

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: P476477

Luminaire Tested: **IFLD-S-SA2D-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476477
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

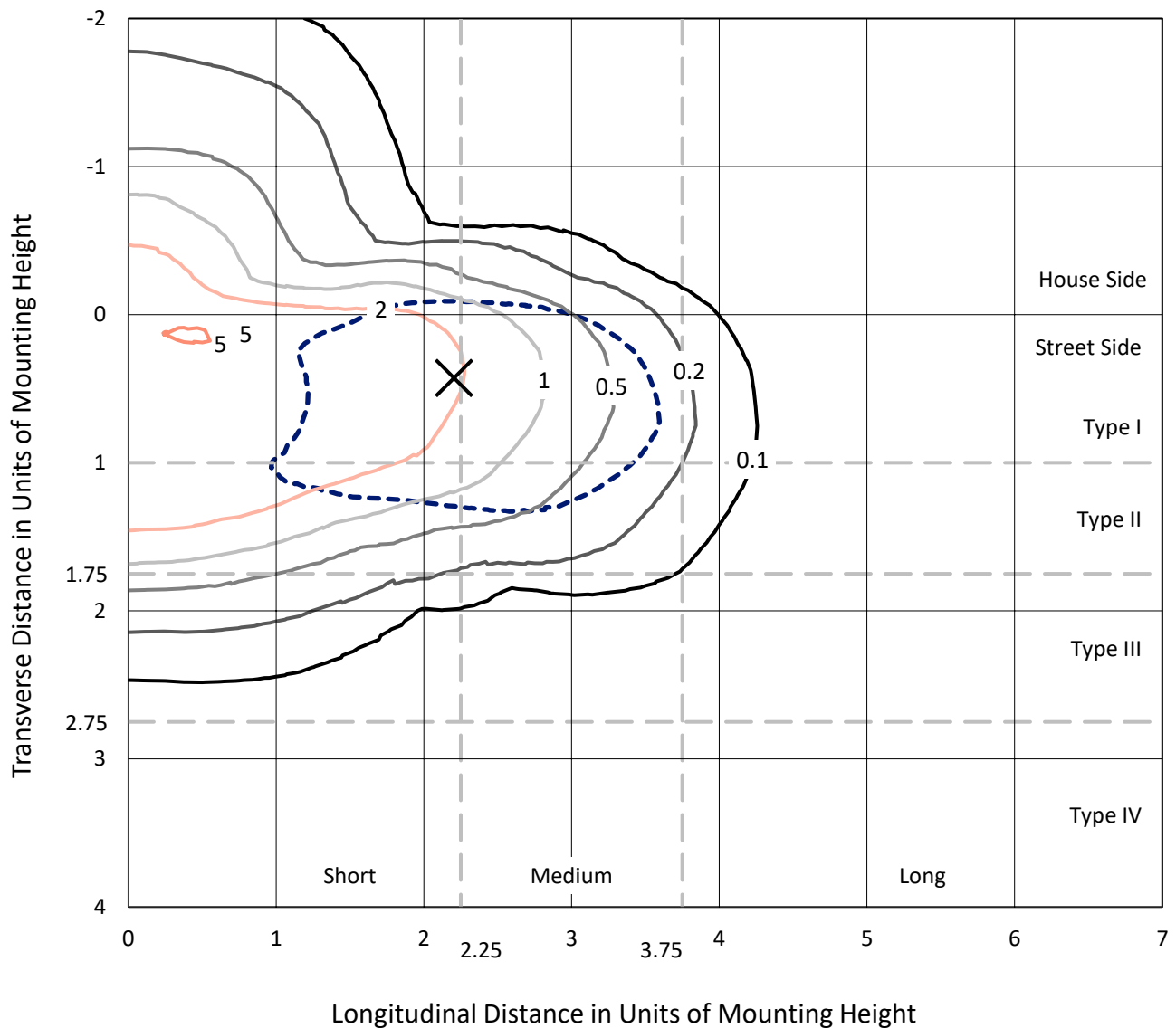
Lumens per Lamp: N/A
Luminaire Lumens: 13063.5 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

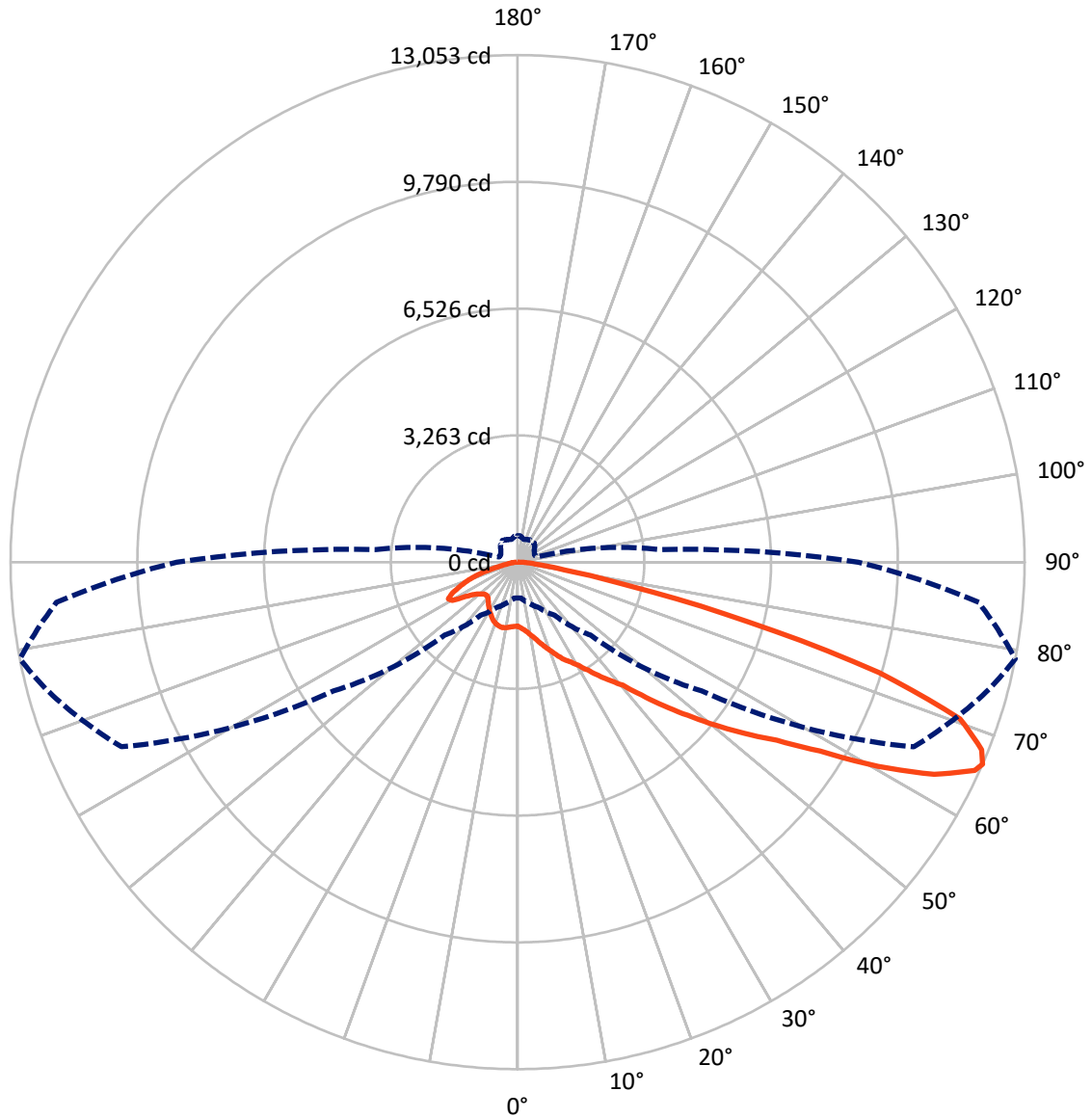
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	2638.0	0.0	2638.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	10425.6	0.0	10425.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	13063.5	0.0	13063.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	1.2
10°-20°	500.9	3.8
20°-30°	859.8	6.6
30°-40°	1328.2	10.2
40°-50°	2127.4	16.3
50°-60°	3176.3	24.3
60°-70°	3263.7	25.0
70°-80°	1446.7	11.1
80°-90°	198.5	1.5
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°	13063.5	100.0
0°-180°	13063.5	100.0



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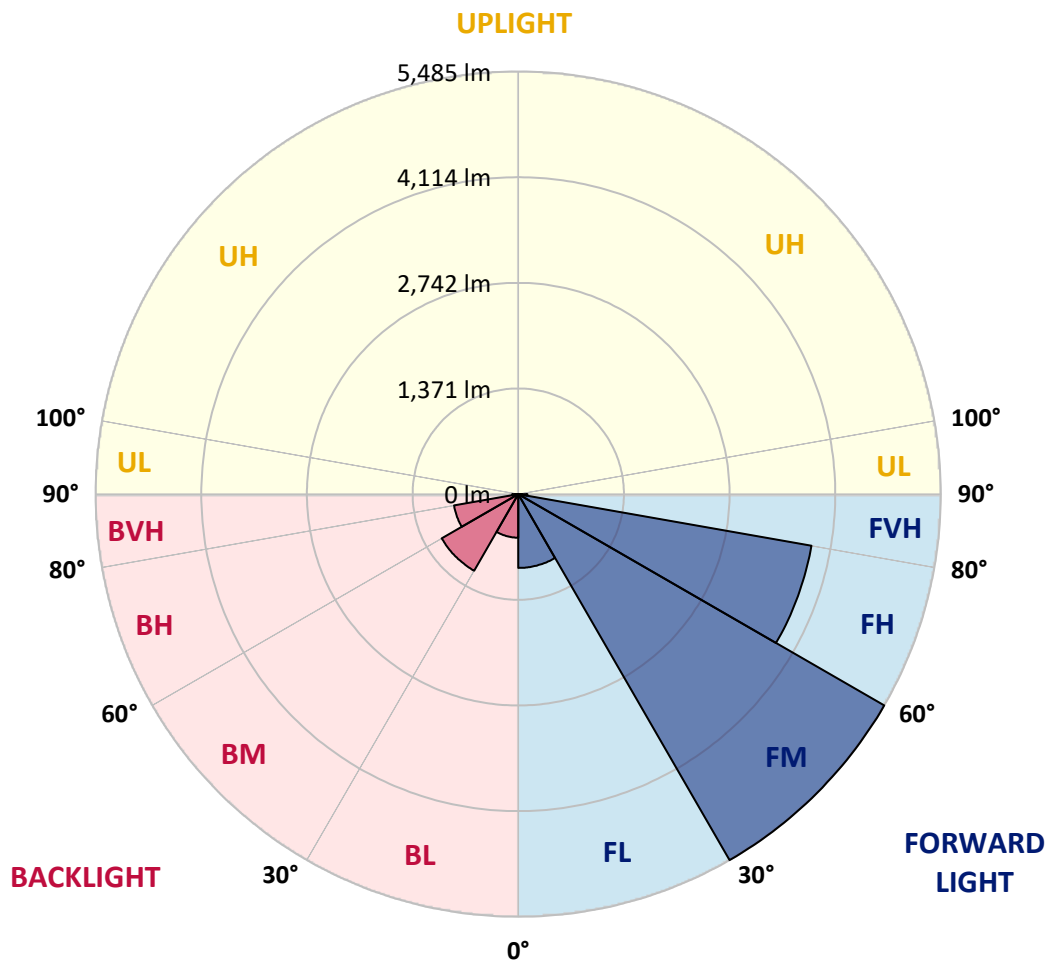
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.6	7.3			
FM (30°-60°)	5484.9	42.0			
FH (60°-80°)	3863.9	29.6			G2/5000
FVH (80°-90°)	119.1	0.9			G2/225
BL (0°-30°)	565.2	4.3	B2/1000		
BM (30°-60°)	1146.9	8.8	B2/2500		
BH (60°-80°)	846.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	79.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1754.5	1755.9	1755.9	1750.1	1751.6	1755.9	1740.1	1705.6	1705.6	1699.9	1689.8
5°	1862.2	1855.0	1845.0	1846.4	1840.7	1840.7	1823.4	1790.4	1761.6	1750.1	1720.0
7.5°	1876.6	1883.8	1882.3	1899.6	1908.2	1908.2	1916.8	1889.5	1846.4	1819.1	1788.9
10°	1905.3	1886.7	1885.2	1925.4	1938.4	1968.6	2003.0	1988.7	1952.8	1914.0	1873.7
12.5°	1922.6	1934.1	1934.1	1954.2	1984.4	2028.9	2089.3	2116.6	2060.5	2020.3	1958.5
15°	1948.4	1932.6	1978.6	1995.9	2053.3	2084.9	2171.2	2241.6	2204.2	2155.4	2057.6
17.5°	1959.9	1949.9	1975.7	2007.4	2105.1	2152.5	2257.4	2355.1	2323.5	2291.9	2191.3
20°	2018.8	2017.4	2028.9	2054.8	2125.2	2218.6	2349.3	2484.4	2495.9	2438.4	2301.9
22.5°	2162.5	2143.9	2143.9	2133.8	2164.0	2260.2	2437.0	2623.8	2675.5	2608.0	2426.9
25°	2294.7	2320.6	2304.8	2258.8	2247.3	2297.6	2500.2	2771.8	2840.8	2777.5	2596.5
27.5°	2464.3	2472.9	2500.2	2438.4	2359.4	2375.2	2569.2	2855.1	2997.4	2912.6	2692.8
30°	2708.6	2692.8	2687.0	2618.0	2514.6	2493.0	2648.2	2977.3	3202.9	3083.6	2806.3
32.5°	2873.8	2912.6	2911.2	2816.3	2691.3	2643.9	2745.9	3092.2	3422.7	3312.1	3016.1
35°	3201.4	3241.7	3210.0	3070.7	2924.1	2829.3	2886.7	3241.7	3674.2	3587.9	3194.2
37.5°	3619.6	3714.4	3646.9	3389.7	3182.7	3079.3	3082.2	3404.0	3931.4	3861.0	3385.3
40°	3908.4	4036.3	3942.9	3701.5	3481.6	3383.9	3345.1	3596.6	4238.9	4164.1	3684.2
42.5°	4266.2	4372.5	4323.6	4085.1	3827.9	3744.6	3667.0	3918.4	4708.7	4674.2	4067.9
45°	4657.0	4707.3	4691.5	4540.6	4254.7	4225.9	4054.9	4342.3	5261.9	5276.3	4547.8
47.5°	5020.5	5047.8	5078.0	4968.8	4790.6	4815.1	4501.8	4796.4	5799.3	5894.2	5082.3
50°	5113.9	5207.3	5277.7	5351.0	5389.8	5555.1	4994.7	5353.9	6417.2	6601.1	5677.2
52.5°	5019.1	5011.9	5226.0	5455.9	5843.9	6190.2	5665.7	6046.5	6963.2	7326.8	6221.8
55°	4588.0	4573.7	4918.5	5223.1	5980.4	6543.7	6624.1	6969.0	7622.8	8095.5	6958.9
57.5°	3833.7	3744.6	4121.0	4621.1	5684.4	6582.4	7586.8	8338.3	8637.2	9176.1	8084.0
60°	2576.4	2539.0	2899.7	3496.0	4615.3	6032.1	8163.0	10052.6	10066.9	10673.3	9829.8
62.5°	1586.3	1593.5	1824.9	2271.7	3231.6	4782.0	7914.5	11421.9	11424.8	12032.6	11266.8
65°	1037.4	1041.8	1228.6	1475.7	2018.8	3243.1	6545.1	11529.7	12368.9	12933.6	11924.9
66°	923.9	925.4	1086.3	1287.5	1672.6	2654.0	5780.7	11249.5	12581.5	13052.8	11916.2
67.5°	778.8	797.5	926.8	1082.0	1304.7	1906.8	4586.6	10439.1	12472.3	12886.1	11646.1
70°	609.2	619.3	721.3	879.4	978.5	1103.5	2725.8	8509.3	11416.2	12087.2	10663.3
72.5°	488.5	497.2	574.8	714.1	794.6	727.1	1484.3	6174.4	9018.0	9733.6	8387.2
75°	412.4	413.8	451.2	561.8	653.8	546.0	790.3	3963.0	5786.4	6119.8	5138.4
77.5°	333.4	339.1	365.0	428.2	525.9	429.6	471.3	2220.0	2905.4	2929.8	2375.2
80°	271.6	274.4	290.3	311.8	400.9	317.6	319.0	1083.4	1245.8	1217.1	965.6
82.5°	214.1	217.0	235.7	231.3	294.6	227.0	198.3	521.6	573.3	561.8	444.0
85°	120.7	120.7	185.4	185.4	186.8	143.7	120.7	245.7	303.2	283.1	208.4
87.5°	38.8	40.2	56.0	58.9	93.4	64.7	58.9	92.0	143.7	126.4	74.7
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°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1684.0	1661.1	1651.0	1618.0	1609.3	1587.8	1577.7	1564.8	1560.5	1541.8	1559.0
5°	1697.0	1689.8	1649.6	1607.9	1576.3	1561.9	1540.4	1511.6	1508.7	1482.9	1480.0
7.5°	1751.6	1727.2	1656.7	1612.2	1549.0	1513.1	1465.6	1451.3	1432.6	1424.0	1442.6
10°	1836.4	1774.6	1669.7	1557.6	1480.0	1436.9	1402.4	1392.4	1393.8	1388.0	1379.4
12.5°	1896.7	1837.8	1648.1	1511.6	1411.0	1369.4	1366.5	1376.6	1392.4	1385.2	1395.2
15°	1982.9	1872.3	1632.3	1435.5	1355.0	1343.5	1342.1	1372.2	1370.8	1370.8	1369.4
17.5°	2063.4	1906.8	1574.8	1369.4	1296.1	1304.7	1314.8	1313.3	1327.7	1333.4	1343.5
20°	2165.4	1947.0	1494.4	1303.3	1251.5	1248.7	1247.2	1248.7	1263.0	1271.7	1264.5
22.5°	2254.5	1955.6	1426.8	1240.0	1198.4	1186.9	1168.2	1186.9	1179.7	1182.6	1191.2
25°	2332.1	1957.1	1330.6	1192.6	1145.2	1119.3	1105.0	1103.5	1090.6	1089.2	1089.2
27.5°	2396.8	1908.2	1245.8	1126.5	1082.0	1057.6	1056.1	1040.3	1007.3	985.7	988.6
30°	2447.0	1870.8	1186.9	1069.1	1025.9	1021.6	1008.7	972.8	929.7	902.4	902.4
32.5°	2536.1	1796.1	1106.4	1010.1	988.6	982.8	952.7	921.1	880.8	855.0	850.6
35°	2602.2	1727.2	1053.2	959.9	949.8	938.3	912.4	877.9	866.5	860.7	865.0
37.5°	2676.9	1649.6	988.6	916.7	926.8	905.2	875.1	859.3	899.5	889.4	893.8
40°	2796.2	1595.0	925.4	890.9	900.9	876.5	837.7	832.0	882.3	846.3	837.7
42.5°	3014.6	1593.5	886.6	852.1	859.3	840.6	806.1	803.2	823.3	780.2	767.3
45°	3286.2	1643.8	857.8	823.3	817.6	814.7	803.2	790.3	773.1	717.0	702.6
47.5°	3610.9	1725.7	852.1	780.2	787.4	811.8	797.5	764.4	719.9	684.0	676.8
50°	4004.6	1895.3	837.7	748.6	761.6	800.4	788.9	742.9	702.6	679.7	675.3
52.5°	4440.0	2109.4	819.0	699.8	728.5	790.3	796.0	752.9	694.0	673.9	671.0
55°	4953.0	2425.5	797.5	646.6	689.7	780.2	796.0	724.2	682.5	682.5	679.7
57.5°	5966.0	2994.5	752.9	597.8	655.2	761.6	773.1	725.6	684.0	684.0	678.2
60°	7451.8	3882.5	668.2	560.4	622.2	735.7	755.8	704.1	668.2	676.8	675.3
62.5°	8614.2	4152.6	596.3	524.5	589.1	688.3	732.8	681.1	649.5	681.1	684.0
65°	8862.8	3879.6	523.0	485.7	543.1	642.3	699.8	648.0	622.2	684.0	686.8
66°	8773.7	3667.0	497.2	474.2	523.0	619.3	679.7	636.5	607.8	681.1	682.5
67.5°	8377.1	3348.0	468.4	449.8	495.7	586.3	656.7	620.7	584.8	672.5	659.5
70°	7515.0	2839.3	419.6	406.6	456.9	531.7	603.5	580.5	548.9	619.3	596.3
72.5°	5787.8	2268.9	367.8	369.3	412.4	475.6	550.3	534.5	507.2	543.1	528.8
75°	3524.7	1449.8	320.4	323.3	359.2	422.4	500.0	488.5	455.5	475.6	468.4
77.5°	1561.9	718.5	270.1	275.9	304.6	372.2	435.4	416.7	382.2	386.5	383.7
80°	606.4	340.5	219.8	227.0	245.7	297.4	360.7	343.4	313.2	307.5	304.6
82.5°	291.7	189.7	169.6	172.4	179.6	237.1	310.4	288.8	248.6	222.7	222.7
85°	146.6	117.8	119.3	109.2	119.3	160.9	209.8	175.3	145.1	129.3	132.2
87.5°	58.9	58.9	58.9	50.3	53.2	76.2	97.7	66.1	60.3	35.9	35.9
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)