

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: P481388

Luminaire Tested: **IFLD-S-SA2A-827-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481388  
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-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

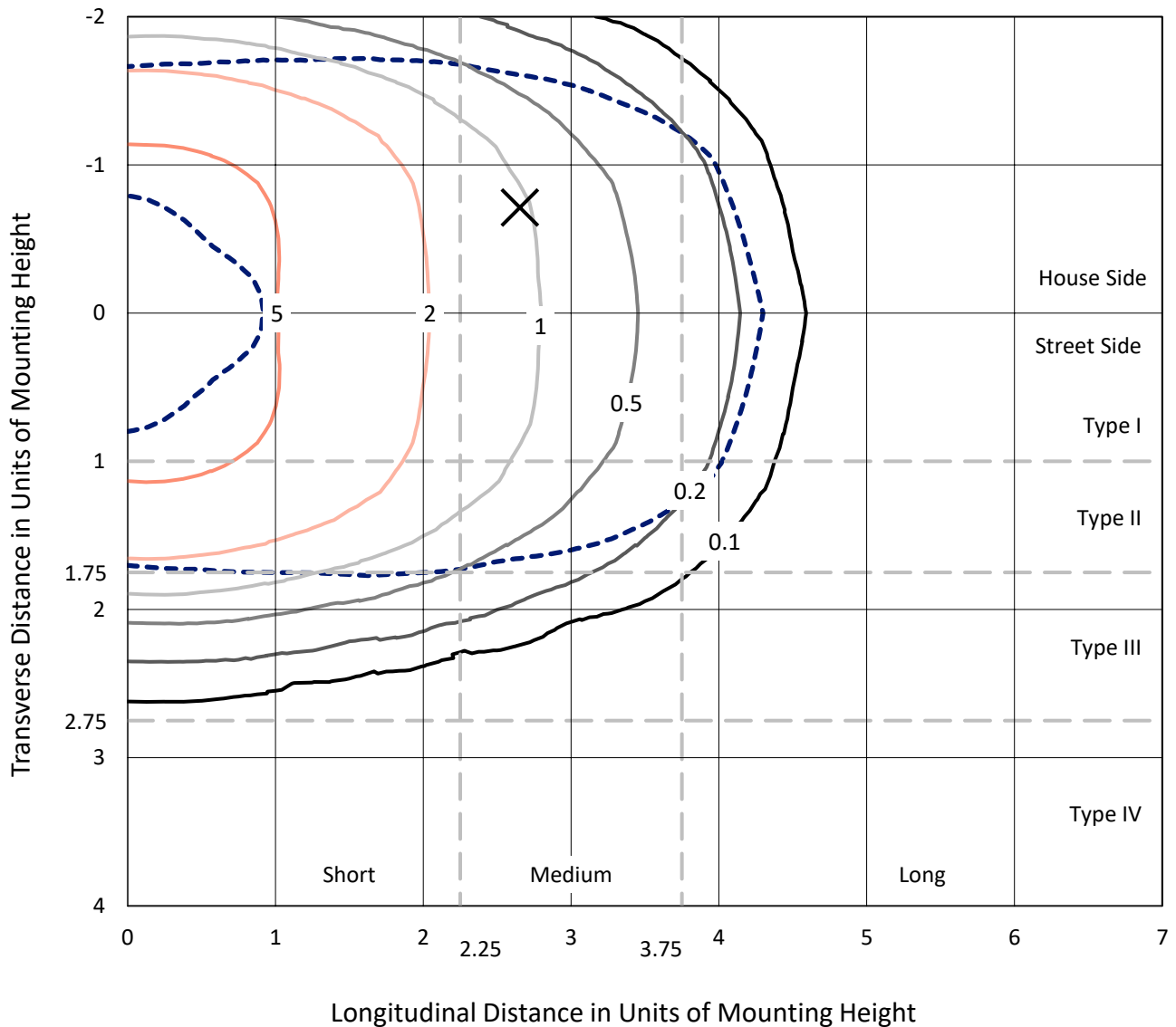
Lumens per Lamp: N/A  
Luminaire Lumens: 6990.4 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

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

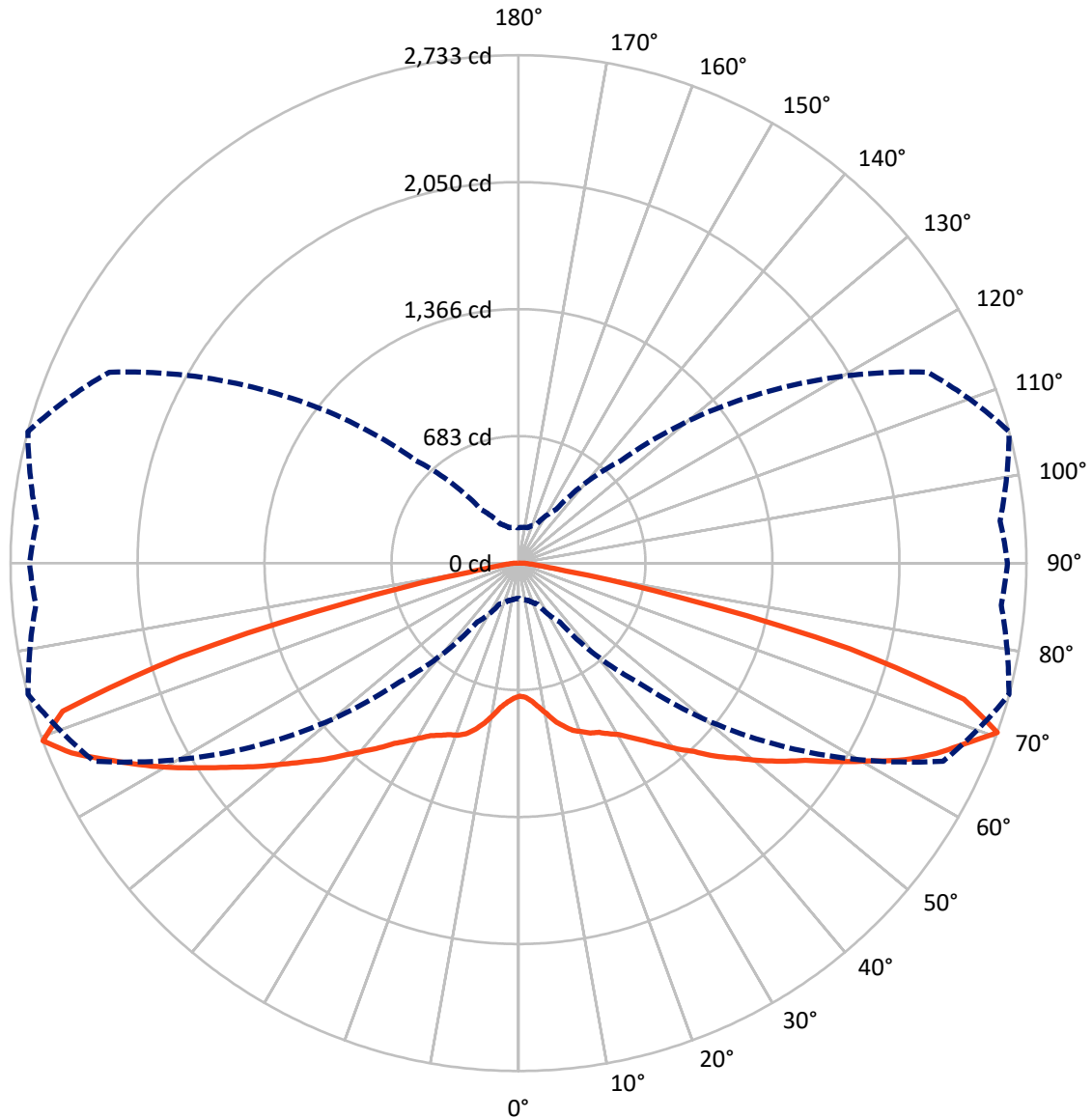
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3470.3	0.0	3470.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	3520.1	0.0	3520.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	6990.4	0.0	6990.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	1.0
10°-20°	242.6	3.5
20°-30°	469.7	6.7
30°-40°	794.5	11.4
40°-50°	1267.5	18.1
50°-60°	1734.9	24.8
60°-70°	1635.3	23.4
70°-80°	720.4	10.3
80°-90°	54.2	0.8
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°	6990.4	100.0
0°-180°	6990.4	100.0

**Coefficient of Utilization**



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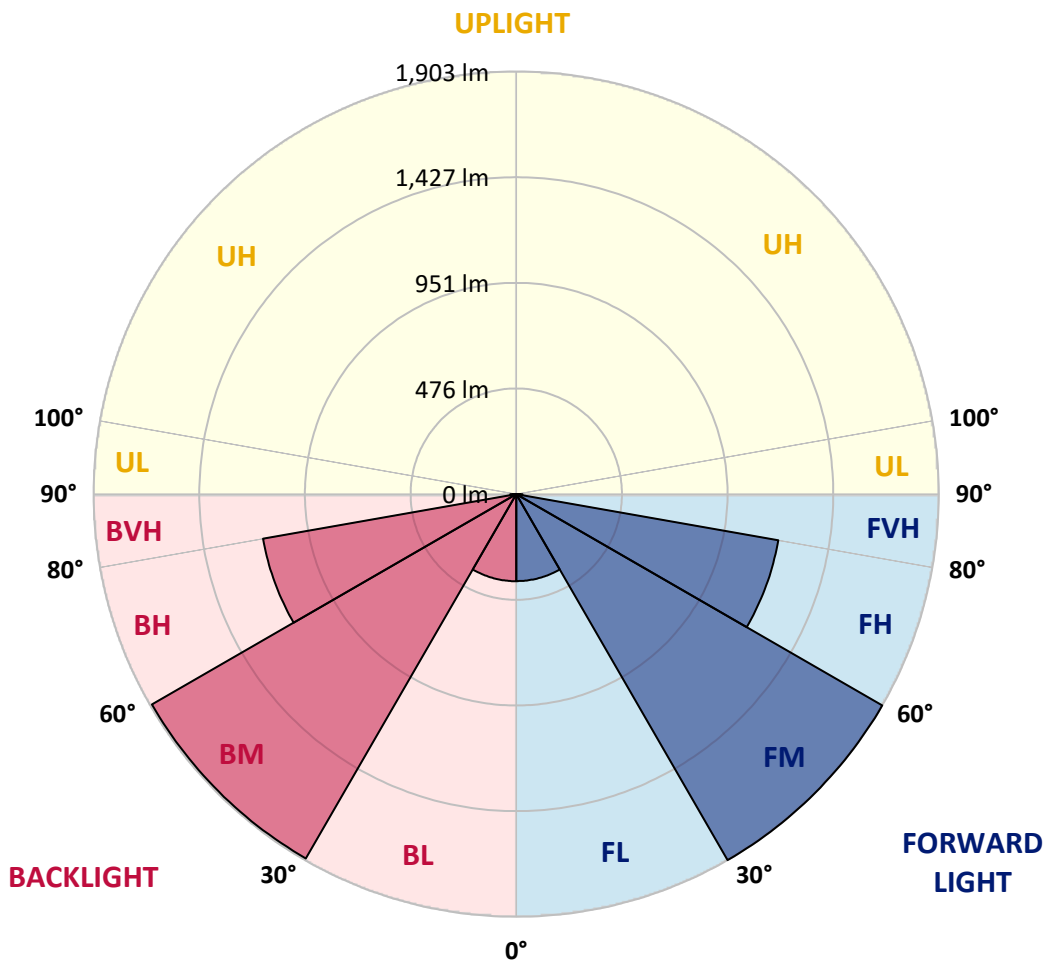
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.6	5.6			
FM (30°-60°)	1902.7	27.2			
FH (60°-80°)	1198.1	17.1			G1/1800
FVH (80°-90°)	27.7	0.4			G1/100
BL (0°-30°)	392.0	5.6	B1/500		
BM (30°-60°)	1894.2	27.1	B2/2500		
BH (60°-80°)	1157.6	16.6	B3/2500		G3/2500
BVH (80°-90°)	26.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	711.3	711.3	710.5	714.3	718.1	719.6	722.6	723.3	727.9	724.1	731.6
5°	709.0	708.3	714.3	723.3	723.3	733.1	739.2	747.5	749.7	754.2	755.7
7.5°	724.9	723.3	720.3	730.1	738.4	753.5	761.8	776.1	781.4	787.4	794.2
10°	734.6	734.6	731.6	749.0	756.5	776.8	794.9	809.2	829.6	836.4	837.1
12.5°	736.2	738.4	747.5	770.1	791.2	817.5	831.1	858.2	878.6	891.4	895.9
15°	758.8	754.2	764.0	794.9	825.8	849.2	873.3	892.9	922.3	938.8	949.4
17.5°	779.1	774.6	792.7	829.6	861.2	897.4	918.5	939.6	960.7	975.8	976.5
20°	811.5	815.3	831.1	871.0	912.5	944.1	968.2	972.0	982.5	1004.4	1000.6
22.5°	851.4	848.4	881.6	925.3	970.5	996.9	1010.4	1000.6	995.4	1018.7	1024.0
25°	891.4	900.4	930.6	971.2	1025.5	1060.9	1064.7	1037.5	1018.0	1026.2	1024.0
27.5°	952.4	953.9	985.6	1033.8	1088.8	1119.7	1117.4	1079.0	1041.3	1042.1	1043.6
30°	1030.8	1023.2	1057.9	1101.6	1155.8	1183.7	1187.5	1132.5	1082.0	1066.9	1070.7
32.5°	1106.1	1115.2	1145.3	1195.0	1235.0	1250.8	1242.5	1193.5	1128.0	1107.6	1109.9
35°	1202.6	1201.1	1242.5	1284.7	1314.8	1317.8	1311.1	1239.5	1177.7	1151.3	1140.8
37.5°	1305.8	1319.3	1346.5	1381.1	1412.8	1414.3	1377.4	1320.1	1244.0	1200.3	1213.1
40°	1421.1	1436.1	1455.7	1506.2	1529.6	1505.5	1467.8	1390.2	1311.1	1272.6	1278.7
42.5°	1522.8	1529.6	1569.5	1629.0	1640.3	1629.8	1574.0	1479.8	1387.9	1345.7	1348.7
45°	1616.2	1625.3	1677.3	1730.8	1757.1	1739.0	1674.2	1584.6	1477.6	1441.4	1427.1
47.5°	1702.1	1720.2	1770.7	1825.7	1866.4	1867.9	1788.0	1679.5	1566.5	1519.0	1518.3
50°	1760.1	1786.5	1836.2	1898.8	1958.3	1981.7	1901.8	1785.0	1663.7	1613.2	1607.9
52.5°	1791.8	1818.9	1868.6	1965.8	2032.1	2068.3	2030.6	1883.7	1777.5	1724.7	1716.4
55°	1753.4	1771.4	1852.8	1989.2	2091.7	2151.2	2126.3	2020.1	1890.5	1847.5	1855.1
57.5°	1589.8	1627.5	1727.7	1898.0	2090.2	2236.3	2234.1	2148.9	2020.8	1980.2	1981.7
60°	1308.8	1340.4	1464.0	1702.1	2005.8	2271.0	2350.9	2274.0	2167.0	2119.5	2118.0
62.5°	923.8	963.7	1106.9	1366.8	1757.1	2222.8	2485.0	2431.5	2310.2	2275.5	2288.3
65°	516.9	541.0	673.6	908.7	1338.9	1957.5	2509.1	2595.0	2455.6	2402.9	2405.1
67.5°	276.5	285.6	347.4	477.0	819.0	1509.2	2265.7	2689.2	2613.1	2521.9	2507.6
70°	189.9	192.9	208.7	244.1	387.3	902.7	1708.9	2521.2	2731.4	2607.1	2631.2
72.5°	160.5	159.0	162.8	166.5	202.7	403.9	1002.9	1940.2	2578.4	2531.7	2522.7
75°	139.4	138.6	140.1	136.4	140.9	177.8	443.8	1209.3	1887.5	2106.7	2140.6
77.5°	115.3	116.0	116.8	113.0	111.5	117.5	178.6	531.2	929.0	1025.5	1106.1
80°	87.4	88.9	94.9	91.2	85.1	85.9	105.5	177.8	266.7	241.9	249.4
82.5°	59.5	60.3	73.1	68.6	64.0	58.0	67.8	91.9	104.0	79.1	69.3
85°	42.2	41.4	47.5	43.7	40.7	29.4	40.7	52.0	62.5	39.2	35.4
87.5°	9.8	9.8	19.6	15.8	15.1	12.1	15.8	20.3	27.1	17.3	15.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8
2.5°	729.4	722.6	722.6	721.1	715.1	713.5	708.3	709.8	706.0	702.2
5°	755.0	745.9	745.9	733.1	721.1	719.6	713.5	713.5	707.5	709.0
7.5°	790.4	782.1	768.6	757.3	740.7	733.9	722.6	721.1	719.6	716.6
10°	832.6	822.0	808.5	785.1	771.6	758.8	747.5	731.6	727.9	728.6
12.5°	889.9	873.3	843.9	823.6	806.2	789.7	773.1	749.7	744.4	746.7
15°	930.6	909.5	880.1	872.5	849.2	828.8	801.7	775.3	766.3	764.0
17.5°	963.7	946.4	929.0	917.7	898.9	874.0	836.4	806.2	785.9	783.6
20°	990.8	968.2	964.5	971.2	947.9	931.3	885.3	848.4	821.3	810.0
22.5°	1007.4	993.1	1003.6	1009.7	1008.2	980.3	932.8	889.9	856.0	845.4
25°	1025.5	1008.9	1046.6	1066.9	1072.2	1026.2	989.3	932.8	899.7	892.9
27.5°	1034.5	1040.6	1084.3	1127.2	1123.4	1088.0	1038.3	987.8	961.4	949.4
30°	1060.9	1070.7	1137.0	1185.2	1186.0	1151.3	1113.6	1056.4	1027.0	1021.7
32.5°	1108.4	1120.4	1191.3	1242.5	1251.5	1225.2	1187.5	1152.1	1121.9	1109.9
35°	1144.5	1175.4	1255.3	1302.0	1326.1	1310.3	1289.2	1252.3	1220.6	1210.1
37.5°	1196.5	1239.5	1316.3	1379.6	1406.8	1405.2	1389.4	1349.5	1323.1	1314.1
40°	1271.1	1314.1	1384.1	1467.8	1518.3	1516.0	1507.0	1476.1	1436.9	1432.4
42.5°	1350.2	1385.7	1476.8	1572.5	1644.9	1637.3	1613.2	1577.0	1549.9	1543.9
45°	1427.1	1482.1	1566.5	1689.3	1743.6	1762.4	1733.8	1672.0	1641.1	1637.3
47.5°	1523.5	1567.2	1672.7	1782.7	1863.4	1866.4	1817.4	1760.1	1703.6	1715.7
50°	1609.4	1667.5	1774.5	1895.0	1991.5	1956.8	1894.3	1822.7	1782.0	1766.2
52.5°	1701.4	1772.2	1896.5	2019.3	2072.8	2038.2	1936.5	1856.6	1794.8	1788.0
55°	1835.5	1872.4	2035.2	2129.3	2146.7	2073.6	1923.6	1810.6	1730.8	1711.2
57.5°	1971.9	2014.8	2157.2	2238.6	2220.5	2054.0	1840.8	1666.0	1561.2	1533.3
60°	2109.8	2162.5	2282.3	2356.9	2263.5	1919.1	1606.4	1381.1	1259.1	1234.2
62.5°	2263.5	2332.0	2439.0	2465.4	2136.1	1652.4	1274.9	996.9	873.3	831.8
65°	2399.8	2469.9	2601.8	2442.8	1865.6	1232.7	824.3	569.6	478.5	445.3
67.5°	2512.1	2591.2	2656.0	2161.7	1366.1	721.8	429.5	299.9	266.0	253.9
70°	2601.0	2732.9	2430.0	1589.1	780.6	351.9	232.1	197.4	192.9	189.9
72.5°	2523.4	2506.1	1814.4	917.0	342.1	193.6	168.0	162.8	162.0	162.8
75°	2063.8	1840.8	1085.0	398.6	171.8	140.1	139.4	137.1	140.9	140.9
77.5°	1001.4	875.5	453.6	171.0	113.0	110.0	113.8	113.8	113.8	113.8
80°	232.1	256.9	162.0	104.0	82.1	82.1	90.4	91.2	87.4	85.9
82.5°	79.1	105.5	88.9	65.6	54.3	61.0	68.6	70.1	58.0	58.8
85°	39.2	61.8	48.2	37.7	27.9	37.7	44.5	46.7	39.9	38.4
87.5°	18.1	27.1	18.1	12.8	9.8	13.6	12.8	10.5	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)