

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: P481118

Luminaire Tested: **IFLD-S-SA2D-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481118
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

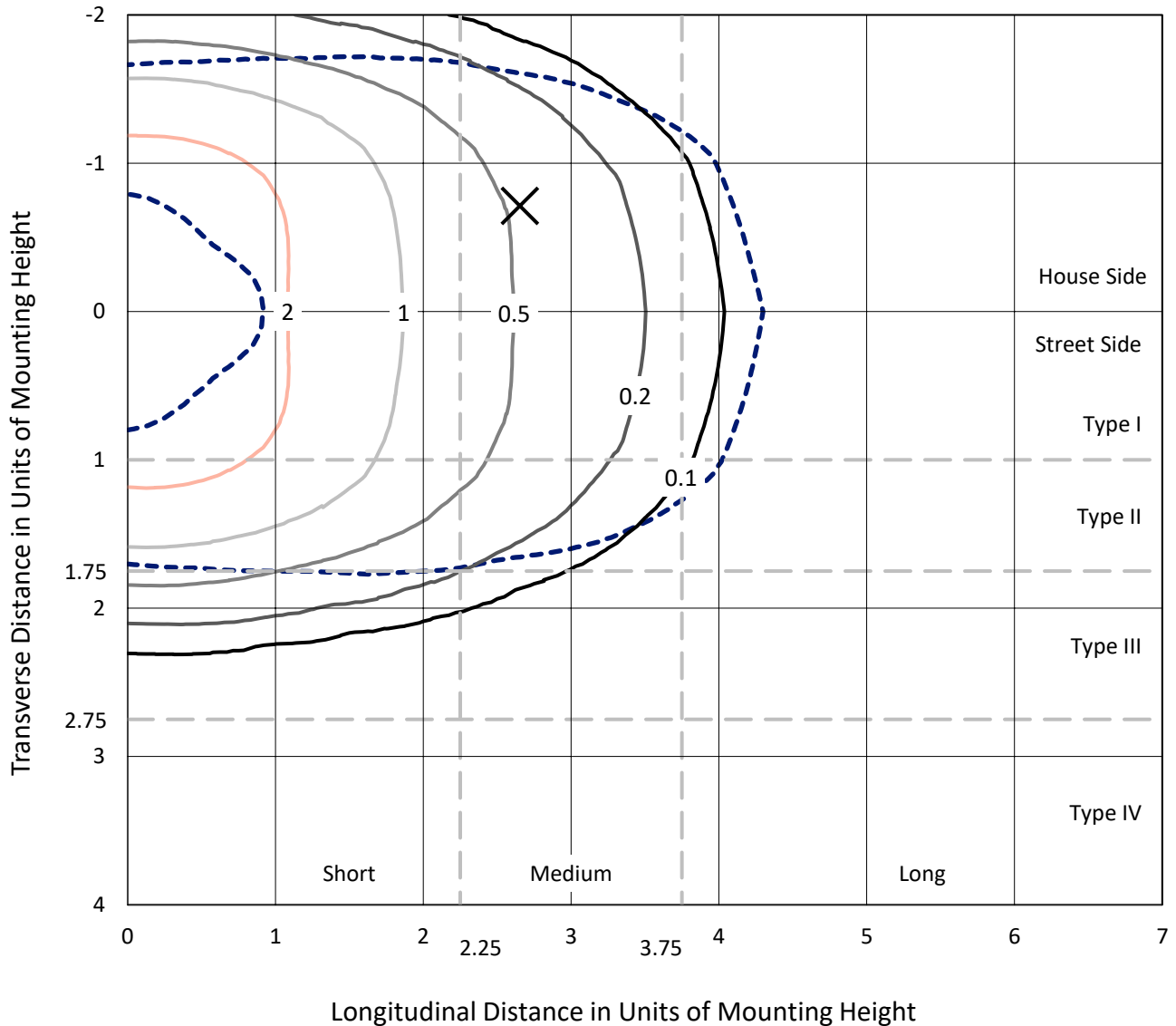
Lumens per Lamp: N/A
Luminaire Lumens: 11866 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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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 CATALOG NUMBER: IFLD-S-SA2D-722-U-RW

Iso-Footcandle Lines of Horizontal Illumination

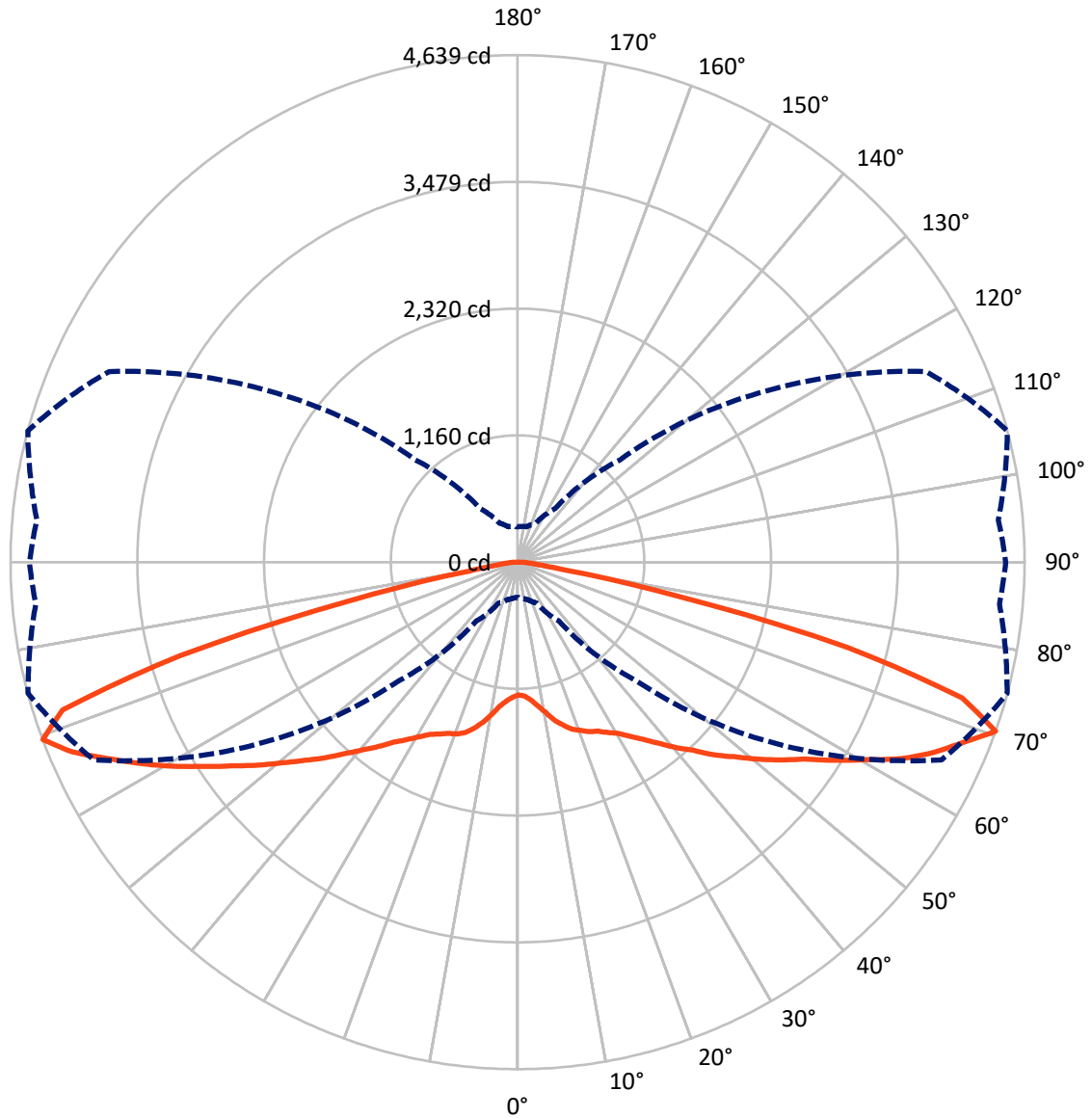
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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
House Side	Lumens	5890.8	0.0	5890.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5975.2	0.0	5975.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	11866.0	0.0	11866.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	1.0
10°-20°	411.8	3.5
20°-30°	797.4	6.7
30°-40°	1348.7	11.4
40°-50°	2151.5	18.1
50°-60°	2945.0	24.8
60°-70°	2775.8	23.4
70°-80°	1222.8	10.3
80°-90°	92.0	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°	11866.0	100.0
0°-180°	11866.0	100.0



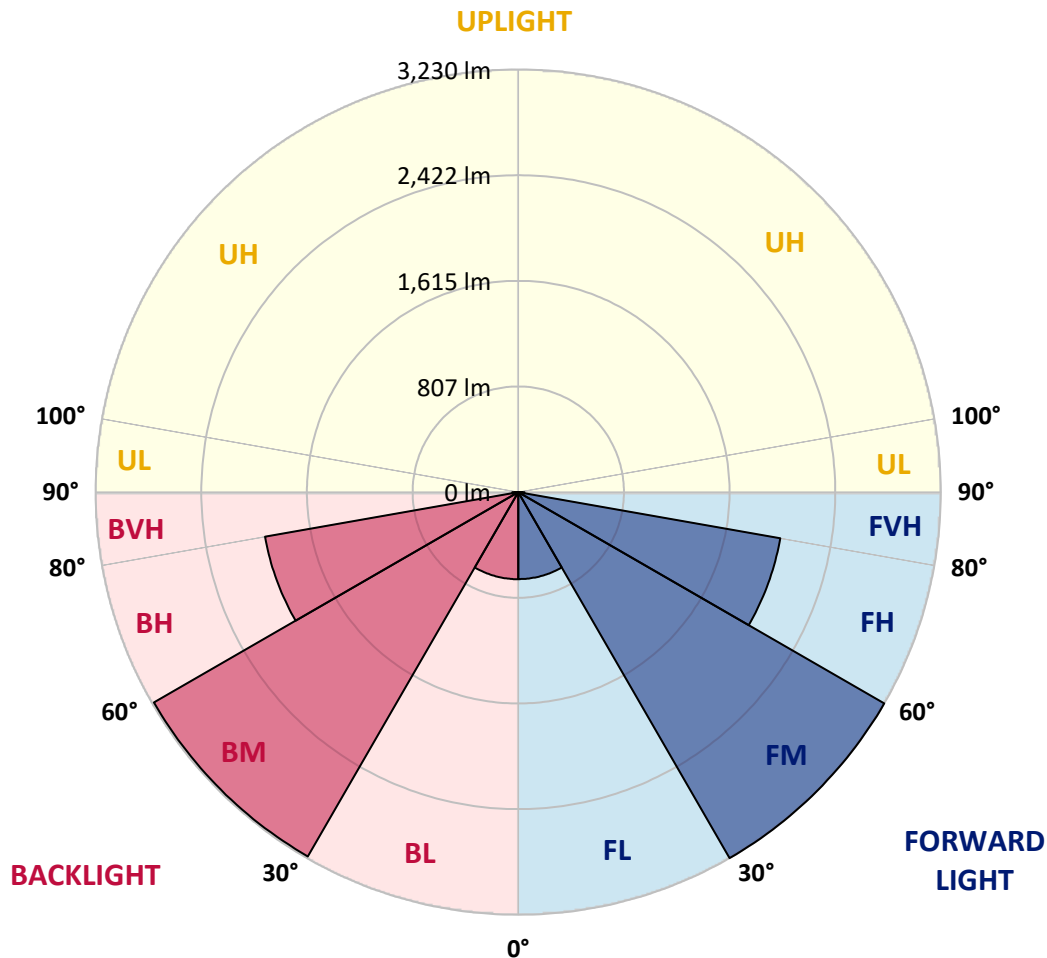
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.7	5.6			
FM (30°-60°)	3229.8	27.2			
FH (60°-80°)	2033.7	17.1			G2/5000
FVH (80°-90°)	47.0	0.4			G1/100
BL (0°-30°)	665.4	5.6	B2/1000		
BM (30°-60°)	3215.4	27.1	B3/5000		
BH (60°-80°)	1965.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	45.0	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





REPORT NUMBER: P481118
 CATALOG NUMBER: IFLD-S-SA2D-722-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1
2.5°	1207.4	1207.4	1206.1	1212.5	1218.9	1221.5	1226.6	1227.9	1235.5	1229.1	1241.9
5°	1203.6	1202.3	1212.5	1227.9	1227.9	1244.5	1254.7	1268.8	1272.6	1280.3	1282.9
7.5°	1230.4	1227.9	1222.7	1239.4	1253.4	1279.0	1293.1	1317.4	1326.3	1336.6	1348.1
10°	1247.0	1247.0	1241.9	1271.3	1284.1	1318.7	1349.4	1373.7	1408.2	1419.7	1421.0
12.5°	1249.6	1253.4	1268.8	1307.2	1343.0	1387.7	1410.8	1456.8	1491.3	1513.1	1520.8
15°	1288.0	1280.3	1296.9	1349.4	1401.8	1441.5	1482.4	1515.6	1565.5	1593.7	1611.6
17.5°	1322.5	1314.8	1345.5	1408.2	1461.9	1523.3	1559.1	1594.9	1630.7	1656.3	1657.6
20°	1377.5	1383.9	1410.8	1478.5	1548.9	1602.6	1643.5	1649.9	1667.8	1704.9	1698.5
22.5°	1445.3	1440.2	1496.4	1570.6	1647.4	1692.1	1715.2	1698.5	1689.6	1729.2	1738.2
25°	1513.1	1528.4	1579.6	1648.7	1740.7	1800.9	1807.3	1761.2	1728.0	1742.0	1738.2
27.5°	1616.7	1619.2	1673.0	1754.8	1848.2	1900.6	1896.8	1831.6	1767.6	1768.9	1771.4
30°	1749.7	1736.9	1795.7	1869.9	1962.0	2009.3	2015.7	1922.4	1836.7	1811.1	1817.5
32.5°	1877.6	1892.9	1944.1	2028.5	2096.3	2123.2	2109.1	2026.0	1914.7	1880.2	1884.0
35°	2041.3	2038.8	2109.1	2180.7	2231.9	2237.0	2225.5	2104.0	1999.1	1954.3	1936.4
37.5°	2216.5	2239.6	2285.6	2344.4	2398.2	2400.7	2338.0	2240.8	2111.7	2037.5	2059.2
40°	2412.2	2437.8	2471.1	2556.8	2596.4	2555.5	2491.5	2359.8	2225.5	2160.3	2170.5
42.5°	2584.9	2596.4	2664.2	2765.2	2784.4	2766.5	2671.9	2512.0	2355.9	2284.3	2289.4
45°	2743.5	2758.8	2847.1	2937.9	2982.7	2952.0	2842.0	2689.8	2508.2	2446.8	2422.5
47.5°	2889.3	2920.0	3005.7	3099.1	3168.1	3170.7	3035.1	2850.9	2659.1	2578.5	2577.2
50°	2987.8	3032.5	3117.0	3223.1	3324.2	3363.8	3228.2	3030.0	2824.1	2738.4	2729.4
52.5°	3041.5	3087.5	3172.0	3337.0	3449.5	3510.9	3446.9	3197.5	3017.2	2927.7	2913.6
55°	2976.3	3007.0	3145.1	3376.6	3550.5	3651.6	3609.4	3429.0	3209.1	3136.1	3148.9
57.5°	2698.7	2762.7	2932.8	3221.8	3548.0	3796.1	3792.3	3647.8	3430.3	3361.3	3363.8
60°	2221.7	2275.4	2485.1	2889.3	3404.7	3855.0	3990.5	3860.1	3678.5	3597.9	3595.3
62.5°	1568.1	1635.9	1878.9	2320.1	2982.7	3773.1	4218.2	4127.4	3921.5	3862.6	3884.4
65°	877.4	918.3	1143.4	1542.5	2272.8	3322.9	4259.1	4404.9	4168.3	4078.8	4082.6
67.5°	469.4	484.7	589.6	809.6	1390.3	2561.9	3846.0	4564.8	4435.6	4280.9	4256.6
70°	322.3	327.4	354.3	414.4	657.4	1532.3	2900.8	4279.6	4636.4	4425.4	4466.3
72.5°	272.4	269.9	276.3	282.7	344.1	685.6	1702.4	3293.5	4376.8	4297.5	4282.1
75°	236.6	235.3	237.9	231.5	239.2	301.8	753.3	2052.8	3203.9	3576.1	3633.7
77.5°	195.7	197.0	198.2	191.9	189.3	199.5	303.1	901.7	1577.0	1740.7	1877.6
80°	148.4	150.9	161.2	154.8	144.5	145.8	179.1	301.8	452.8	410.6	423.4
82.5°	101.0	102.3	124.1	116.4	108.7	98.5	115.1	156.0	176.5	134.3	117.7
85°	71.6	70.3	80.6	74.2	69.1	49.9	69.1	88.3	106.2	66.5	60.1
87.5°	16.6	16.6	33.3	26.9	25.6	20.5	26.9	34.5	46.0	29.4	26.9
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: P481118

CATALOG NUMBER: IFLD-S-SA2D-722-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1	1215.1
2.5°	1238.1	1226.6	1226.6	1224.0	1213.8	1211.2	1202.3	1204.8	1198.4	1192.0
5°	1281.6	1266.2	1266.2	1244.5	1224.0	1221.5	1211.2	1211.2	1201.0	1203.6
7.5°	1341.7	1327.6	1304.6	1285.4	1257.3	1245.8	1226.6	1224.0	1221.5	1216.3
10°	1413.3	1395.4	1372.4	1332.7	1309.7	1288.0	1268.8	1241.9	1235.5	1236.8
12.5°	1510.5	1482.4	1432.5	1398.0	1368.5	1340.4	1312.3	1272.6	1263.7	1267.5
15°	1579.6	1543.8	1493.9	1481.1	1441.5	1406.9	1360.9	1316.1	1300.8	1296.9
17.5°	1635.9	1606.4	1577.0	1557.8	1525.9	1483.7	1419.7	1368.5	1334.0	1330.2
20°	1681.9	1643.5	1637.1	1648.7	1609.0	1580.9	1502.8	1440.2	1394.1	1374.9
22.5°	1710.0	1685.7	1703.6	1713.9	1711.3	1664.0	1583.4	1510.5	1453.0	1435.1
25°	1740.7	1712.6	1776.6	1811.1	1820.0	1742.0	1679.3	1583.4	1527.1	1515.6
27.5°	1756.1	1766.3	1840.5	1913.4	1907.0	1846.9	1762.5	1676.8	1632.0	1611.6
30°	1800.9	1817.5	1930.0	2011.9	2013.2	1954.3	1890.4	1793.2	1743.3	1734.3
32.5°	1881.4	1901.9	2022.1	2109.1	2124.4	2079.7	2015.7	1955.6	1904.5	1884.0
35°	1942.8	1995.3	2130.8	2210.1	2251.1	2224.2	2188.4	2125.7	2072.0	2054.1
37.5°	2031.1	2104.0	2234.4	2341.9	2387.9	2385.4	2358.5	2290.7	2246.0	2230.6
40°	2157.7	2230.6	2349.6	2491.5	2577.2	2573.4	2558.0	2505.6	2439.1	2431.4
42.5°	2292.0	2352.1	2506.9	2669.3	2792.1	2779.3	2738.4	2677.0	2630.9	2620.7
45°	2422.5	2515.8	2659.1	2867.6	2959.6	2991.6	2943.0	2838.1	2785.7	2779.3
47.5°	2586.2	2660.4	2839.4	3026.2	3163.0	3168.1	3085.0	2987.8	2891.9	2912.3
50°	2732.0	2830.5	3012.1	3216.7	3380.4	3321.6	3215.4	3093.9	3024.9	2998.0
52.5°	2888.0	3008.2	3219.3	3427.8	3518.6	3459.7	3287.1	3151.5	3046.6	3035.1
55°	3115.7	3178.4	3454.6	3614.5	3643.9	3519.9	3265.3	3073.5	2937.9	2904.6
57.5°	3347.2	3420.1	3661.8	3800.0	3769.3	3486.6	3124.6	2827.9	2650.1	2602.8
60°	3581.2	3670.8	3874.1	4000.8	3842.2	3257.7	2726.9	2344.4	2137.2	2095.0
62.5°	3842.2	3958.6	4140.2	4184.9	3626.0	2804.9	2164.1	1692.1	1482.4	1412.0
65°	4073.7	4192.6	4416.4	4146.6	3166.8	2092.5	1399.2	966.9	812.2	755.9
67.5°	4264.2	4398.5	4508.5	3669.5	2318.9	1225.3	729.0	509.0	451.5	431.0
70°	4415.2	4639.0	4124.8	2697.4	1325.1	597.3	393.9	335.1	327.4	322.3
72.5°	4283.4	4254.0	3079.9	1556.6	580.7	328.7	285.2	276.3	275.0	276.3
75°	3503.2	3124.6	1841.8	676.6	291.6	237.9	236.6	232.8	239.2	239.2
77.5°	1699.8	1486.2	770.0	290.3	191.9	186.7	193.1	193.1	193.1	193.1
80°	393.9	436.1	275.0	176.5	139.4	139.4	153.5	154.8	148.4	145.8
82.5°	134.3	179.1	150.9	111.3	92.1	103.6	116.4	118.9	98.5	99.8
85°	66.5	104.9	81.9	64.0	47.3	64.0	75.5	79.3	67.8	65.2
87.5°	30.7	46.0	30.7	21.7	16.6	23.0	21.7	17.9	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)