

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: P481544

Luminaire Tested: **IFLD-S-SA2A-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481544
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

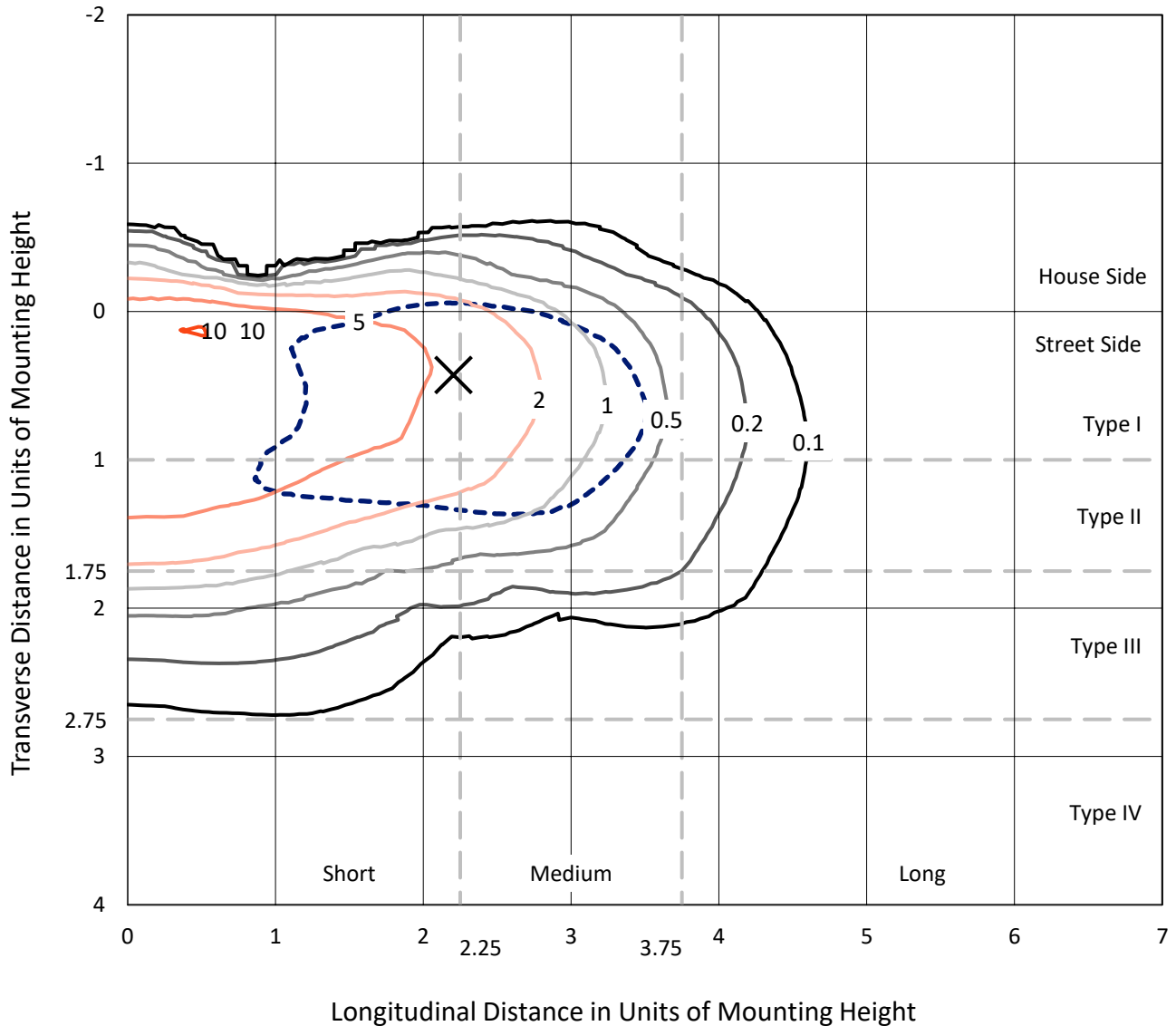
Lumens per Lamp: N/A
Luminaire Lumens: 5560.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (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

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Iso-Footcandle Lines of Horizontal Illumination

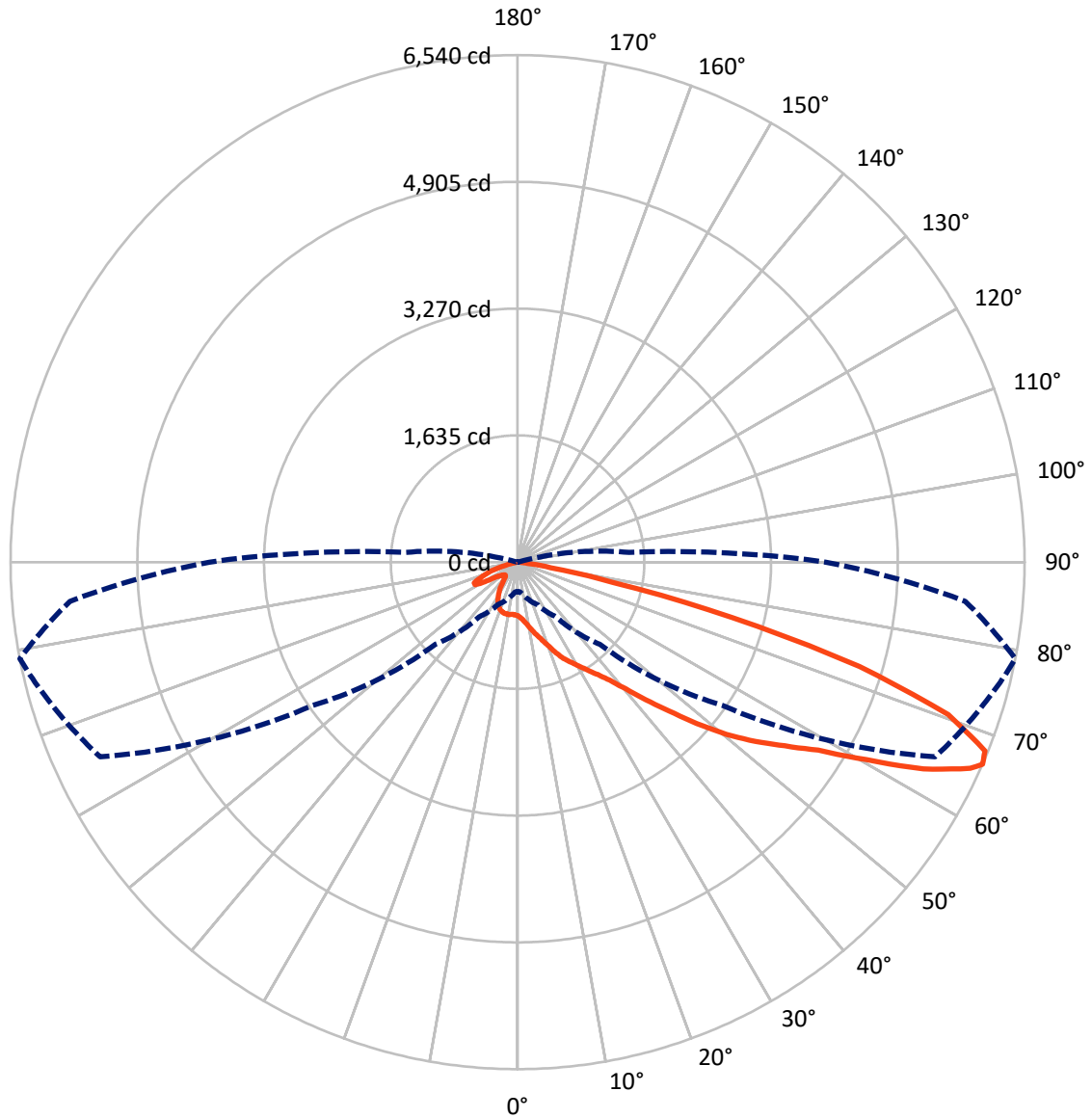
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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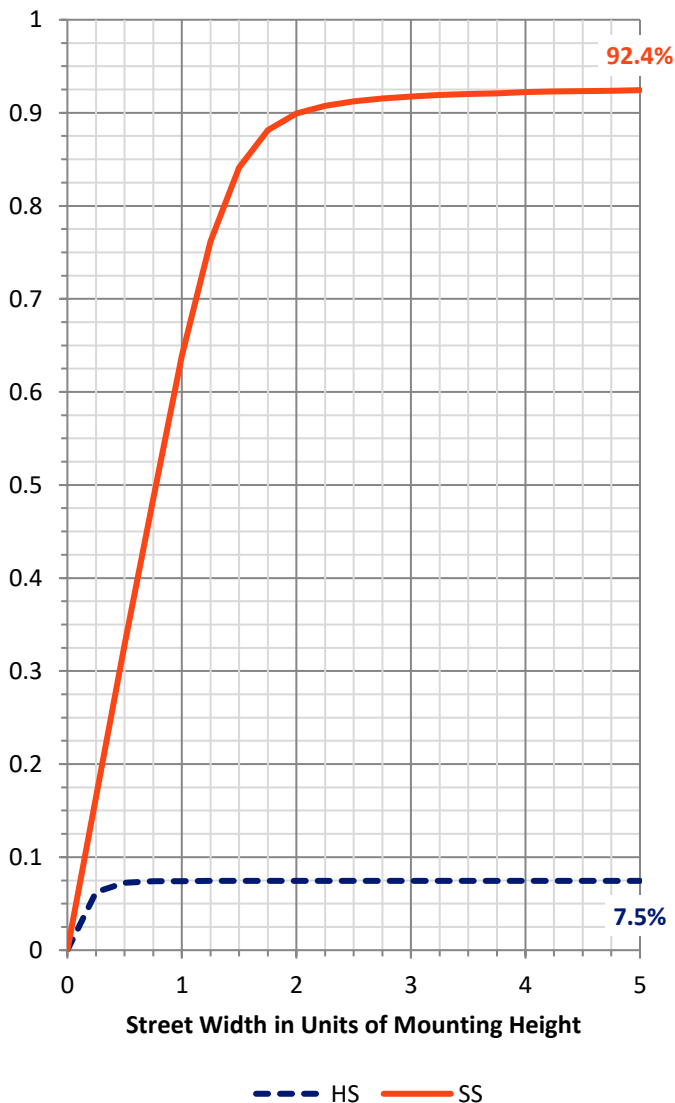
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	417.5	0.0	417.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	5142.6	0.0	5142.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	5560.1	0.0	5560.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	1.2
10°-20°	180.0	3.2
20°-30°	299.1	5.4
30°-40°	513.7	9.2
40°-50°	930.7	16.7
50°-60°	1471.2	26.5
60°-70°	1497.0	26.9
70°-80°	570.9	10.3
80°-90°	32.0	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°	5560.1	100.0
0°-180°	5560.1	100.0



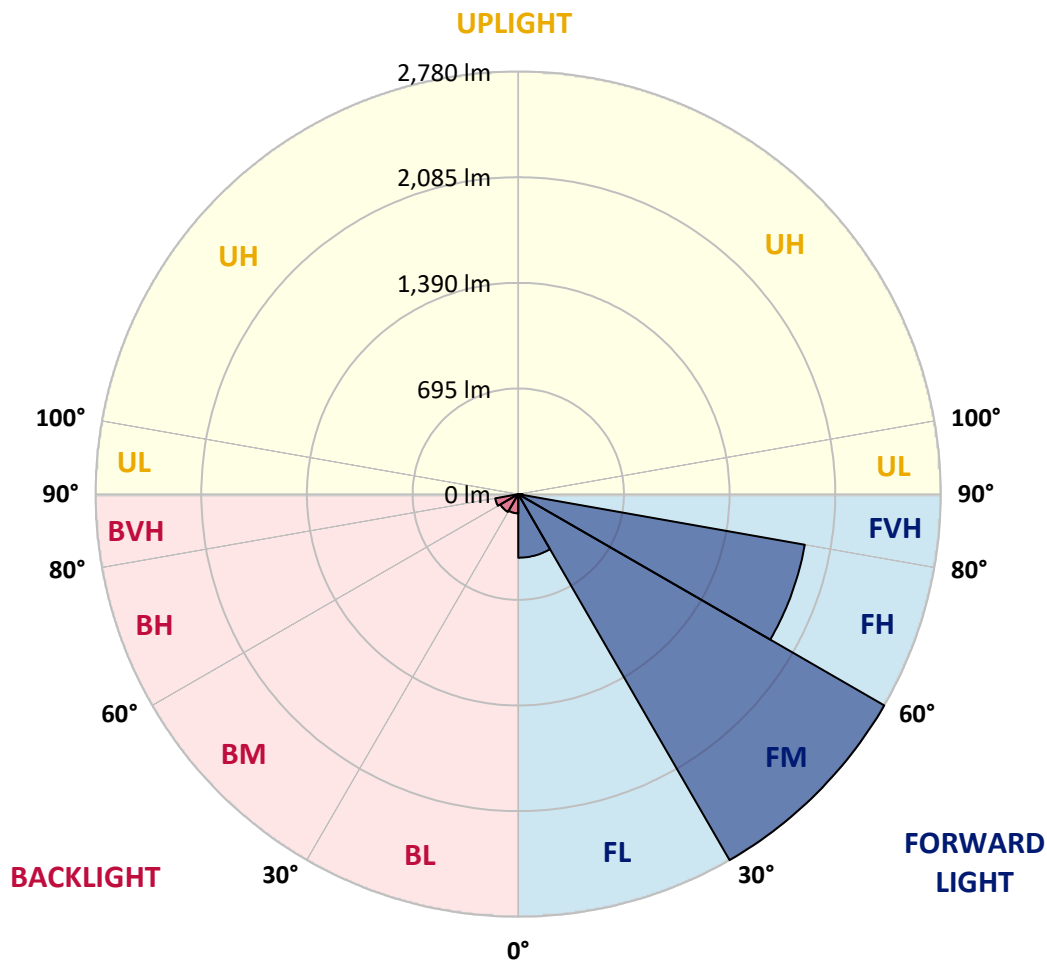
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.3	7.5			
FM (30°-60°)	2779.9	50.0			
FH (60°-80°)	1914.0	34.4			G2/5000
FVH (80°-90°)	30.4	0.5			G1/100
BL (0°-30°)	126.3	2.3	B1/500		
BM (30°-60°)	135.7	2.4	B0/220		
BH (60°-80°)	153.9	2.8	B1/500		G1/500
BVH (80°-90°)	1.6	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°	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7
2.5°	783.5	782.6	779.2	773.2	765.5	762.9	751.7	736.3	727.7	718.3	714.0
5°	837.5	833.2	843.5	839.2	840.9	820.3	806.6	795.5	762.9	750.0	729.5
7.5°	849.5	853.8	852.9	859.8	866.6	874.3	864.9	848.6	816.0	797.2	774.9
10°	849.5	847.8	854.6	864.0	883.8	900.9	926.6	905.2	880.3	858.0	817.8
12.5°	834.0	831.5	838.3	858.0	893.2	928.3	956.6	977.2	942.0	924.0	871.8
15°	786.9	784.3	812.6	847.8	894.0	951.5	1010.6	1044.0	1020.0	991.8	933.5
17.5°	728.6	732.0	762.0	820.3	894.0	962.6	1038.0	1110.9	1107.5	1071.5	1010.6
20°	708.9	711.5	741.5	783.5	867.5	970.3	1080.9	1183.8	1204.3	1161.5	1081.8
22.5°	746.6	744.0	746.6	772.3	849.5	963.5	1109.2	1266.9	1303.8	1270.3	1175.2
25°	875.2	873.5	852.0	812.6	839.2	948.0	1123.8	1321.8	1406.6	1375.8	1250.6
27.5°	1063.8	1056.9	1023.5	941.2	887.2	957.5	1147.8	1374.9	1496.6	1461.5	1318.3
30°	1266.1	1249.8	1206.1	1103.2	1011.5	992.6	1161.5	1414.3	1596.9	1552.4	1377.5
32.5°	1405.8	1427.2	1413.5	1308.9	1168.3	1074.0	1183.8	1464.1	1689.5	1660.4	1478.6
35°	1621.8	1646.6	1589.2	1496.6	1355.2	1203.5	1230.9	1504.4	1831.8	1782.9	1572.9
37.5°	1894.4	1913.2	1872.1	1696.4	1547.2	1362.9	1327.8	1588.4	1954.4	1931.2	1693.8
40°	2031.5	2122.4	2064.1	1905.5	1745.2	1585.8	1488.1	1686.9	2167.8	2149.0	1860.9
42.5°	2221.0	2266.4	2236.4	2119.0	1951.8	1824.1	1686.1	1878.9	2426.7	2426.7	2087.2
45°	2421.5	2423.3	2421.5	2325.5	2177.2	2111.2	1953.5	2119.8	2705.3	2736.1	2358.1
47.5°	2586.1	2637.5	2633.3	2575.8	2461.0	2436.1	2221.0	2394.1	3055.0	3109.0	2622.1
50°	2671.0	2728.4	2745.6	2775.6	2770.4	2822.7	2513.3	2712.1	3356.7	3489.6	2961.6
52.5°	2647.8	2652.1	2757.6	2875.8	3064.4	3211.0	2865.6	3073.0	3709.9	3841.0	3223.9
55°	2458.4	2442.1	2659.0	2794.4	3184.4	3448.4	3353.3	3523.0	3985.0	4184.8	3494.7
57.5°	2042.7	2046.9	2247.5	2522.7	3095.3	3542.7	3874.5	4111.0	4370.8	4572.2	3875.3
60°	1410.1	1404.9	1629.5	1947.5	2571.5	3367.0	4174.5	4873.1	4886.8	5172.2	4558.5
62.5°	792.9	794.6	965.2	1236.9	1799.2	2751.6	4159.9	5682.3	5624.0	5874.3	5335.1
65°	449.2	460.3	577.7	732.9	1077.5	1847.2	3577.9	6004.6	6192.3	6415.1	5806.5
66°	379.7	387.4	487.7	605.2	859.8	1498.4	3220.4	5942.0	6370.6	6540.3	5797.1
67.5°	294.0	304.3	388.3	480.0	630.9	1037.2	2592.1	5630.8	6403.1	6502.6	5633.4
70°	201.4	208.3	272.6	364.3	431.2	530.6	1549.8	4655.4	5810.0	5894.0	4896.2
72.5°	141.4	144.9	191.2	276.0	331.7	303.4	768.9	3312.1	4446.2	4609.9	3808.5
75°	102.0	105.4	131.1	198.0	258.9	198.9	352.3	2115.5	2726.7	2855.3	2293.8
77.5°	73.7	78.0	89.1	127.7	187.7	139.7	173.2	1104.9	1285.8	1263.5	986.6
80°	44.6	48.9	66.0	82.3	137.1	98.6	95.1	461.2	456.0	432.9	310.3
82.5°	20.6	24.0	35.1	55.7	96.0	68.6	45.4	164.6	144.0	132.0	87.4
85°	6.0	7.7	20.6	42.0	48.9	33.4	27.4	56.6	59.1	50.6	29.1
87.5°	0.0	0.9	9.4	10.3	14.6	11.1	10.3	14.6	27.4	22.3	9.4
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°	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7	691.7
2.5°	698.6	692.6	678.0	655.7	636.0	625.7	611.2	598.3	591.5	590.6	589.7
5°	715.7	699.5	664.3	624.0	594.0	561.5	539.2	522.9	507.5	492.9	501.5
7.5°	738.9	713.2	655.7	603.5	538.3	496.3	456.9	433.7	420.0	407.2	405.4
10°	774.9	742.3	649.7	555.5	480.9	419.2	378.9	345.4	326.6	304.3	312.9
12.5°	823.8	765.5	627.5	511.7	415.7	350.6	293.2	239.2	209.2	186.0	186.9
15°	872.6	796.3	606.9	458.6	356.6	270.9	186.9	150.0	141.4	136.3	138.0
17.5°	920.6	821.2	575.2	404.6	288.9	172.3	136.3	128.6	124.3	119.1	119.1
20°	978.9	837.5	535.7	354.9	198.9	127.7	116.6	111.4	104.6	97.7	98.6
22.5°	1035.5	851.2	490.3	291.4	133.7	110.6	97.7	90.9	84.9	78.0	78.0
25°	1092.0	855.5	431.2	209.2	108.0	88.3	76.3	66.9	60.9	54.9	55.7
27.5°	1130.6	828.9	375.4	133.7	86.6	66.9	53.1	45.4	40.3	34.3	34.3
30°	1152.9	780.0	315.4	94.3	65.1	45.4	31.7	24.0	18.9	14.6	13.7
32.5°	1175.2	740.6	247.7	72.0	42.9	24.0	12.0	4.3	0.0	0.0	0.0
35°	1219.8	696.0	166.3	40.3	14.6	0.9	0.0	0.0	0.0	0.0	0.0
37.5°	1248.1	634.3	76.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1319.2	603.5	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1434.9	582.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1561.8	573.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1730.6	596.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1908.9	659.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2104.4	718.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2275.0	789.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2588.7	957.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3151.9	1287.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3786.2	1532.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4018.5	1526.6	16.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3977.3	1442.6	16.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3763.9	1281.5	14.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3232.4	1058.6	14.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2464.4	824.6	13.7	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1487.2	438.9	11.1	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	592.3	154.3	8.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.3	46.3	5.1	3.4	2.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	42.0	17.1	4.3	3.4	1.7	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.3	6.9	3.4	2.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	2.6	1.7	1.7	0.9	0.9	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)