

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: P481545

Luminaire Tested: **IFLD-S-SA2B-727-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481545  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-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**

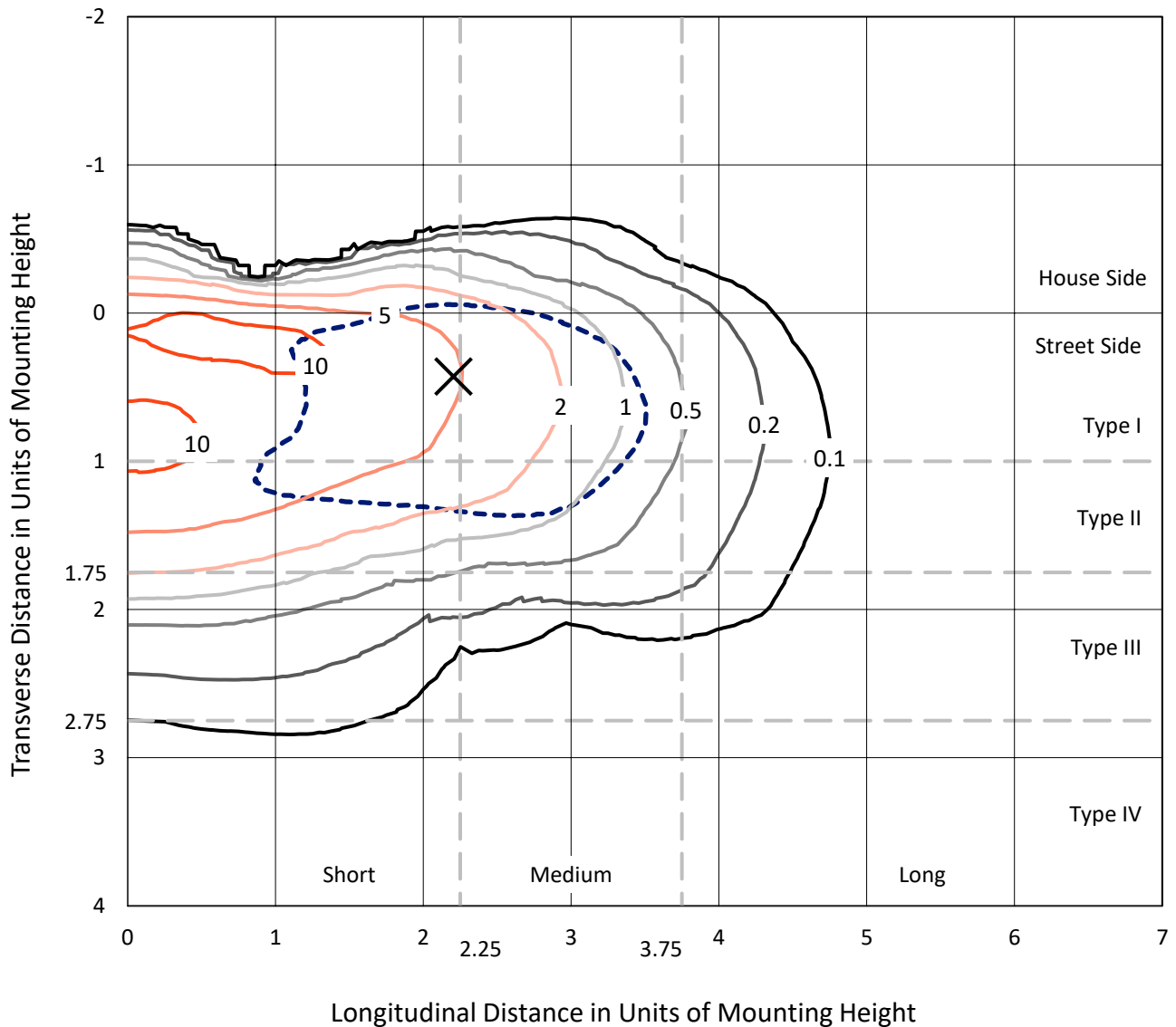
Lumens per Lamp: N/A  
Luminaire Lumens: 6876.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
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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 CATALOG NUMBER: IFLD-S-SA2B-727-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

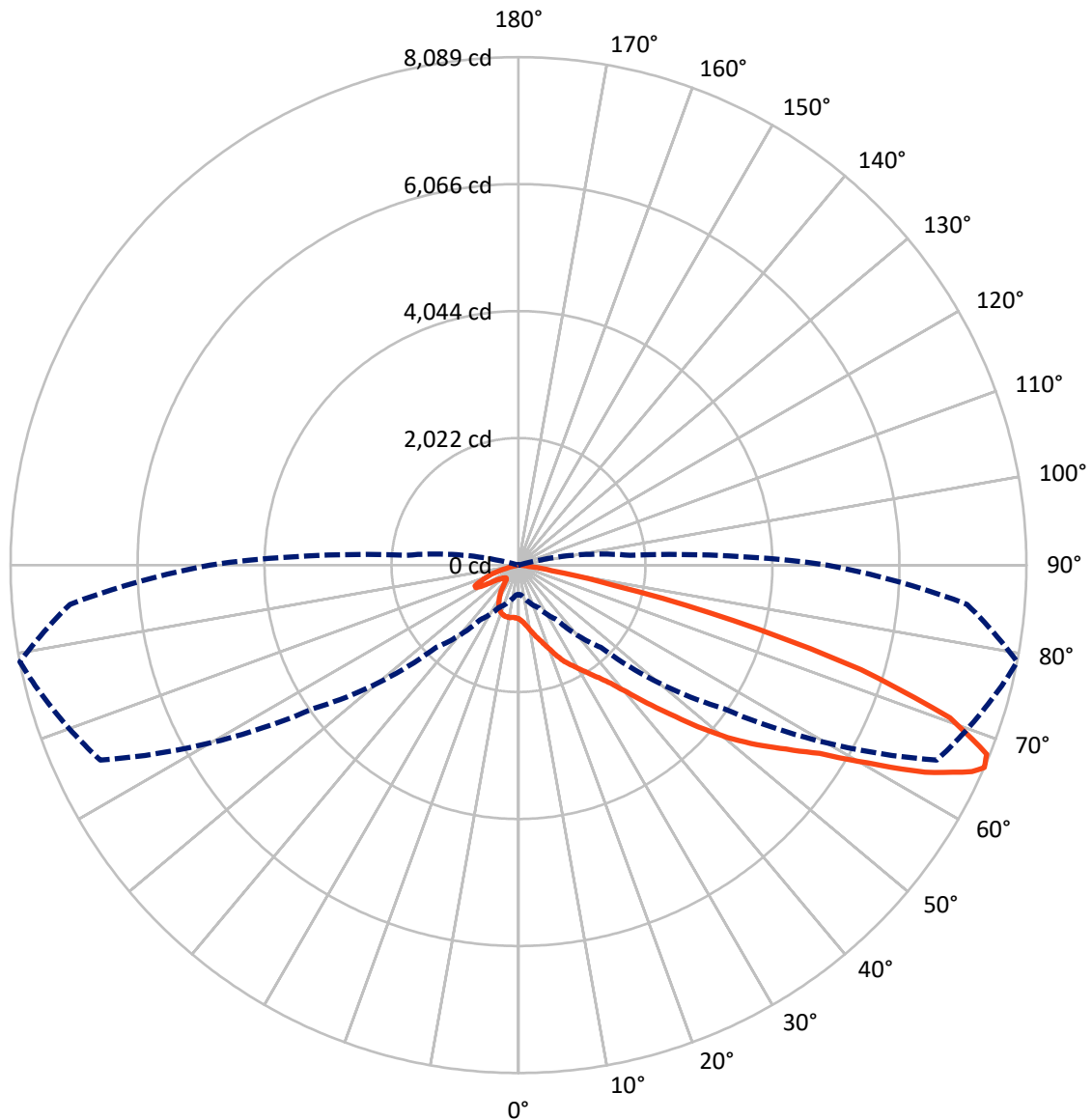
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2B-727-U-T2-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-S-SA2B-727-U-T2-HSS

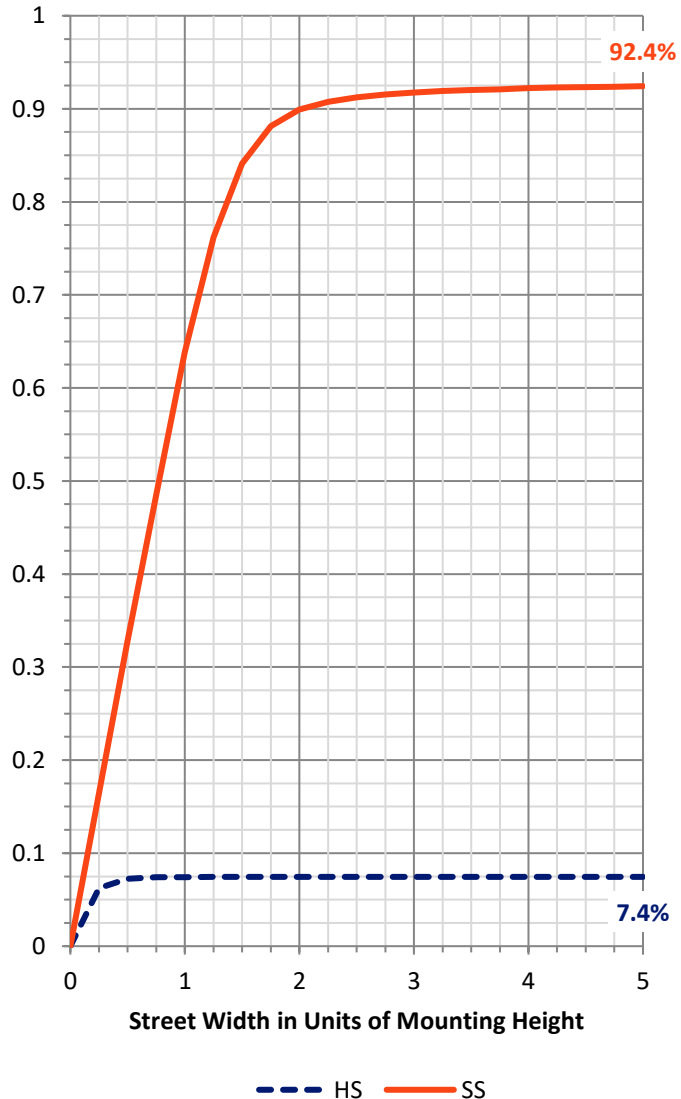
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	516.3	0.0	516.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	6360.0	0.0	6360.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	6876.4	0.0	6876.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.9	1.2
10°-20°	222.7	3.2
20°-30°	369.9	5.4
30°-40°	635.4	9.2
40°-50°	1151.0	16.7
50°-60°	1819.4	26.5
60°-70°	1851.4	26.9
70°-80°	706.0	10.3
80°-90°	39.6	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°	6876.4	100.0
0°-180°	6876.4	100.0

**Coefficient of Utilization**



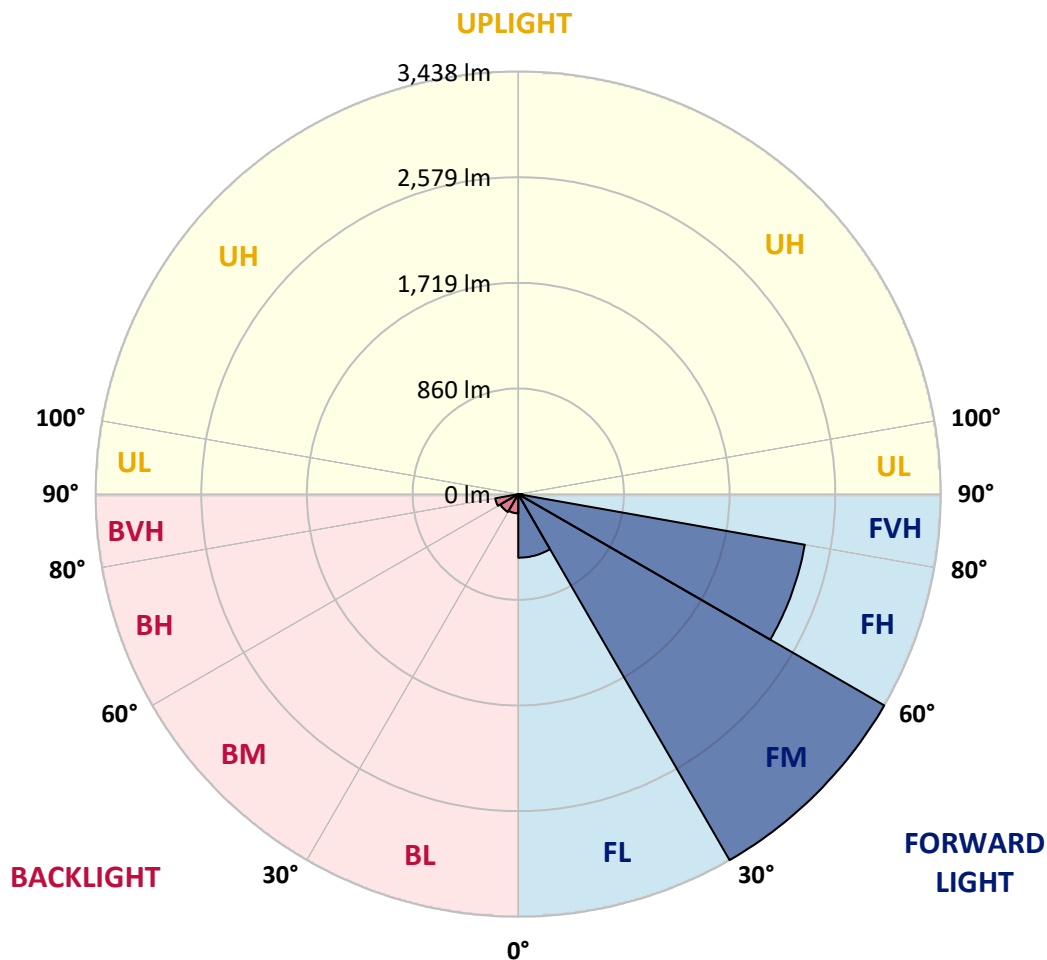
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 CATALOG NUMBER: IFLD-S-SA2B-727-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.3	7.5			
FM (30°-60°)	3438.0	50.0			
FH (60°-80°)	2367.1	34.4			G2/5000
FVH (80°-90°)	37.6	0.5			G1/100
BL (0°-30°)	156.2	2.3	B1/500		
BM (30°-60°)	167.8	2.4	B0/220		
BH (60°-80°)	190.3	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°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	968.9	967.9	963.6	956.2	946.7	943.5	929.7	910.6	900.0	888.4	883.1
5°	1035.7	1030.4	1043.1	1037.8	1040.0	1014.5	997.6	983.8	943.5	927.6	902.1
7.5°	1050.6	1055.9	1054.8	1063.3	1071.8	1081.3	1069.6	1049.5	1009.2	985.9	958.3
10°	1050.6	1048.4	1056.9	1068.6	1093.0	1114.2	1146.0	1119.5	1088.7	1061.2	1011.3
12.5°	1031.5	1028.3	1036.8	1061.2	1104.6	1148.1	1183.1	1208.5	1165.1	1142.8	1078.1
15°	973.2	970.0	1005.0	1048.4	1105.7	1176.7	1249.9	1291.2	1261.5	1226.5	1154.5
17.5°	901.1	905.3	942.4	1014.5	1105.7	1190.5	1283.8	1373.9	1369.7	1325.1	1249.9
20°	876.7	879.9	917.0	968.9	1072.8	1200.0	1336.8	1464.0	1489.4	1436.4	1337.8
22.5°	923.3	920.2	923.3	955.2	1050.6	1191.6	1371.8	1566.8	1612.4	1571.1	1453.4
25°	1082.4	1080.2	1053.7	1005.0	1037.8	1172.5	1389.8	1634.7	1739.6	1701.5	1546.7
27.5°	1315.6	1307.1	1265.8	1164.0	1097.2	1184.1	1419.5	1700.4	1850.9	1807.5	1630.4
30°	1565.8	1545.6	1491.6	1364.4	1250.9	1227.6	1436.4	1749.2	1975.0	1919.8	1703.6
32.5°	1738.6	1765.1	1748.1	1618.8	1444.9	1328.3	1464.0	1810.7	2089.5	2053.4	1828.7
35°	2005.7	2036.5	1965.4	1850.9	1676.0	1488.4	1522.3	1860.5	2265.4	2205.0	1945.3
37.5°	2342.8	2366.1	2315.3	2097.9	1913.5	1685.6	1642.1	1964.4	2417.0	2388.4	2094.8
40°	2512.4	2624.8	2552.7	2356.6	2158.4	1961.2	1840.3	2086.3	2681.0	2657.7	2301.5
42.5°	2746.7	2802.9	2765.8	2620.6	2413.9	2255.9	2085.2	2323.7	3001.2	3001.2	2581.4
45°	2994.8	2996.9	2994.8	2876.1	2692.7	2611.0	2416.0	2621.6	3345.7	3383.8	2916.3
47.5°	3198.3	3261.9	3256.6	3185.6	3043.6	3012.8	2746.7	2960.9	3778.2	3845.0	3242.9
50°	3303.3	3374.3	3395.5	3432.6	3426.3	3490.9	3108.2	3354.2	4151.4	4315.7	3662.7
52.5°	3274.7	3280.0	3410.4	3556.6	3789.9	3971.1	3543.9	3800.5	4588.1	4750.3	3987.0
55°	3040.4	3020.2	3288.4	3455.9	3938.3	4264.8	4147.1	4357.0	4928.4	5175.4	4322.0
57.5°	2526.2	2531.5	2779.6	3119.9	3828.0	4381.4	4791.7	5084.3	5405.5	5654.6	4792.7
60°	1743.9	1737.5	2015.3	2408.6	3180.3	4164.1	5162.7	6026.7	6043.6	6396.7	5637.6
62.5°	980.6	982.7	1193.7	1529.7	2225.2	3402.9	5144.7	7027.4	6955.3	7264.9	6598.1
65°	555.5	569.3	714.5	906.4	1332.5	2284.5	4424.9	7426.0	7658.2	7933.8	7181.1
66°	469.6	479.2	603.2	748.4	1063.3	1853.1	3982.8	7348.6	7878.7	8088.6	7169.5
67.5°	363.6	376.3	480.2	593.7	780.2	1282.7	3205.8	6963.8	7919.0	8041.9	6967.0
70°	249.1	257.6	337.1	450.5	533.2	656.2	1916.7	5757.4	7185.4	7289.3	6055.3
72.5°	174.9	179.2	236.4	341.4	410.3	375.3	950.9	4096.2	5498.8	5701.2	4710.0
75°	126.2	130.4	162.2	244.9	320.2	245.9	435.7	2616.3	3372.2	3531.2	2836.8
77.5°	91.2	96.5	110.3	158.0	232.2	172.8	214.1	1366.5	1590.2	1562.6	1220.2
80°	55.1	60.4	81.6	101.8	169.6	121.9	117.7	570.3	564.0	535.4	383.8
82.5°	25.4	29.7	43.5	68.9	118.7	84.8	56.2	203.5	178.1	163.3	108.1
85°	7.4	9.5	25.4	51.9	60.4	41.3	33.9	70.0	73.1	62.5	36.0
87.5°	0.0	1.1	11.7	12.7	18.0	13.8	12.7	18.0	33.9	27.6	11.7
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°	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5	855.5
2.5°	864.0	856.6	838.5	811.0	786.6	773.9	755.9	740.0	731.5	730.4	729.4
5°	885.2	865.0	821.6	771.8	734.7	694.4	666.8	646.7	627.6	609.6	620.2
7.5°	913.8	882.0	811.0	746.3	665.7	613.8	565.0	536.4	519.5	503.5	501.4
10°	958.3	918.0	803.6	686.9	594.7	518.4	468.6	427.2	403.9	376.3	386.9
12.5°	1018.8	946.7	776.0	632.9	514.1	433.6	362.6	295.8	258.7	230.0	231.1
15°	1079.2	984.8	750.6	567.2	441.0	335.0	231.1	185.5	174.9	168.6	170.7
17.5°	1138.6	1015.6	711.3	500.4	357.3	213.1	168.6	159.0	153.7	147.4	147.4
20°	1210.6	1035.7	662.6	438.9	245.9	158.0	144.2	137.8	129.3	120.9	121.9
22.5°	1280.6	1052.7	606.4	360.4	165.4	136.8	120.9	112.4	105.0	96.5	96.5
25°	1350.6	1058.0	533.2	258.7	133.6	109.2	94.3	82.7	75.3	67.8	68.9
27.5°	1398.3	1025.1	464.3	165.4	107.1	82.7	65.7	56.2	49.8	42.4	42.4
30°	1425.8	964.7	390.1	116.6	80.6	56.2	39.2	29.7	23.3	18.0	17.0
32.5°	1453.4	915.9	306.4	89.0	53.0	29.7	14.8	5.3	0.0	0.0	0.0
35°	1508.5	860.8	205.7	49.8	18.0	1.1	0.0	0.0	0.0	0.0	0.0
37.5°	1543.5	784.5	94.3	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1631.5	746.3	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1774.6	719.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1931.5	709.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2140.3	737.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2360.8	815.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2602.6	888.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2813.5	976.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3201.5	1184.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3898.0	1592.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4682.5	1895.5	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4969.8	1888.0	20.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4918.9	1784.2	20.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4654.9	1584.9	18.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3997.6	1309.2	18.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3047.8	1019.8	17.0	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1839.3	542.8	13.8	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	732.5	190.8	10.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.2	57.2	6.4	4.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	51.9	21.2	5.3	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	20.1	8.5	4.2	3.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	3.2	2.1	2.1	1.1	1.1	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)