°-90°)	2.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1
2.5°	958.3	957.2	953.0	945.7	936.3	933.1	919.5	900.6	890.1	878.6	873.4
5°	1024.3	1019.1	1031.7	1026.4	1028.5	1003.4	986.6	973.0	933.1	917.4	892.2
7.5°	1039.0	1044.2	1043.2	1051.6	1060.0	1069.4	1057.9	1038.0	998.1	975.0	947.8
10°	1039.0	1036.9	1045.3	1056.8	1080.9	1101.9	1133.4	1107.2	1076.7	1049.5	1000.2
12.5°	1020.1	1017.0	1025.4	1049.5	1092.5	1135.5	1170.1	1195.2	1152.2	1130.2	1066.3
15°	962.5	959.3	993.9	1036.9	1093.5	1163.8	1236.1	1277.0	1247.6	1213.0	1141.8
17.5°	891.2	895.4	932.1	1003.4	1093.5	1177.4	1269.7	1358.8	1354.6	1310.6	1236.1
20°	867.1	870.2	906.9	958.3	1061.0	1186.8	1322.1	1447.9	1473.1	1420.6	1323.1
22.5°	913.2	910.0	913.2	944.6	1039.0	1178.4	1356.7	1549.6	1594.7	1553.8	1437.4
25°	1070.5	1068.4	1042.2	993.9	1026.4	1159.6	1374.5	1616.7	1720.5	1682.7	1529.7
27.5°	1301.1	1292.7	1251.8	1151.2	1085.1	1171.1	1403.9	1681.7	1830.6	1787.6	1612.5
30°	1548.5	1528.6	1475.2	1349.3	1237.2	1214.1	1420.6	1729.9	1953.2	1898.7	1684.8
32.5°	1719.4	1745.7	1728.9	1601.0	1429.0	1313.7	1447.9	1790.7	2066.5	2030.8	1808.6
35°	1983.7	2014.1	1943.8	1830.6	1657.6	1472.0	1505.6	1840.0	2240.5	2180.8	1923.9
37.5°	2317.1	2340.1	2289.8	2074.9	1892.4	1667.0	1624.0	1942.8	2390.4	2362.1	2071.7
40°	2484.8	2595.9	2524.6	2330.7	2134.6	1939.6	1820.1	2063.3	2651.5	2628.4	2276.2
42.5°	2716.5	2772.1	2735.4	2591.7	2387.3	2231.1	2062.3	2298.2	2968.1	2968.1	2553.0
45°	2961.8	2963.9	2961.8	2844.4	2663.0	2582.3	2389.4	2592.8	3308.9	3346.6	2884.3
47.5°	3163.1	3226.1	3220.8	3150.6	3010.1	2979.7	2716.5	2928.3	3736.6	3802.7	3207.2
50°	3266.9	3337.2	3358.2	3394.9	3388.6	3452.5	3074.0	3317.3	4105.7	4268.2	3622.4
52.5°	3238.6	3243.9	3372.8	3517.5	3748.2	3927.5	3504.9	3758.7	4537.7	4698.1	3943.2
55°	3006.9	2987.0	3252.3	3417.9	3895.0	4217.9	4101.5	4309.1	4874.2	5118.5	4274.5
57.5°	2498.4	2503.7	2749.0	3085.6	3785.9	4333.2	4739.0	5028.3	5346.0	5592.4	4740.0
60°	1724.7	1718.4	1993.1	2382.1	3145.3	4118.3	5105.9	5960.4	5977.2	6326.3	5575.6
62.5°	969.8	971.9	1180.5	1512.9	2200.7	3365.5	5088.1	6950.1	6878.8	7185.0	6525.5
65°	549.4	563.0	706.6	896.4	1317.9	2259.4	4376.2	7344.3	7573.9	7846.5	7102.1
66°	464.5	473.9	596.6	740.2	1051.6	1832.7	3939.0	7267.8	7792.0	7999.6	7090.6
67.5°	359.6	372.2	474.9	587.1	771.7	1268.6	3170.5	6887.2	7831.9	7953.5	6890.4
70°	246.4	254.8	333.4	445.6	527.4	649.0	1895.6	5694.1	7106.3	7209.1	5988.7
72.5°	173.0	177.2	233.8	337.6	405.7	371.1	940.5	4051.2	5438.3	5638.5	4658.2
75°	124.8	129.0	160.4	242.2	316.6	243.2	430.9	2587.6	3335.1	3492.4	2805.6
77.5°	90.2	95.4	109.0	156.2	229.6	170.9	211.8	1351.4	1572.7	1545.4	1206.8
80°	54.5	59.8	80.7	100.7	167.8	120.6	116.4	564.1	557.8	529.5	379.5
82.5°	25.2	29.4	43.0	68.1	117.4	83.9	55.6	201.3	176.1	161.5	106.9
85°	7.3	9.4	25.2	51.4	59.8	40.9	33.6	69.2	72.3	61.9	35.6
87.5°	0.0	1.0	11.5	12.6	17.8	13.6	12.6	17.8	33.6	27.3	11.5
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°	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1	846.1
2.5°	854.5	847.1	829.3	802.1	777.9	765.4	747.5	731.8	723.4	722.4	721.3
5°	875.4	855.5	812.5	763.3	726.6	686.7	659.5	639.5	620.7	602.9	613.3
7.5°	903.8	872.3	802.1	738.1	658.4	607.0	558.8	530.5	513.7	498.0	495.9
10°	947.8	907.9	794.7	679.4	588.2	512.7	463.4	422.5	399.5	372.2	382.7
12.5°	1007.6	936.3	767.5	625.9	508.5	428.8	358.6	292.5	255.8	227.5	228.6
15°	1067.3	974.0	742.3	560.9	436.2	331.3	228.6	183.5	173.0	166.7	168.8
17.5°	1126.0	1004.4	703.5	494.9	353.3	210.7	166.7	157.3	152.0	145.7	145.7
20°	1197.3	1024.3	655.3	434.1	243.2	156.2	142.6	136.3	127.9	119.5	120.6
22.5°	1266.5	1041.1	599.7	356.5	163.6	135.2	119.5	111.1	103.8	95.4	95.4
25°	1335.7	1046.3	527.4	255.8	132.1	108.0	93.3	81.8	74.4	67.1	68.1
27.5°	1382.9	1013.8	459.2	163.6	105.9	81.8	65.0	55.6	49.3	41.9	41.9
30°	1410.2	954.1	385.8	115.3	79.7	55.6	38.8	29.4	23.1	17.8	16.8
32.5°	1437.4	905.9	303.0	88.1	52.4	29.4	14.7	5.2	0.0	0.0	0.0
35°	1491.9	851.3	203.4	49.3	17.8	1.0	0.0	0.0	0.0	0.0	0.0
37.5°	1526.5	775.8	93.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1613.6	738.1	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1755.1	711.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1910.3	701.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2116.8	729.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2334.9	806.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2573.9	878.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2782.6	965.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3166.3	1171.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3855.1	1574.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4631.0	1874.6	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4915.1	1867.3	19.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4864.8	1764.5	19.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4603.7	1567.4	17.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3953.7	1294.8	17.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3014.3	1008.6	16.8	4.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1819.0	536.8	13.6	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	724.5	188.7	10.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	196.1	56.6	6.3	4.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.4	21.0	5.2	4.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	8.4	4.2	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.1	3.1	2.1	2.1	1.0	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)