

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: P477531

Luminaire Tested: **IFLD-S-SA2E-830-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477531  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

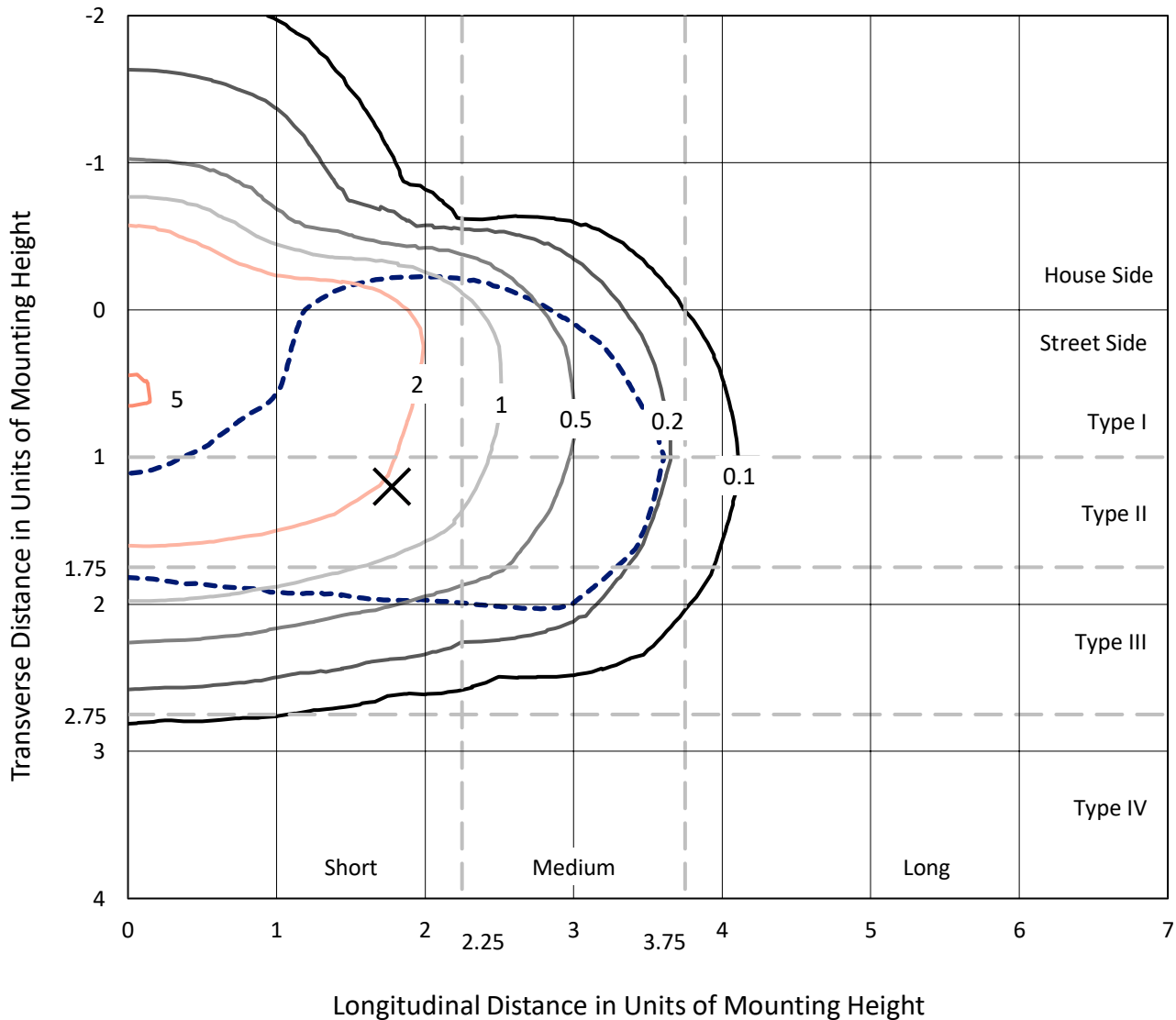
Lumens per Lamp: N/A  
Luminaire Lumens: 14648.1 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2  
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

REPORT NUMBER: P477531  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

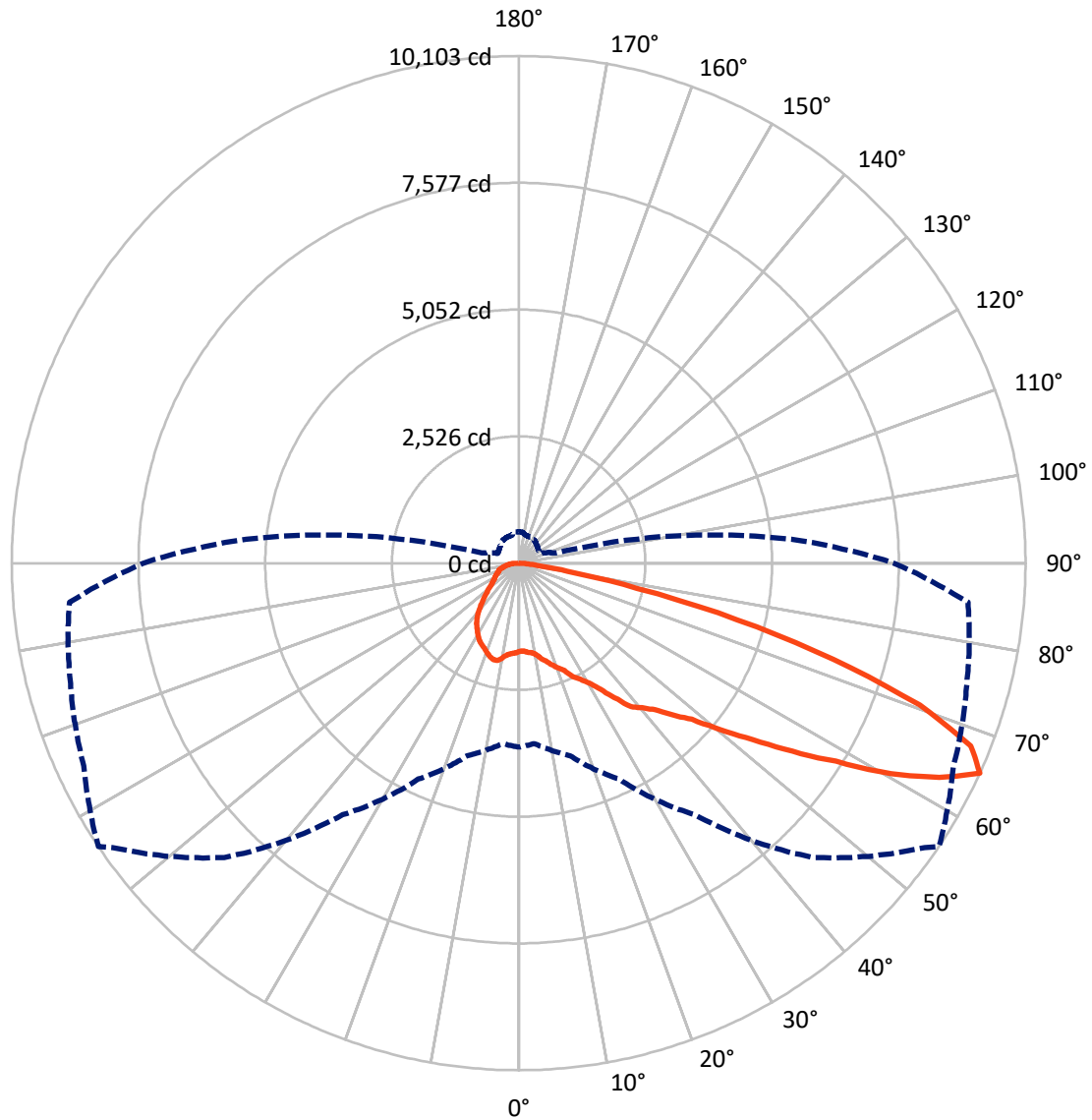
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P477531  
CATALOG NUMBER: IFLD-S-SA2E-830-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P477531  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3285.1	0.0	3285.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	11363.0	0.0	11363.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	14648.1	0.0	14648.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.2	1.2
10°-20°	565.8	3.9
20°-30°	1007.4	6.9
30°-40°	1508.5	10.3
40°-50°	2235.0	15.3
50°-60°	3443.8	23.5
60°-70°	3898.8	26.6
70°-80°	1618.1	11.0
80°-90°	196.6	1.3
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°	14648.1	100.0
0°-180°	14648.1	100.0

**Coefficient of Utilization**

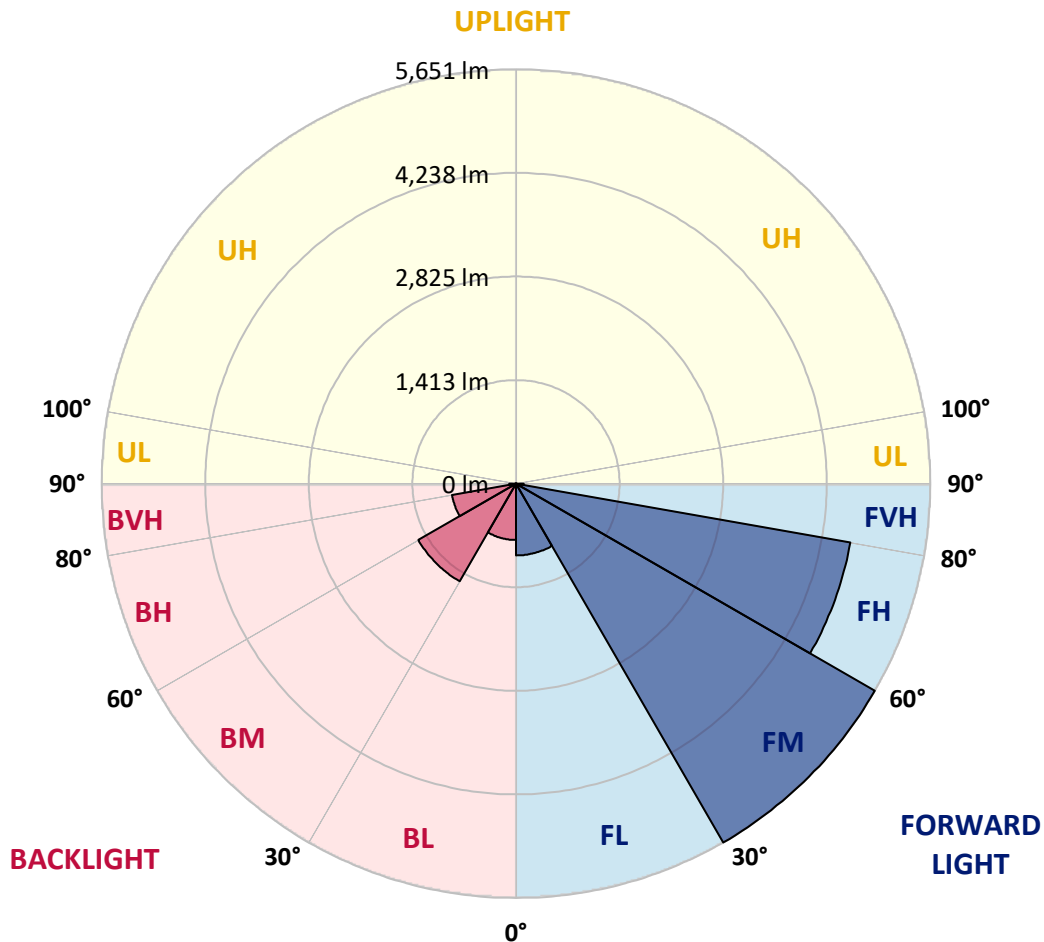


REPORT NUMBER: P477531  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.9	6.7			
FM (30°-60°)	5650.6	38.6			
FH (60°-80°)	4629.8	31.6			G2/5000
FVH (80°-90°)	103.7	0.7			G2/225
BL (0°-30°)	768.4	5.2	B2/1000		
BM (30°-60°)	1536.7	10.5	B2/2500		
BH (60°-80°)	887.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	92.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type III Short





REPORT NUMBER: P477531  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2
2.5°	1712.2	1721.4	1715.3	1733.7	1749.0	1749.0	1761.3	1752.1	1764.3	1781.2
5°	1768.9	1732.1	1752.1	1761.3	1756.7	1764.3	1752.1	1782.7	1762.8	1795.0
7.5°	1782.7	1796.5	1813.4	1798.0	1811.8	1804.2	1805.7	1801.1	1790.4	1816.4
10°	1883.9	1864.0	1902.3	1879.3	1876.2	1873.2	1867.0	1844.0	1870.1	1871.6
12.5°	2000.4	1982.0	1980.5	1962.1	1986.6	1942.1	1951.3	1939.1	1943.7	1949.8
15°	2084.7	2077.0	2112.3	2090.8	2058.6	2038.7	2060.2	2026.4	2043.3	2040.2
17.5°	2251.8	2250.2	2224.2	2188.9	2170.5	2141.4	2136.8	2123.0	2135.3	2129.1
20°	2368.3	2385.1	2389.7	2348.3	2277.8	2245.6	2238.0	2227.2	2241.0	2236.4
22.5°	2546.1	2520.0	2540.0	2467.9	2441.8	2365.2	2337.6	2322.3	2388.2	2371.3
25°	2659.5	2687.1	2667.2	2642.7	2584.4	2489.4	2469.4	2503.2	2529.2	2510.8
27.5°	2915.5	2887.9	2869.5	2795.9	2757.6	2658.0	2635.0	2622.7	2628.9	2639.6
30°	3110.2	3125.5	3084.1	3032.0	2935.4	2834.3	2780.6	2769.9	2748.4	2730.0
32.5°	3387.6	3364.6	3340.1	3306.4	3223.6	3090.2	3038.1	2998.3	2933.9	2848.1
35°	3521.0	3586.9	3568.5	3478.1	3415.2	3364.6	3349.3	3288.0	3234.3	3099.4
37.5°	3743.2	3770.8	3744.8	3715.7	3686.5	3632.9	3614.5	3631.3	3525.6	3303.3
40°	3887.3	3945.6	3999.2	3918.0	3911.9	3922.6	3809.2	3789.2	3571.6	3455.1
42.5°	4181.6	4206.2	4216.9	4213.8	4249.1	4249.1	4033.0	3990.0	3835.2	3740.2
45°	4571.0	4590.9	4629.2	4656.8	4617.0	4636.9	4328.8	4311.9	4174.0	4155.6
47.5°	4908.2	4955.7	5041.6	5122.8	5174.9	5107.5	4770.3	4650.7	4615.4	4725.8
50°	5202.5	5145.8	5346.6	5429.4	5657.8	5769.7	5257.7	5210.2	5153.5	5365.0
52.5°	5231.7	5308.3	5591.9	5757.4	6228.0	6435.0	5855.5	5835.6	5766.6	6010.3
55°	5440.1	5430.9	5716.0	6074.7	6634.2	6982.2	6634.2	6622.0	6471.7	6703.2
57.5°	5404.9	5498.4	5723.7	6224.9	7000.6	7569.3	7537.1	7452.8	7242.8	7431.3
60°	5285.3	5309.8	5584.2	6220.3	7213.6	8171.7	8512.0	8528.8	8099.6	8249.9
62.5°	4607.8	4664.5	5012.5	5731.4	7061.9	8587.1	9463.9	9404.1	9060.7	8889.1
65°	3665.1	3608.4	3970.1	4747.3	6117.6	8292.8	9880.8	10103.1	9563.5	9249.3
67.5°	2247.2	2233.4	2581.3	3266.5	4577.1	7057.3	9548.2	9721.4	9424.0	9172.6
70°	1157.3	1122.1	1339.7	1822.6	2877.2	5178.0	8309.6	8479.8	8763.4	8226.9
72.5°	539.6	531.9	648.4	896.7	1465.4	3044.3	6435.0	6557.6	7155.4	6936.2
75°	317.3	321.9	387.8	469.1	714.3	1434.8	4270.6	4508.1	5156.5	4998.7
77.5°	237.6	237.6	275.9	326.5	416.9	554.9	2107.7	2421.9	3015.1	2711.6
80°	174.7	177.8	211.5	245.3	289.7	286.6	836.9	981.0	1382.6	1181.8
82.5°	136.4	141.0	164.0	182.4	203.9	173.2	343.4	369.4	568.7	452.2
85°	95.0	98.1	128.8	124.2	124.2	96.6	142.6	150.2	225.3	214.6
87.5°	23.0	26.1	62.8	69.0	52.1	29.1	44.5	50.6	81.2	93.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477531  
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1758.2	0°	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2	1758.2
1788.8	2.5°	1765.9	1772.0	1798.0	1784.3	1791.9	1759.7	1785.8	1764.3	1782.7	1773.5
1802.6	5°	1814.9	1801.1	1816.4	1805.7	1805.7	1818.0	1836.4	1822.6	1850.2	1837.9
1813.4	7.5°	1834.8	1836.4	1845.6	1847.1	1839.4	1877.8	1879.3	1874.7	1900.7	1894.6
1887.0	10°	1883.9	1885.4	1902.3	1911.5	1903.8	1917.6	1902.3	1890.0	1888.5	1882.4
1945.2	12.5°	1962.1	1977.4	1974.3	1982.0	1983.5	1925.3	1890.0	1830.2	1822.6	1830.2
2031.0	15°	2034.1	2028.0	2031.0	2046.4	1982.0	1888.5	1825.6	1775.1	1778.1	1779.7
2142.9	17.5°	2119.9	2124.5	2129.1	2058.6	1940.6	1830.2	1775.1	1775.1	1759.7	1765.9
2221.1	20°	2218.0	2199.7	2159.8	2060.2	1868.6	1762.8	1745.9	1745.9	1727.5	1715.3
2305.4	22.5°	2294.7	2257.9	2198.1	2012.6	1804.2	1736.7	1695.3	1666.2	1644.8	1620.2
2398.9	25°	2343.7	2323.8	2207.3	1963.6	1756.7	1667.8	1606.4	1562.0	1534.4	1502.2
2472.5	27.5°	2418.9	2380.5	2233.4	1906.9	1704.5	1598.8	1503.7	1434.8	1382.6	1348.9
2584.4	30°	2520.0	2464.8	2215.0	1825.6	1624.8	1479.2	1367.3	1278.4	1218.6	1191.0
2690.2	32.5°	2602.8	2530.8	2199.7	1752.1	1535.9	1358.1	1209.4	1119.0	1085.3	1050.0
2868.0	35°	2760.7	2618.1	2188.9	1710.7	1456.2	1237.0	1080.7	1002.5	959.6	907.5
2973.8	37.5°	2881.8	2769.9	2162.9	1624.8	1353.5	1119.0	982.6	912.1	847.7	792.5
3219.0	40°	3071.9	2981.4	2164.4	1503.7	1232.4	1017.8	905.9	832.3	751.1	703.6
3582.3	42.5°	3429.0	3189.9	2173.6	1407.2	1096.0	935.0	836.9	749.6	668.3	628.5
3996.2	45°	3867.4	3476.5	2116.9	1319.8	956.5	856.9	754.2	666.8	614.7	585.6
4558.7	47.5°	4371.7	3757.0	2040.2	1155.8	840.0	774.1	677.5	626.9	588.6	571.8
5283.8	50°	4935.8	4158.7	2018.8	1005.6	749.6	703.6	640.7	602.4	576.4	556.4
6100.8	52.5°	5662.4	4626.2	1975.9	850.7	671.4	646.9	626.9	600.9	577.9	561.0
6862.6	55°	6356.8	5144.3	1929.9	723.5	616.2	619.3	630.0	607.0	587.1	561.0
7716.4	57.5°	7138.5	5673.1	1759.7	630.0	574.8	605.5	626.9	600.9	581.0	561.0
8590.2	60°	7621.4	5970.5	1427.1	548.8	538.0	579.4	608.5	581.0	559.5	567.2
8991.8	62.5°	7817.6	5814.1	1076.1	498.2	512.0	544.2	579.4	568.7	553.4	582.5
8987.2	65°	7483.4	5453.9	769.5	455.3	476.7	508.9	553.4	565.6	570.2	626.9
8254.5	67.5°	6658.7	4748.8	565.6	420.0	439.9	487.4	571.8	591.7	588.6	659.1
6927.0	70°	5328.2	3714.1	441.5	390.9	426.1	504.3	597.8	597.8	576.4	659.1
5283.8	72.5°	3876.6	2618.1	380.1	357.2	390.9	462.9	594.8	593.2	565.6	602.4
3364.6	75°	2346.8	1523.7	335.7	323.4	335.7	397.0	568.7	559.5	521.2	518.1
1618.7	77.5°	1169.6	766.4	274.4	286.6	292.8	332.6	499.7	513.5	461.4	449.1
639.2	80°	493.6	334.2	228.4	246.8	246.8	280.5	415.4	424.6	383.2	360.2
252.9	82.5°	225.3	191.6	194.7	214.6	200.8	217.7	329.6	340.3	311.2	272.8
107.3	85°	95.0	108.8	148.7	168.6	148.7	141.0	226.9	239.1	202.3	168.6
46.0	87.5°	42.9	59.8	93.5	122.6	75.1	65.9	121.1	125.7	101.2	75.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O





180°
1758.2
1756.7
1821.0
1885.4
1882.4
1833.3
1801.1
1767.4
1696.9
1606.4
1508.3
1364.2
1206.4
1048.5
902.9
794.0
708.2
631.5
591.7
568.7
559.5
559.5
559.5
559.5
561.0
574.8
626.9
663.7
645.3
581.0
512.0
441.5
352.6
266.7
170.1
70.5
0.0

F REPORT)