

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: P484899

Luminaire Tested: **IFLD-S-SA2B-827-U-SL4-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484899  
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-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

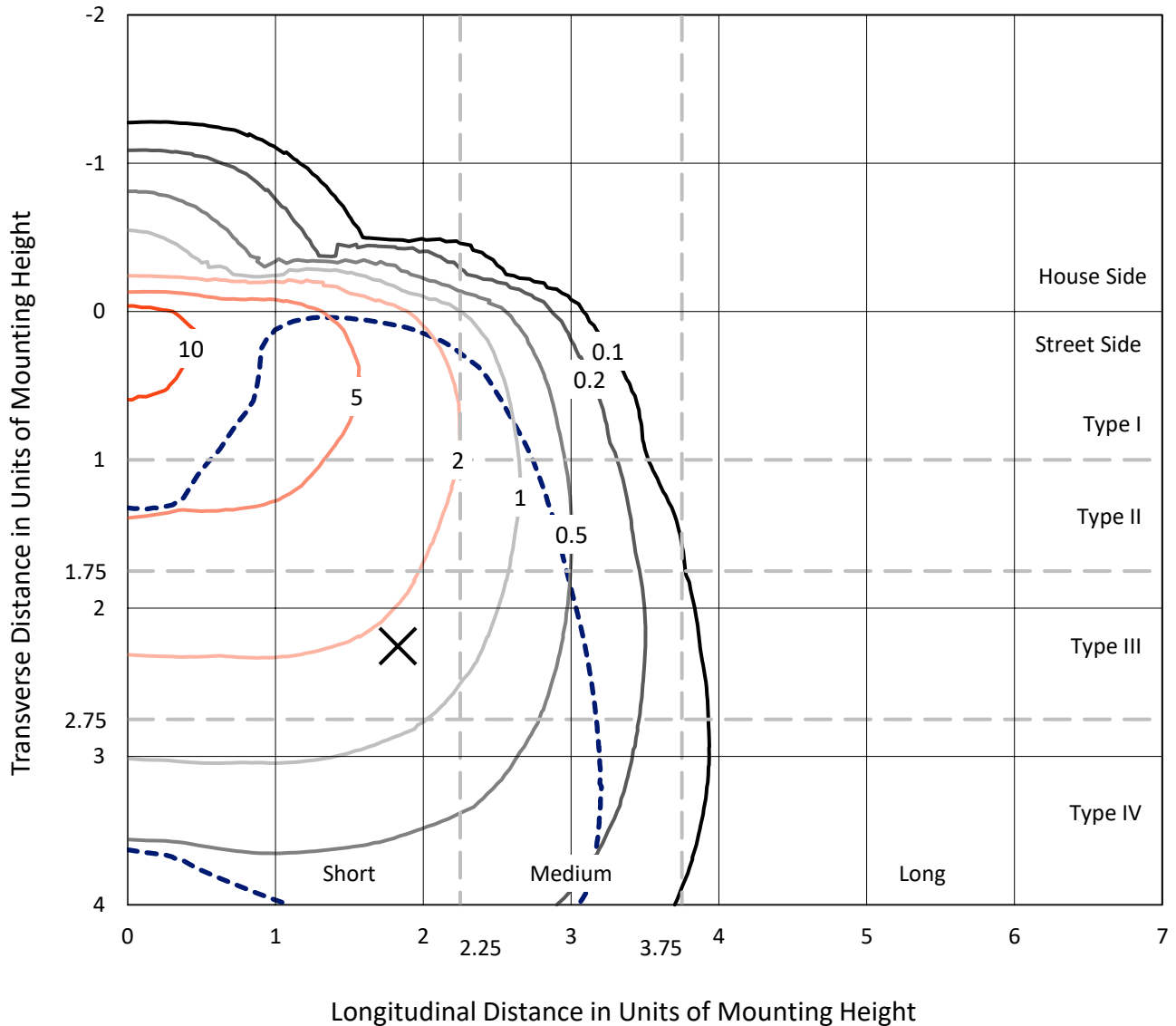
Lumens per Lamp: N/A  
Luminaire Lumens: 6933.8 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P484899  
 CATALOG NUMBER: IFLD-S-SA2B-827-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

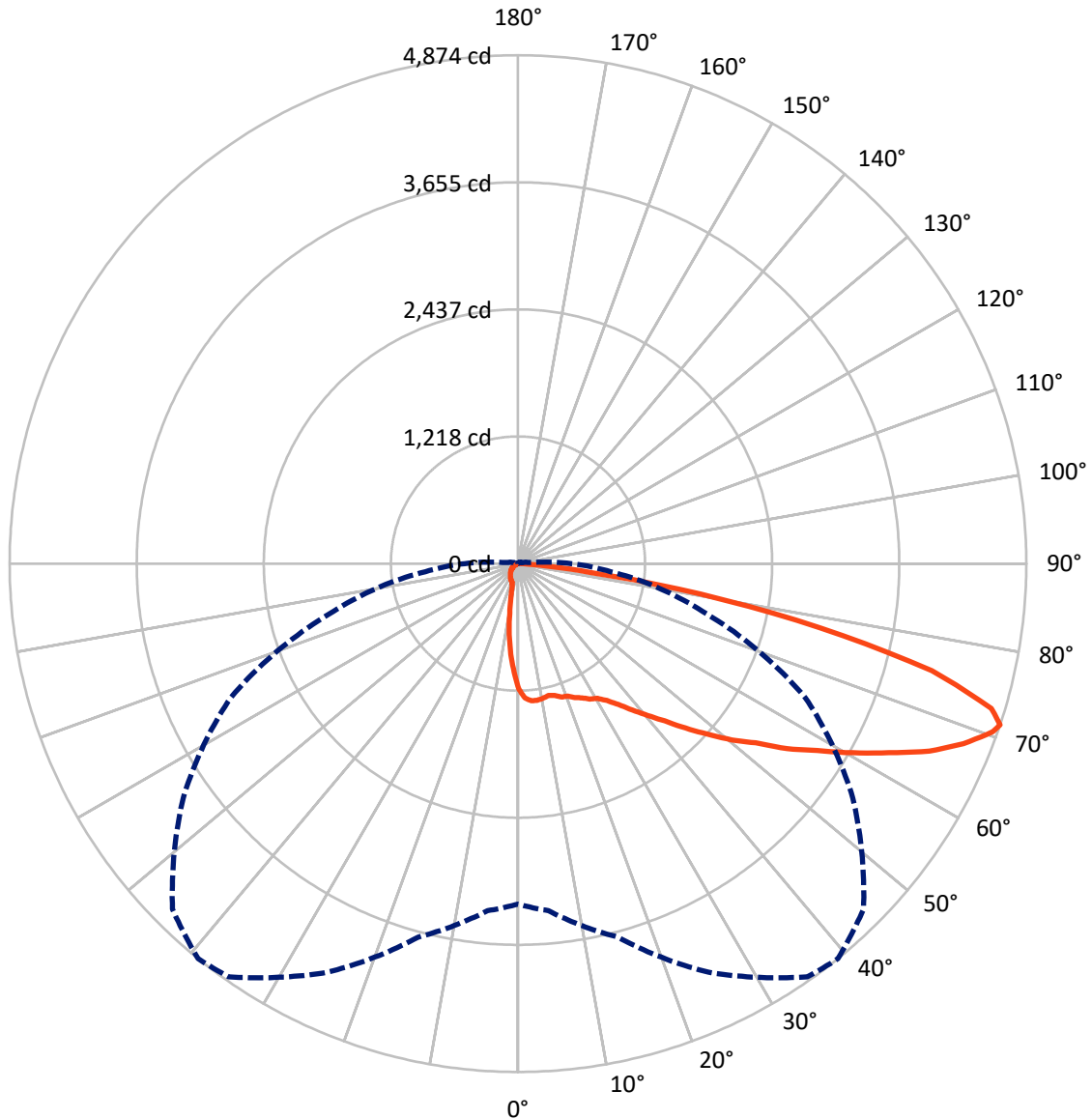
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484899  
CATALOG NUMBER: IFLD-S-SA2B-827-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484899

CATALOG NUMBER: IFLD-S-SA2B-827-U-SL4-HSS

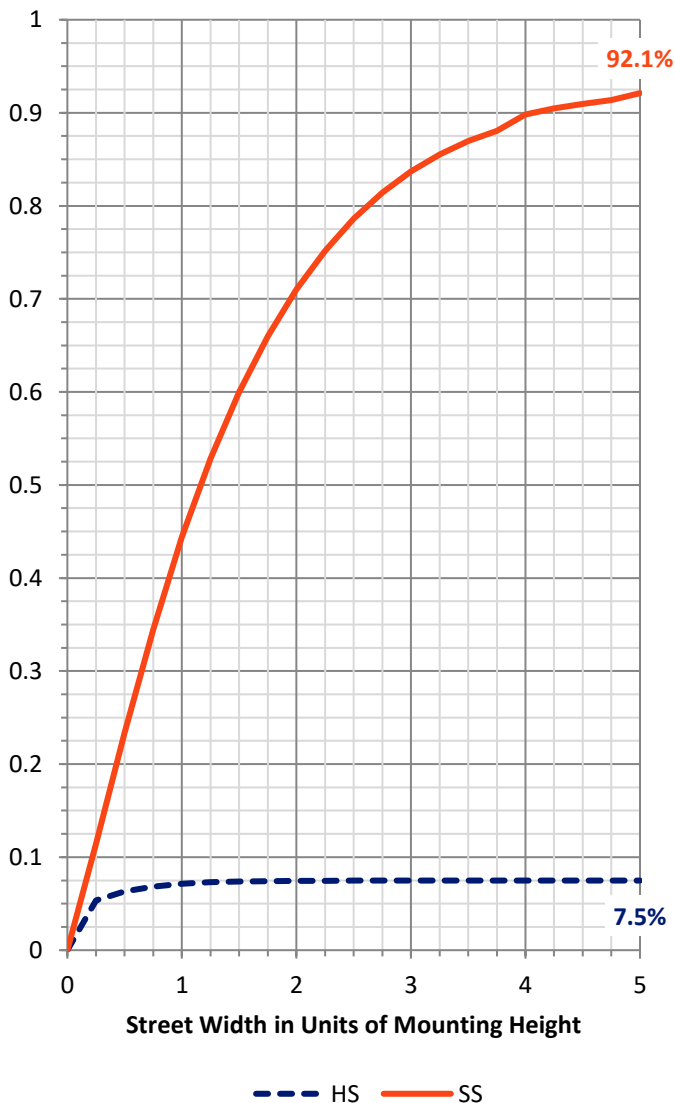
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	522.0	0.0	522.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	6411.8	0.0	6411.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	6933.8	0.0	6933.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	1.5
10°-20°	248.4	3.6
20°-30°	398.7	5.7
30°-40°	610.3	8.8
40°-50°	979.6	14.1
50°-60°	1438.9	20.8
60°-70°	1812.3	26.1
70°-80°	1209.5	17.4
80°-90°	135.2	1.9
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°	6933.8	100.0
0°-180°	6933.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P484899

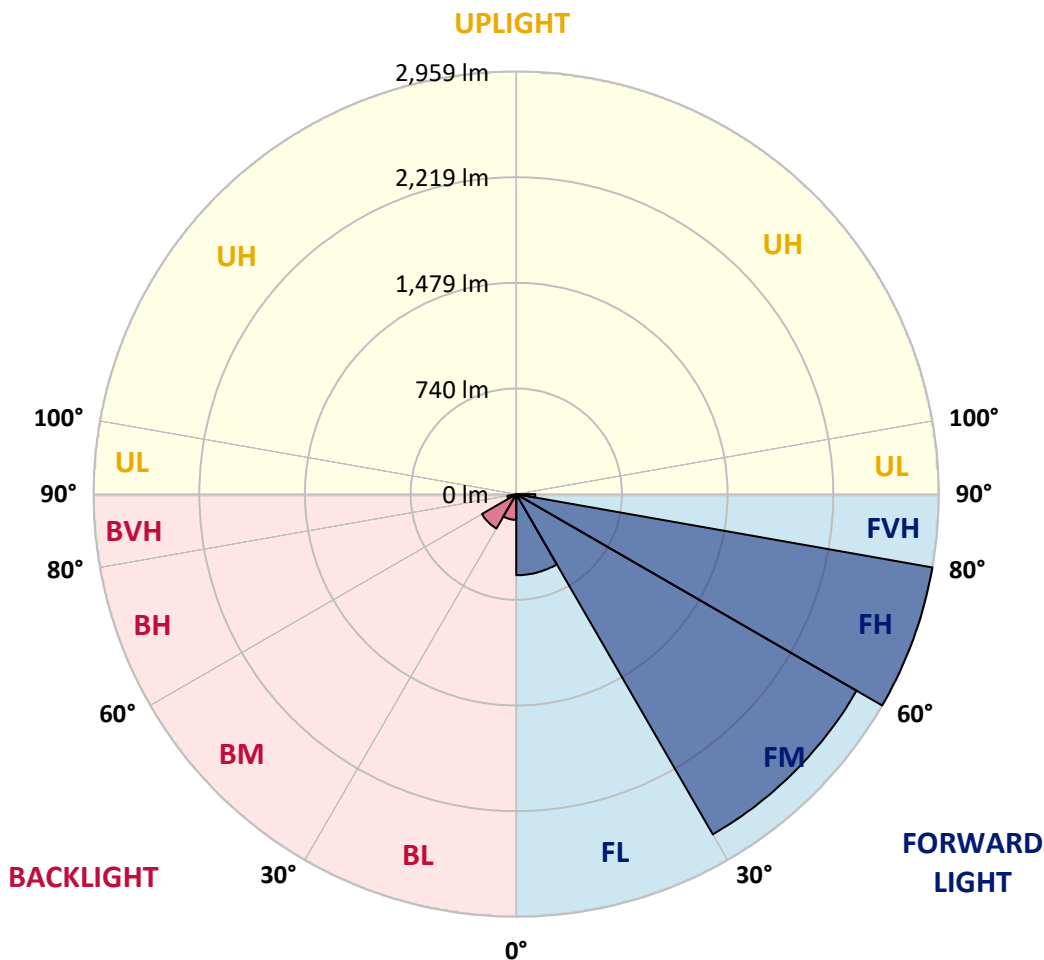
CATALOG NUMBER: IFLD-S-SA2B-827-U-SL4-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.7	8.2			
FM (30°-60°)	2751.4	39.7			
FH (60°-80°)	2958.9	42.7			G2/5000
FVH (80°-90°)	133.7	1.9			G2/225
BL (0°-30°)	180.2	2.6	B1/500		
BM (30°-60°)	277.5	4.0	B1/1000		
BH (60°-80°)	62.8	0.9	B0/110		G0/110
BVH (80°-90°)	1.5	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 IV Short





REPORT NUMBER: P484899

CATALOG NUMBER: IFLD-S-SA2B-827-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1300.5	1313.3	1300.5	1295.1	1289.6	1290.5	1276.0	1278.7	1261.4	1238.7	1220.5
5°	1341.5	1358.7	1345.1	1338.7	1337.8	1320.6	1313.3	1296.0	1275.1	1239.6	1217.8
7.5°	1337.8	1334.2	1340.6	1335.1	1323.3	1323.3	1315.1	1290.5	1269.6	1229.6	1192.3
10°	1310.5	1321.5	1316.0	1309.6	1312.4	1313.3	1297.8	1280.5	1274.2	1234.2	1173.2
12.5°	1307.8	1289.6	1309.6	1310.5	1298.7	1297.8	1296.0	1291.4	1271.4	1235.1	1177.8
15°	1298.7	1291.4	1311.5	1312.4	1315.1	1312.4	1315.1	1311.5	1291.4	1270.5	1197.8
17.5°	1306.0	1297.8	1326.0	1339.6	1333.3	1346.0	1341.5	1325.1	1307.8	1283.3	1216.9
20°	1307.8	1319.6	1350.6	1356.0	1376.0	1355.1	1354.2	1336.9	1326.0	1299.6	1228.7
22.5°	1341.5	1346.9	1385.1	1396.9	1397.9	1395.1	1372.4	1352.4	1347.8	1315.1	1231.4
25°	1392.4	1411.5	1428.8	1436.1	1438.8	1426.0	1402.4	1376.9	1366.0	1345.1	1259.6
27.5°	1482.4	1470.6	1486.1	1497.0	1466.1	1470.6	1440.6	1418.8	1403.3	1385.1	1292.4
30°	1562.5	1551.6	1552.5	1550.6	1524.3	1499.7	1491.5	1453.3	1434.2	1441.5	1343.3
32.5°	1634.3	1610.7	1630.7	1621.6	1572.5	1565.2	1558.8	1510.6	1514.3	1547.9	1419.7
35°	1700.7	1692.5	1708.9	1692.5	1659.8	1658.0	1651.6	1609.8	1629.8	1678.0	1550.6
37.5°	1761.6	1764.4	1784.4	1776.2	1778.9	1780.7	1777.1	1732.5	1789.8	1898.1	1703.4
40°	1818.0	1814.4	1863.5	1889.0	1894.4	1914.4	1914.4	1903.5	1991.7	2113.6	1915.3
42.5°	1878.1	1887.2	1950.8	1993.6	2045.4	2062.7	2086.3	2091.8	2228.2	2367.4	2131.8
45°	1976.3	1960.8	2041.8	2142.7	2188.2	2249.1	2285.5	2316.4	2481.0	2672.0	2348.3
47.5°	2100.9	2070.0	2140.9	2287.3	2392.8	2442.8	2508.3	2549.2	2710.2	2907.6	2552.9
50°	2239.1	2207.3	2241.8	2443.7	2566.5	2657.5	2741.1	2793.0	2987.6	3171.3	2702.0
52.5°	2395.5	2366.4	2371.9	2606.5	2787.5	2853.9	2964.0	3041.3	3235.0	3330.5	2754.8
55°	2562.0	2554.7	2537.4	2765.7	2981.2	3130.4	3196.8	3289.6	3488.7	3416.9	2812.1
57.5°	2729.3	2706.6	2731.1	2976.7	3292.3	3381.4	3473.3	3528.7	3629.7	3492.4	2790.3
60°	2886.7	2888.5	2923.0	3205.9	3556.9	3683.4	3766.1	3732.5	3774.3	3525.1	2740.2
62.5°	3019.4	3015.8	3103.1	3463.3	3907.1	3992.6	4054.4	3904.4	3841.6	3556.9	2652.9
65°	3138.6	3179.5	3316.8	3769.8	4236.3	4334.5	4297.2	4067.2	3907.1	3463.3	2407.4
67.5°	3228.6	3289.6	3527.8	4058.1	4538.3	4607.4	4555.5	4190.8	3829.8	3095.8	1960.8
70°	3281.4	3343.2	3678.8	4298.2	4779.3	4829.3	4707.4	4095.3	3378.7	2241.8	1223.2
71°	3265.0	3340.5	3707.9	4323.6	4836.6	4873.9	4684.7	3918.9	3038.5	1877.1	892.2
72.5°	3116.8	3187.7	3587.0	4305.4	4767.4	4744.7	4507.3	3495.1	2391.9	1196.9	461.1
75°	2290.0	2366.4	3078.6	3724.3	4255.4	4099.0	3647.9	2452.8	1247.8	366.5	134.6
77.5°	1140.5	1153.2	1910.8	2703.9	3121.3	2965.8	2444.7	1367.8	466.6	108.2	67.3
80°	525.7	529.3	716.7	1400.6	1887.2	1776.2	1369.7	674.8	211.0	57.3	52.7
82.5°	358.3	363.8	432.0	580.2	819.4	691.2	554.8	432.0	121.0	34.6	51.8
85°	65.5	60.0	241.9	307.4	316.5	214.6	191.9	373.8	45.5	20.0	45.5
87.5°	0.0	0.9	33.7	125.5	112.8	50.0	65.5	90.9	4.5	6.4	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484899

CATALOG NUMBER: IFLD-S-SA2B-827-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1205.0	1195.0	1161.4	1124.1	1090.5	1064.1	1030.4	1015.0	990.4	976.8	975.9
5°	1187.8	1160.5	1102.3	1039.5	969.5	911.3	846.7	810.3	768.5	755.8	753.0
7.5°	1158.7	1119.6	1034.1	945.8	838.5	735.8	656.6	572.1	520.2	498.4	490.2
10°	1140.5	1093.2	976.8	844.9	694.8	550.2	439.3	349.2	301.9	279.2	273.8
12.5°	1140.5	1089.5	930.4	748.5	549.3	376.5	271.9	220.1	204.6	199.2	199.2
15°	1137.7	1082.3	885.8	649.4	406.5	252.8	202.8	191.9	190.1	189.2	188.3
17.5°	1151.4	1069.5	840.4	543.0	287.4	199.2	186.4	184.6	182.8	182.8	181.0
20°	1161.4	1062.3	785.8	430.2	214.6	184.6	179.2	176.4	175.5	174.6	176.4
22.5°	1153.2	1051.3	718.5	322.0	187.4	175.5	171.9	169.2	167.3	167.3	168.3
25°	1168.7	1041.3	651.2	242.8	175.5	167.3	163.7	161.9	161.0	160.1	158.2
27.5°	1189.6	1045.9	571.1	195.5	165.5	159.2	155.5	153.7	152.8	151.0	152.8
30°	1215.1	1045.0	482.9	171.0	156.4	150.1	146.4	145.5	143.7	142.8	143.7
32.5°	1258.7	1068.6	392.0	158.2	146.4	141.0	137.3	136.4	135.5	134.6	133.7
35°	1352.4	1097.7	306.5	148.2	137.3	131.0	128.2	126.4	125.5	124.6	123.7
37.5°	1467.9	1162.3	233.7	139.1	128.2	121.9	119.1	118.2	114.6	113.7	112.8
40°	1612.5	1231.4	180.1	129.1	120.1	113.7	111.0	108.2	103.7	101.9	100.0
42.5°	1792.6	1298.7	148.2	120.1	111.0	106.4	101.9	97.3	93.7	90.0	88.2
45°	1972.6	1376.9	130.1	111.9	103.7	98.2	94.6	88.2	81.9	76.4	75.5
47.5°	2122.7	1405.1	119.1	102.8	96.4	91.9	86.4	78.2	69.1	63.7	62.8
50°	2234.6	1388.8	108.2	93.7	88.2	83.7	76.4	66.4	57.3	51.8	50.0
52.5°	2256.4	1316.9	98.2	86.4	80.0	74.6	66.4	55.5	45.5	40.0	39.1
55°	2240.9	1197.8	90.0	80.0	72.8	64.6	55.5	44.6	35.5	30.0	29.1
57.5°	2209.1	1056.8	80.9	71.8	63.7	55.5	45.5	36.4	26.4	20.9	20.9
60°	2100.9	864.9	71.8	62.8	54.6	47.3	37.3	26.4	18.2	13.6	12.7
62.5°	1949.9	664.8	62.8	53.7	47.3	39.1	29.1	19.1	10.9	7.3	7.3
65°	1674.3	465.6	52.7	44.6	39.1	31.8	21.8	11.8	6.4	2.7	2.7
67.5°	1272.3	288.3	43.7	37.3	33.7	25.5	15.5	7.3	2.7	0.9	0.0
70°	730.3	150.1	34.6	30.0	26.4	19.1	10.9	3.6	1.8	0.0	0.0
71°	510.2	111.0	30.9	26.4	23.6	17.3	9.1	2.7	0.9	0.0	0.0
72.5°	255.6	73.7	26.4	21.8	19.1	13.6	7.3	2.7	0.9	0.0	0.0
75°	90.9	47.3	18.2	14.6	13.6	10.0	4.5	1.8	0.9	0.0	0.0
77.5°	62.8	38.2	12.7	9.1	9.1	6.4	2.7	0.9	0.9	0.0	0.0
80°	57.3	20.9	8.2	5.5	4.5	3.6	1.8	0.9	0.0	0.0	0.0
82.5°	57.3	15.5	4.5	3.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
85°	40.0	8.2	2.7	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.7	1.8	0.9	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)