

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: P476553

Luminaire Tested: **IFLD-S-SA2B-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476553
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

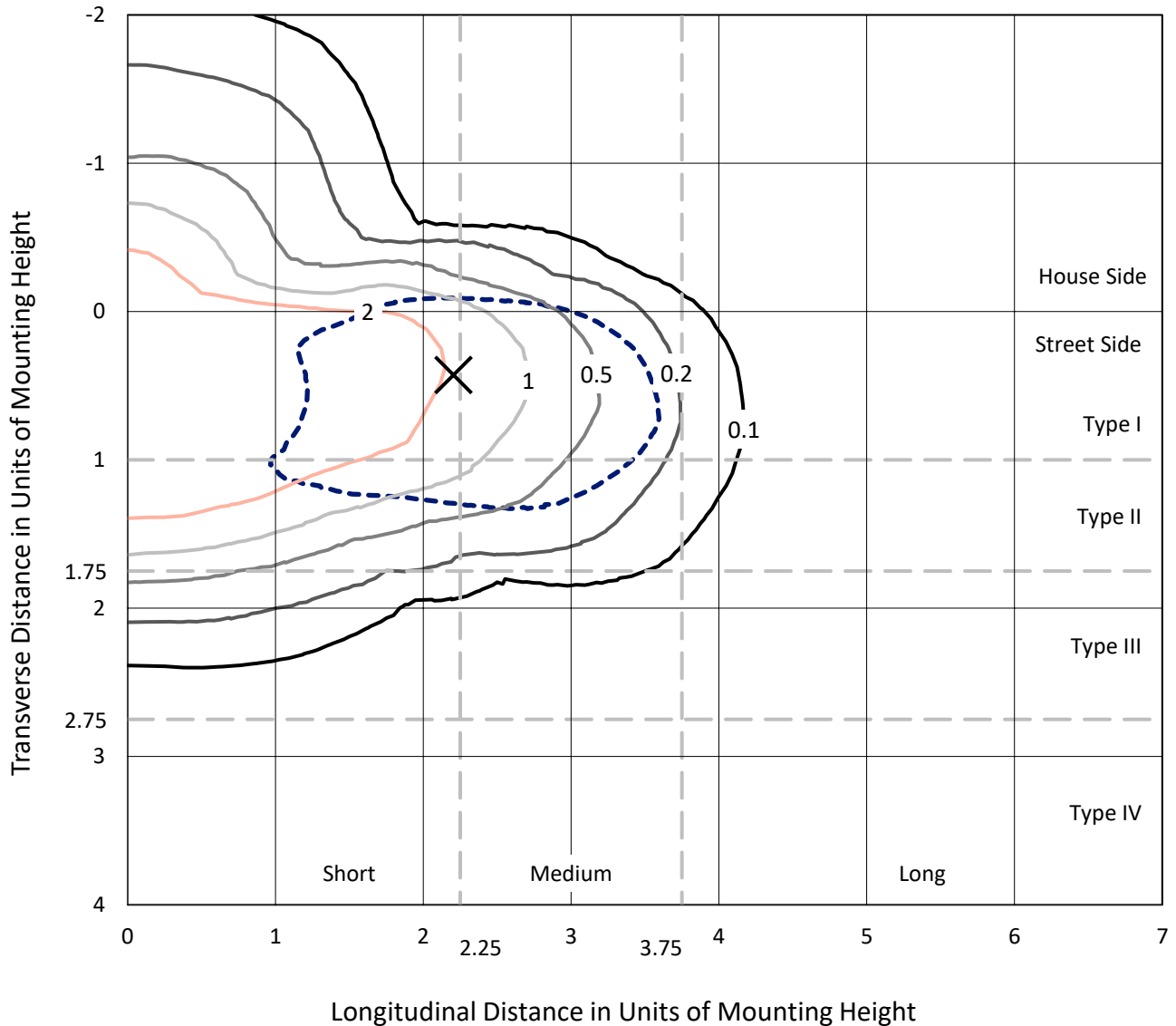
Lumens per Lamp: N/A
Luminaire Lumens: 11247.8 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P476553
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

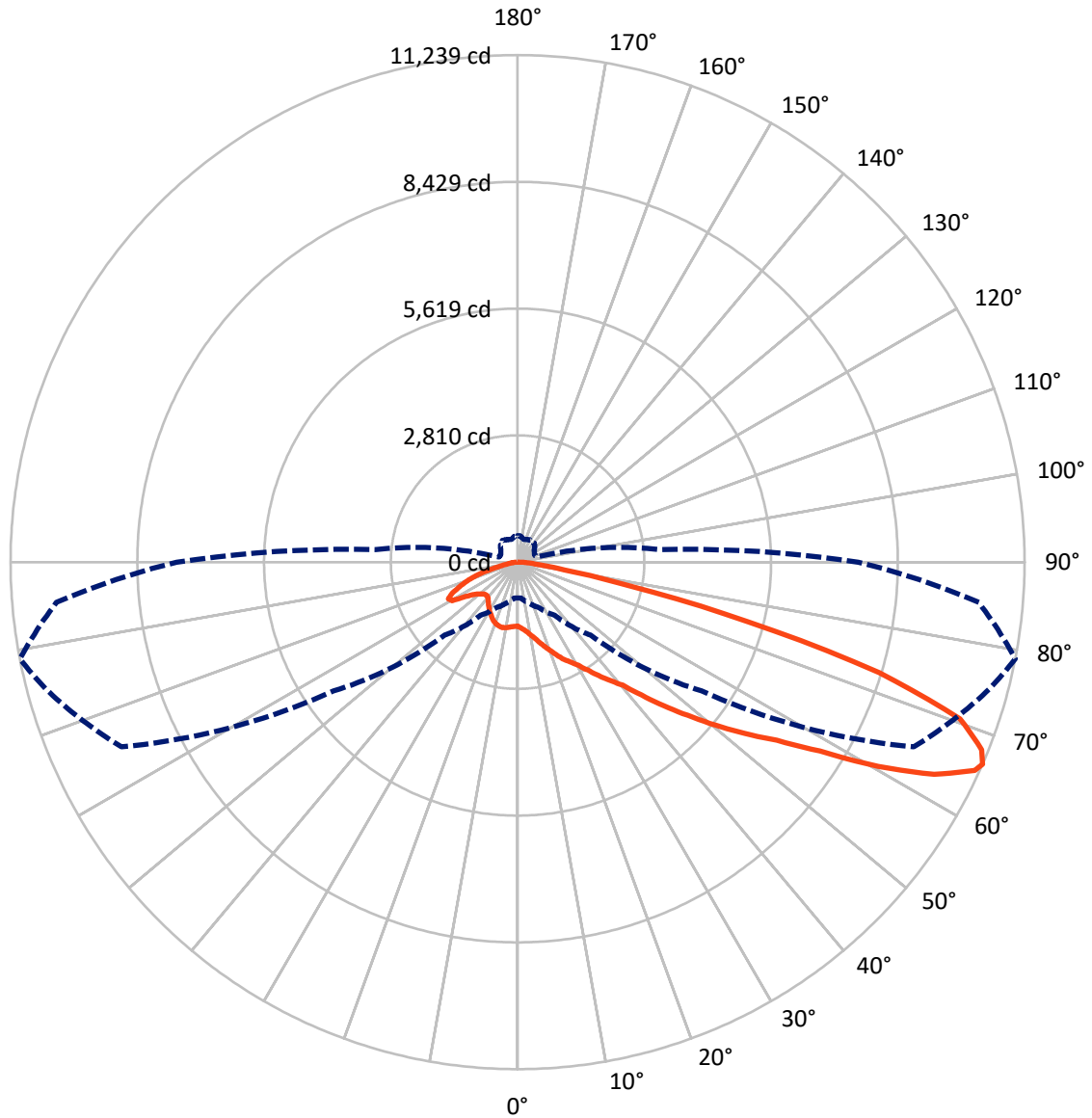
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

REPORT NUMBER: P476553
CATALOG NUMBER: IFLD-S-SA2B-735-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476553

CATALOG NUMBER: IFLD-S-SA2B-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2271.3	0.0	2271.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	8976.4	0.0	8976.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	11247.8	0.0	11247.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.2
10°-20°	431.2	3.8
20°-30°	740.3	6.6
30°-40°	1143.5	10.2
40°-50°	1831.7	16.3
50°-60°	2734.8	24.3
60°-70°	2810.0	25.0
70°-80°	1245.6	11.1
80°-90°	170.9	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°	11247.8	100.0
0°-180°	11247.8	100.0



REPORT NUMBER: P476553

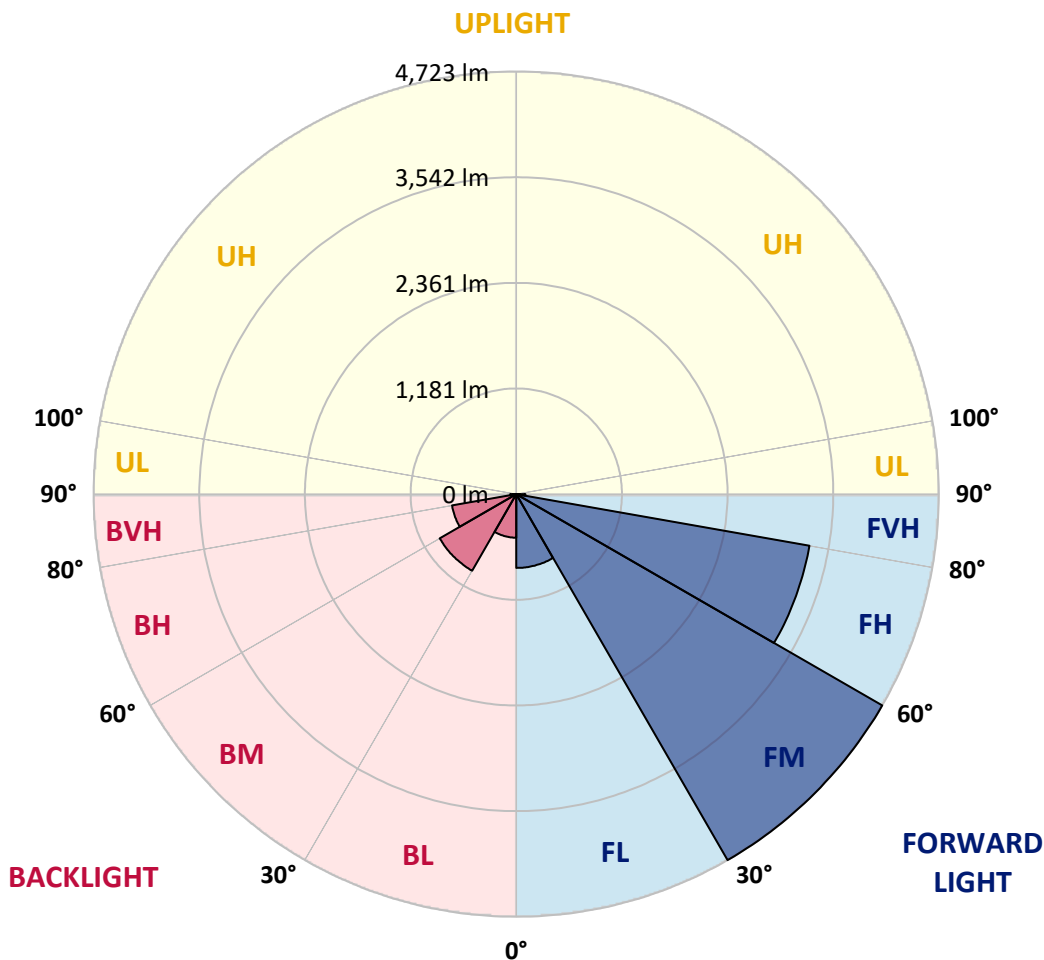
CATALOG NUMBER: IFLD-S-SA2B-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.5	7.3			
FM (30°-60°)	4722.6	42.0			
FH (60°-80°)	3326.8	29.6			G2/5000
FVH (80°-90°)	102.5	0.9			G2/225
BL (0°-30°)	486.6	4.3	B1/500		
BM (30°-60°)	987.5	8.8	B1/1000		
BH (60°-80°)	728.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	68.4	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





REPORT NUMBER: P476553

CATALOG NUMBER: IFLD-S-SA2B-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3
2.5°	1510.6	1511.8	1511.8	1506.9	1508.1	1511.8	1498.2	1468.5	1468.5	1463.6	1454.9
5°	1603.4	1597.2	1588.5	1589.8	1584.8	1584.8	1570.0	1541.5	1516.8	1506.9	1480.9
7.5°	1615.8	1621.9	1620.7	1635.5	1643.0	1643.0	1650.4	1626.9	1589.8	1566.3	1540.3
10°	1640.5	1624.4	1623.2	1657.8	1669.0	1694.9	1724.6	1712.3	1681.3	1647.9	1613.3
12.5°	1655.3	1665.2	1665.2	1682.6	1708.5	1746.9	1798.9	1822.4	1774.1	1739.5	1686.3
15°	1677.6	1664.0	1703.6	1718.4	1767.9	1795.1	1869.4	1930.0	1897.8	1855.8	1771.6
17.5°	1687.5	1678.8	1701.1	1728.3	1812.5	1853.3	1943.6	2027.7	2000.5	1973.3	1886.7
20°	1738.2	1737.0	1746.9	1769.2	1829.8	1910.2	2022.8	2139.1	2149.0	2099.5	1982.0
22.5°	1862.0	1845.9	1845.9	1837.2	1863.2	1946.1	2098.3	2259.1	2303.6	2245.5	2089.6
25°	1975.8	1998.0	1984.4	1944.8	1934.9	1978.2	2152.7	2386.5	2445.9	2391.5	2235.6
27.5°	2121.8	2129.2	2152.7	2099.5	2031.4	2045.1	2212.1	2458.3	2580.8	2507.8	2318.5
30°	2332.1	2318.5	2313.5	2254.1	2165.1	2146.5	2280.1	2563.4	2757.7	2655.0	2416.2
32.5°	2474.4	2507.8	2506.5	2424.9	2317.2	2276.4	2364.2	2662.4	2947.0	2851.7	2596.8
35°	2756.4	2791.1	2763.9	2643.8	2517.7	2436.0	2485.5	2791.1	3163.5	3089.2	2750.2
37.5°	3116.4	3198.1	3140.0	2918.5	2740.3	2651.3	2653.7	2930.9	3384.9	3324.3	2914.8
40°	3365.1	3475.2	3394.8	3187.0	2997.7	2913.6	2880.1	3096.7	3649.7	3585.3	3172.1
42.5°	3673.2	3764.7	3722.7	3517.3	3295.8	3224.1	3157.3	3373.8	4054.2	4024.5	3502.4
45°	4009.7	4053.0	4039.4	3909.5	3663.3	3638.5	3491.3	3738.7	4530.5	4542.9	3915.7
47.5°	4322.7	4346.2	4372.2	4278.2	4124.7	4145.8	3876.1	4129.7	4993.2	5074.9	4375.9
50°	4403.1	4483.5	4544.2	4607.2	4640.7	4782.9	4300.4	4609.7	5525.2	5683.6	4888.1
52.5°	4321.5	4315.3	4499.6	4697.6	5031.6	5329.8	4878.2	5206.0	5995.4	6308.4	5357.0
55°	3950.3	3937.9	4234.9	4497.1	5149.1	5634.1	5703.4	6000.3	6563.2	6970.3	5991.6
57.5°	3300.8	3224.1	3548.2	3978.8	4894.3	5667.5	6532.3	7179.3	7436.7	7900.6	6960.4
60°	2218.3	2186.1	2496.6	3010.1	3973.8	5193.7	7028.4	8655.3	8667.7	9189.8	8463.5
62.5°	1365.8	1372.0	1571.2	1956.0	2782.4	4117.3	6814.4	9834.3	9836.8	10360.1	9700.7
65°	893.2	897.0	1057.8	1270.6	1738.2	2792.3	5635.3	9927.1	10649.6	11135.8	10267.3
66°	795.5	796.7	935.3	1108.5	1440.1	2285.1	4977.2	9685.9	10832.7	11238.5	10259.9
67.5°	670.6	686.6	798.0	931.6	1123.4	1641.7	3949.1	8988.1	10738.7	11095.0	10027.3
70°	524.6	533.2	621.1	757.2	842.5	950.2	2346.9	7326.6	9829.4	10407.1	9181.1
72.5°	420.6	428.1	494.9	614.9	684.2	626.0	1278.0	5316.2	7764.5	8380.6	7221.4
75°	355.1	356.3	388.5	483.7	562.9	470.1	680.4	3412.1	4982.1	5269.1	4424.1
77.5°	287.0	292.0	314.2	368.7	452.8	369.9	405.8	1911.4	2501.6	2522.6	2045.1
80°	233.8	236.3	249.9	268.5	345.2	273.4	274.7	932.8	1072.6	1047.9	831.4
82.5°	184.3	186.8	202.9	199.2	253.6	195.5	170.7	449.1	493.6	483.7	382.3
85°	103.9	103.9	159.6	159.6	160.8	123.7	103.9	211.6	261.0	243.7	179.4
87.5°	33.4	34.6	48.2	50.7	80.4	55.7	50.7	79.2	123.7	108.9	64.3
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: P476553
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3
2.5°	1450.0	1430.2	1421.5	1393.1	1385.6	1367.1	1358.4	1347.3	1343.6	1327.5	1342.3
5°	1461.1	1454.9	1420.3	1384.4	1357.2	1344.8	1326.3	1301.5	1299.0	1276.8	1274.3
7.5°	1508.1	1487.1	1426.5	1388.1	1333.7	1302.7	1261.9	1249.5	1233.5	1226.0	1242.1
10°	1581.1	1527.9	1437.6	1341.1	1274.3	1237.2	1207.5	1198.8	1200.1	1195.1	1187.7
12.5°	1633.1	1582.3	1419.0	1301.5	1214.9	1179.0	1176.6	1185.2	1198.8	1192.6	1201.3
15°	1707.3	1612.0	1405.4	1235.9	1166.7	1156.8	1155.5	1181.5	1180.3	1180.3	1179.0
17.5°	1776.6	1641.7	1355.9	1179.0	1115.9	1123.4	1132.0	1130.8	1143.2	1148.1	1156.8
20°	1864.4	1676.4	1286.7	1122.1	1077.6	1075.1	1073.9	1075.1	1087.5	1094.9	1088.7
22.5°	1941.1	1683.8	1228.5	1067.7	1031.8	1021.9	1005.8	1021.9	1015.7	1018.2	1025.6
25°	2007.9	1685.0	1145.6	1026.9	986.0	963.8	951.4	950.2	939.0	937.8	937.8
27.5°	2063.6	1643.0	1072.6	969.9	931.6	910.6	909.3	895.7	867.3	848.7	851.2
30°	2106.9	1610.8	1021.9	920.5	883.3	879.6	868.5	837.6	800.5	776.9	776.9
32.5°	2183.6	1546.5	952.6	869.7	851.2	846.2	820.2	793.0	758.4	736.1	732.4
35°	2240.5	1487.1	906.9	826.4	817.8	807.9	785.6	755.9	746.0	741.1	744.8
37.5°	2304.9	1420.3	851.2	789.3	798.0	779.4	753.4	739.8	774.5	765.8	769.5
40°	2407.5	1373.3	796.7	767.0	775.7	754.7	721.3	716.3	759.6	728.7	721.3
42.5°	2595.6	1372.0	763.3	733.6	739.8	723.7	694.1	691.6	708.9	671.8	660.7
45°	2829.4	1415.3	738.6	708.9	704.0	701.5	691.6	680.4	665.6	617.4	605.0
47.5°	3109.0	1485.8	733.6	671.8	678.0	699.0	686.6	658.2	619.8	588.9	582.7
50°	3448.0	1631.8	721.3	644.6	655.7	689.1	679.2	639.6	605.0	585.2	581.5
52.5°	3822.9	1816.2	705.2	602.5	627.2	680.4	685.4	648.3	597.6	580.2	577.8
55°	4264.6	2088.4	686.6	556.7	593.8	671.8	685.4	623.5	587.7	587.7	585.2
57.5°	5136.8	2578.3	648.3	514.7	564.2	655.7	665.6	624.8	588.9	588.9	583.9
60°	6416.0	3342.9	575.3	482.5	535.7	633.4	650.8	606.2	575.3	582.7	581.5
62.5°	7416.9	3575.4	513.4	451.6	507.2	592.6	631.0	586.4	559.2	586.4	588.9
65°	7630.9	3340.4	450.3	418.2	467.7	553.0	602.5	558.0	535.7	588.9	591.4
66°	7554.2	3157.3	428.1	408.3	450.3	533.2	585.2	548.1	523.3	586.4	587.7
67.5°	7212.7	2882.6	403.3	387.2	426.8	504.8	565.4	534.5	503.5	579.0	567.9
70°	6470.4	2444.7	361.3	350.1	393.4	457.8	519.6	499.8	472.6	533.2	513.4
72.5°	4983.4	1953.5	316.7	318.0	355.1	409.5	473.8	460.2	436.7	467.7	455.3
75°	3034.8	1248.3	275.9	278.4	309.3	363.7	430.5	420.6	392.2	409.5	403.3
77.5°	1344.8	618.6	232.6	237.5	262.3	320.4	374.9	358.8	329.1	332.8	330.3
80°	522.1	293.2	189.3	195.5	211.6	256.1	310.5	295.7	269.7	264.8	262.3
82.5°	251.1	163.3	146.0	148.5	154.6	204.1	267.2	248.7	214.0	191.8	191.8
85°	126.2	101.4	102.7	94.0	102.7	138.6	180.6	150.9	125.0	111.3	113.8
87.5°	50.7	50.7	50.7	43.3	45.8	65.6	84.1	56.9	52.0	30.9	30.9
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)