

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: P481778

Luminaire Tested: **IFLD-S-SA2A-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481778
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

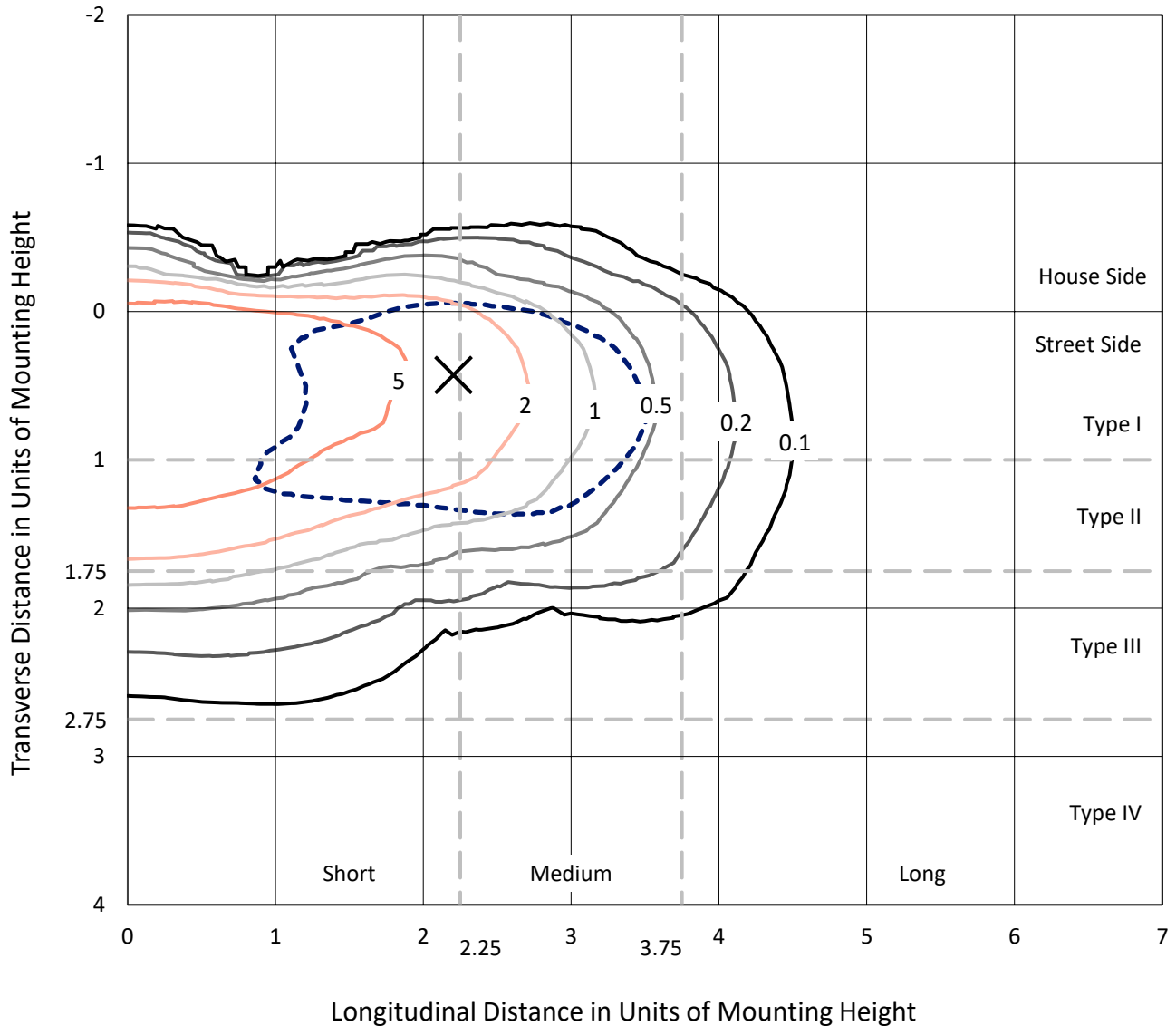
Lumens per Lamp: N/A
Luminaire Lumens: 4887.3 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

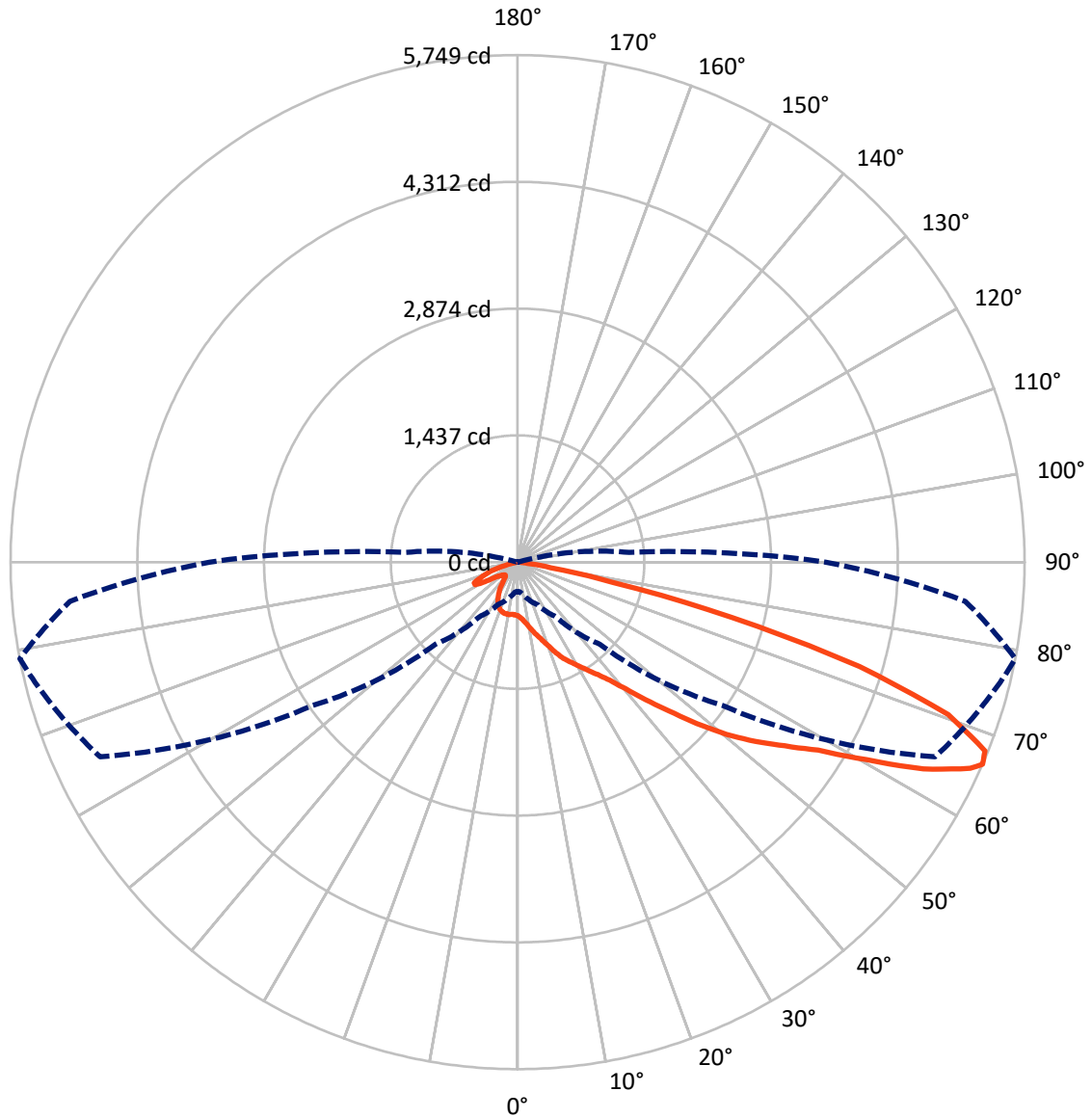
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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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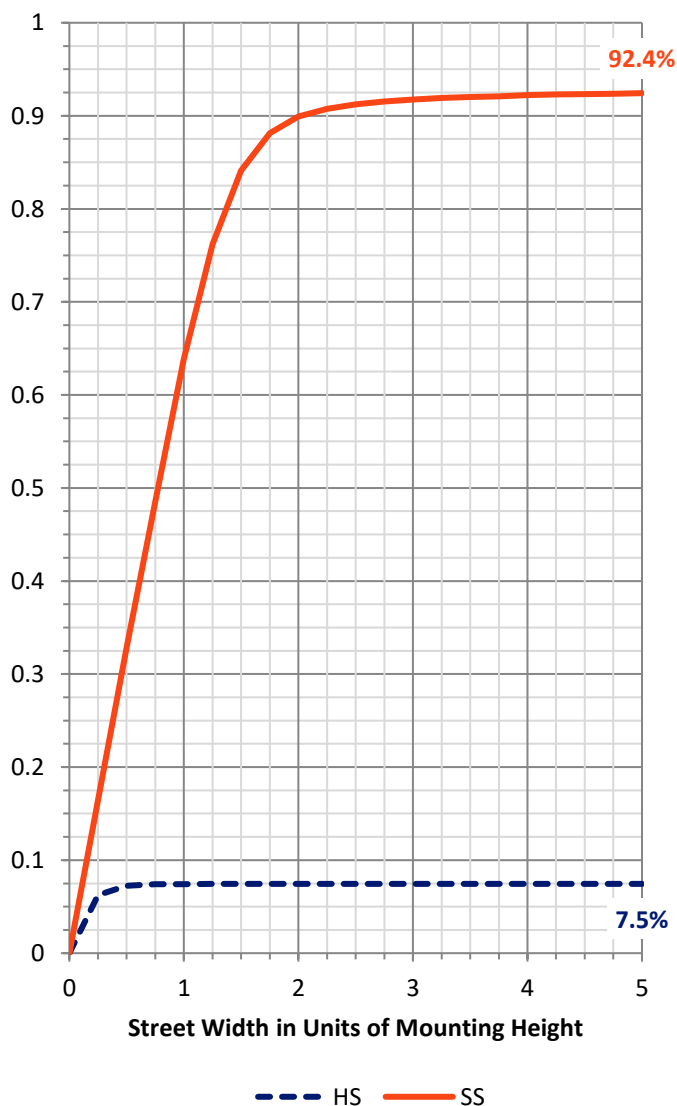
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	367.0	0.0	367.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	4520.3	0.0	4520.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	4887.3	0.0	4887.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.2
10°-20°	158.3	3.2
20°-30°	262.9	5.4
30°-40°	451.6	9.2
40°-50°	818.1	16.7
50°-60°	1293.1	26.5
60°-70°	1315.9	26.9
70°-80°	501.8	10.3
80°-90°	28.1	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°	4887.3	100.0
0°-180°	4887.3	100.0

Coefficient of Utilization



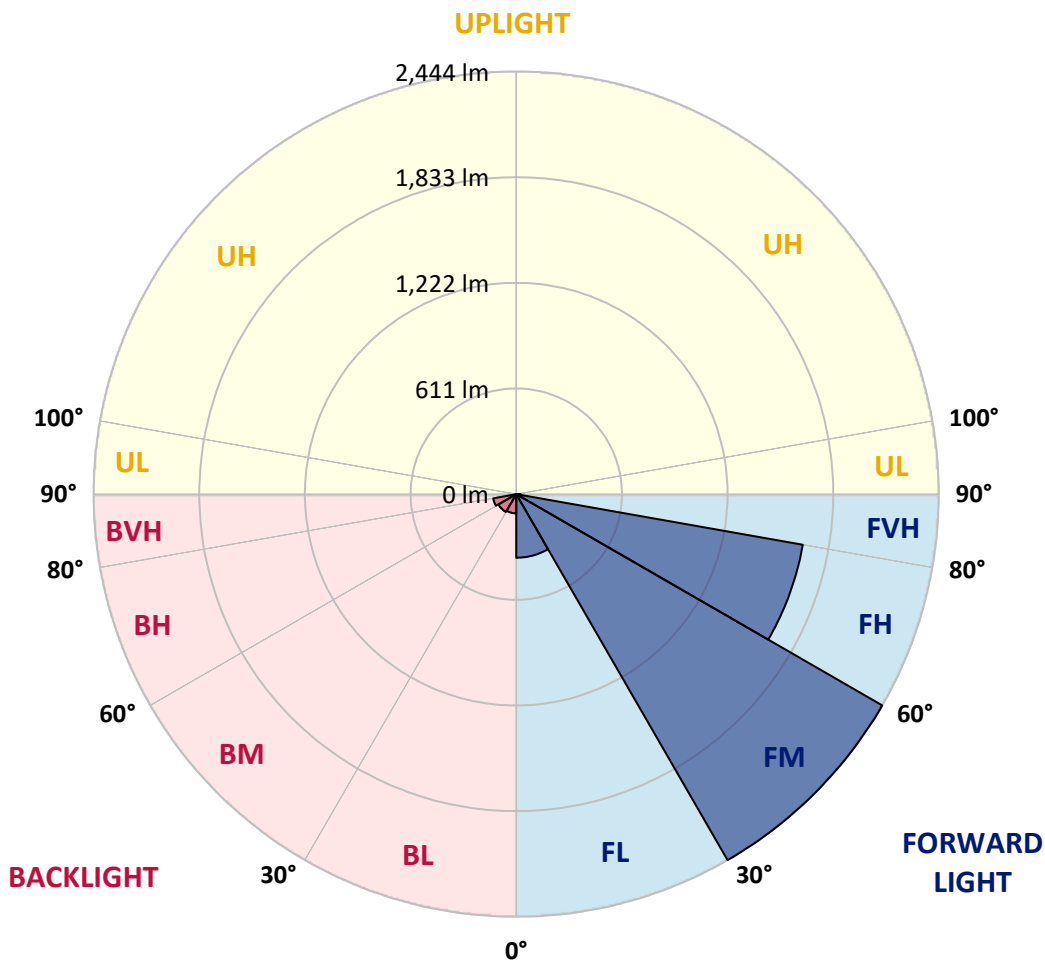
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.7	7.5			
FM (30°-60°)	2443.5	50.0			
FH (60°-80°)	1682.4	34.4			G1/1800
FVH (80°-90°)	26.7	0.5			G1/100
BL (0°-30°)	111.0	2.3	B1/500		
BM (30°-60°)	119.3	2.4	B0/220		
BH (60°-80°)	135.3	2.8	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
2.5°	688.7	687.9	684.9	679.6	672.8	670.6	660.8	647.2	639.7	631.4	627.6
5°	736.1	732.4	741.4	737.6	739.1	721.1	709.0	699.2	670.6	659.3	641.2
7.5°	746.7	750.4	749.7	755.7	761.7	768.5	760.2	745.9	717.3	700.7	681.1
10°	746.7	745.2	751.2	759.5	776.8	791.9	814.5	795.6	773.8	754.2	718.8
12.5°	733.1	730.9	736.9	754.2	785.1	816.0	840.9	858.9	828.0	812.2	766.3
15°	691.7	689.4	714.3	745.2	785.9	836.3	888.3	917.7	896.6	871.7	820.5
17.5°	640.4	643.5	669.8	721.1	785.9	846.1	912.4	976.5	973.5	941.8	888.3
20°	623.1	625.4	651.7	688.7	762.5	852.9	950.1	1040.5	1058.6	1020.9	950.9
22.5°	656.3	654.0	656.3	678.9	746.7	846.9	975.0	1113.6	1146.0	1116.6	1033.0
25°	769.3	767.8	748.9	714.3	737.6	833.3	987.8	1161.8	1236.4	1209.3	1099.3
27.5°	935.0	929.0	899.6	827.3	779.8	841.6	1008.9	1208.5	1315.5	1284.6	1158.8
30°	1112.9	1098.5	1060.1	969.7	889.1	872.5	1020.9	1243.2	1403.7	1364.5	1210.8
32.5°	1235.7	1254.5	1242.4	1150.5	1027.0	944.1	1040.5	1286.9	1485.1	1459.4	1299.7
35°	1425.5	1447.4	1396.9	1315.5	1191.2	1057.9	1082.0	1322.3	1610.1	1567.2	1382.6
37.5°	1665.1	1681.7	1645.5	1491.1	1360.0	1198.0	1167.1	1396.2	1717.9	1697.5	1488.8
40°	1785.7	1865.6	1814.3	1674.9	1534.0	1393.9	1308.0	1482.8	1905.5	1888.9	1635.8
42.5°	1952.2	1992.1	1965.8	1862.5	1715.6	1603.4	1482.0	1651.6	2133.0	2133.0	1834.7
45°	2128.5	2130.0	2128.5	2044.1	1913.8	1855.8	1717.1	1863.3	2377.9	2405.0	2072.8
47.5°	2273.2	2318.4	2314.6	2264.1	2163.2	2141.3	1952.2	2104.4	2685.3	2732.8	2304.8
50°	2347.8	2398.2	2413.3	2439.7	2435.2	2481.1	2209.1	2383.9	2950.5	3067.3	2603.2
52.5°	2327.4	2331.2	2423.9	2527.8	2693.6	2822.4	2518.8	2701.1	3261.0	3376.2	2833.7
55°	2160.9	2146.6	2337.2	2456.3	2799.1	3031.1	2947.5	3096.7	3502.8	3678.4	3071.8
57.5°	1795.5	1799.2	1975.6	2217.4	2720.7	3114.0	3405.6	3613.6	3841.9	4018.9	3406.4
60°	1239.4	1234.9	1432.3	1711.8	2260.4	2959.6	3669.3	4283.4	4295.4	4546.3	4006.9
62.5°	696.9	698.5	848.4	1087.2	1581.5	2418.6	3656.5	4994.7	4943.4	5163.4	4689.5
65°	394.8	404.6	507.8	644.2	947.1	1623.7	3144.9	5278.0	5443.0	5638.9	5103.9
66°	333.8	340.6	428.7	531.9	755.7	1317.0	2830.7	5222.9	5599.7	5748.9	5095.6
67.5°	258.4	267.5	341.3	421.9	554.5	911.7	2278.4	4949.4	5628.3	5715.7	4951.7
70°	177.1	183.1	239.6	320.2	379.0	466.4	1362.2	4092.0	5106.9	5180.8	4303.7
72.5°	124.3	127.3	168.0	242.6	291.6	266.7	675.8	2911.3	3908.2	4052.1	3347.6
75°	89.7	92.7	115.3	174.0	227.5	174.8	309.7	1859.5	2396.7	2509.8	2016.2
77.5°	64.8	68.6	78.4	112.3	165.0	122.8	152.2	971.2	1130.2	1110.6	867.2
80°	39.2	42.9	58.0	72.3	120.6	86.6	83.6	405.4	400.8	380.5	272.8
82.5°	18.1	21.1	30.9	49.0	84.4	60.3	39.9	144.7	126.6	116.0	76.9
85°	5.3	6.8	18.1	36.9	42.9	29.4	24.1	49.7	52.0	44.5	25.6
87.5°	0.0	0.8	8.3	9.0	12.8	9.8	9.0	12.8	24.1	19.6	8.3
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°	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
2.5°	614.1	608.8	596.0	576.4	559.1	550.0	537.2	525.9	519.9	519.1	518.4
5°	629.1	614.8	583.9	548.5	522.1	493.5	473.9	459.6	446.0	433.2	440.8
7.5°	649.5	626.9	576.4	530.4	473.2	436.3	401.6	381.2	369.2	357.9	356.4
10°	681.1	652.5	571.1	488.2	422.7	368.4	333.0	303.6	287.1	267.5	275.0
12.5°	724.1	672.8	551.5	449.8	365.4	308.2	257.7	210.2	183.8	163.5	164.3
15°	767.0	700.0	533.4	403.1	313.4	238.1	164.3	131.9	124.3	119.8	121.3
17.5°	809.2	721.8	505.6	355.6	253.9	151.4	119.8	113.0	109.3	104.7	104.7
20°	860.4	736.1	470.9	311.9	174.8	112.3	102.5	97.9	91.9	85.9	86.6
22.5°	910.2	748.2	431.0	256.2	117.5	97.2	85.9	79.9	74.6	68.6	68.6
25°	959.9	751.9	379.0	183.8	94.9	77.6	67.1	58.8	53.5	48.2	49.0
27.5°	993.8	728.6	330.0	117.5	76.1	58.8	46.7	39.9	35.4	30.1	30.1
30°	1013.4	685.6	277.3	82.9	57.3	39.9	27.9	21.1	16.6	12.8	12.1
32.5°	1033.0	651.0	217.7	63.3	37.7	21.1	10.5	3.8	0.0	0.0	0.0
35°	1072.2	611.8	146.2	35.4	12.8	0.8	0.0	0.0	0.0	0.0	0.0
37.5°	1097.0	557.6	67.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1159.6	530.4	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1261.3	511.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1372.8	504.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1521.2	524.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1677.9	579.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1849.7	631.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1999.7	693.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2275.4	841.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2770.5	1131.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3328.0	1347.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3532.2	1341.9	14.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3496.0	1268.1	14.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3308.4	1126.4	12.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2841.3	930.5	12.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2166.2	724.8	12.1	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1307.2	385.8	9.8	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	520.6	135.6	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.9	40.7	4.5	3.0	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	36.9	15.1	3.8	3.0	1.5	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.3	6.0	3.0	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0
87.5°	4.5	2.3	2.3	1.5	1.5	0.8	0.8	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)