

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: P476713

Luminaire Tested: **IFLD-S-SA3A-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476713
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

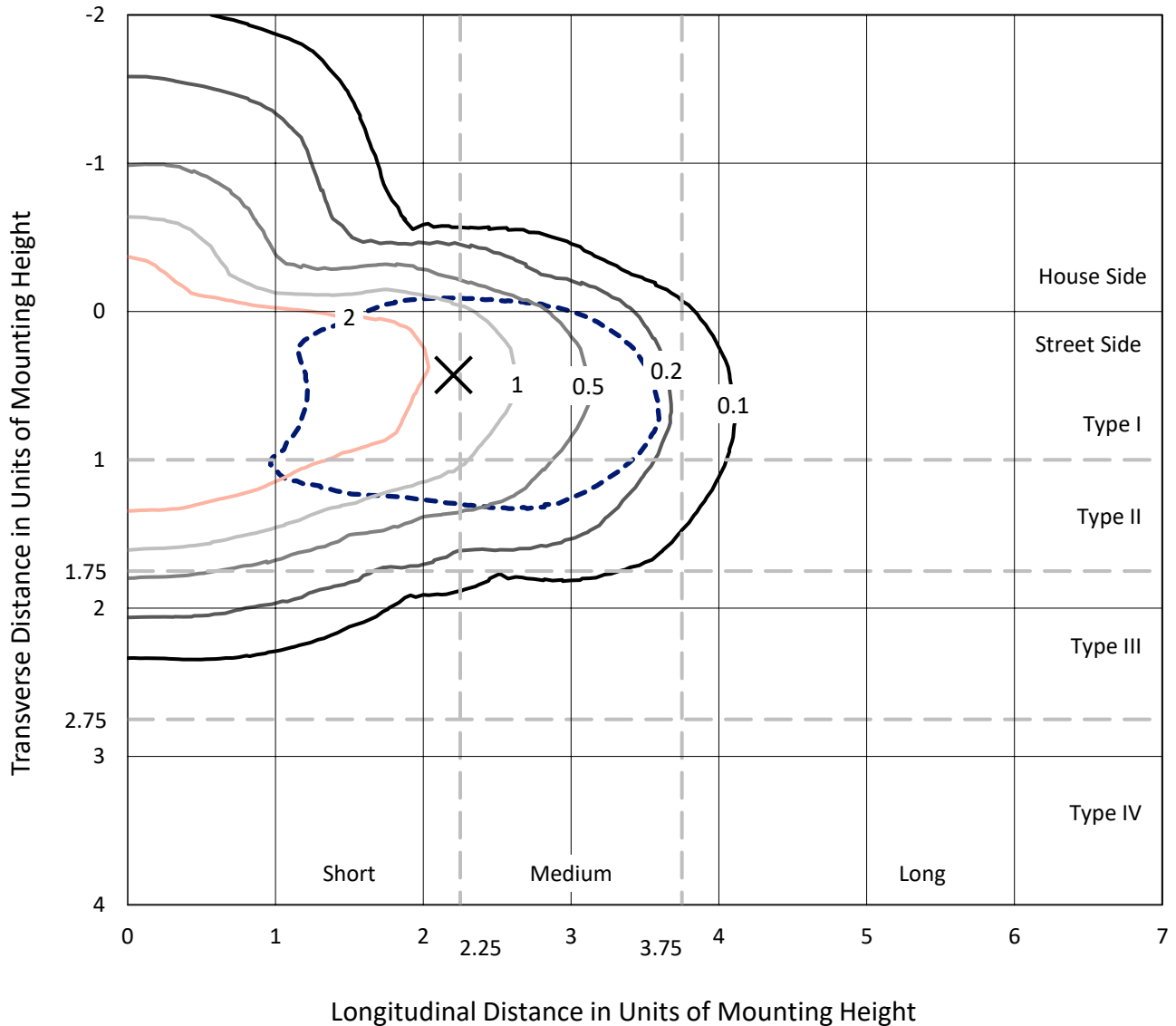
Lumens per Lamp: N/A
Luminaire Lumens: 10101.7 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

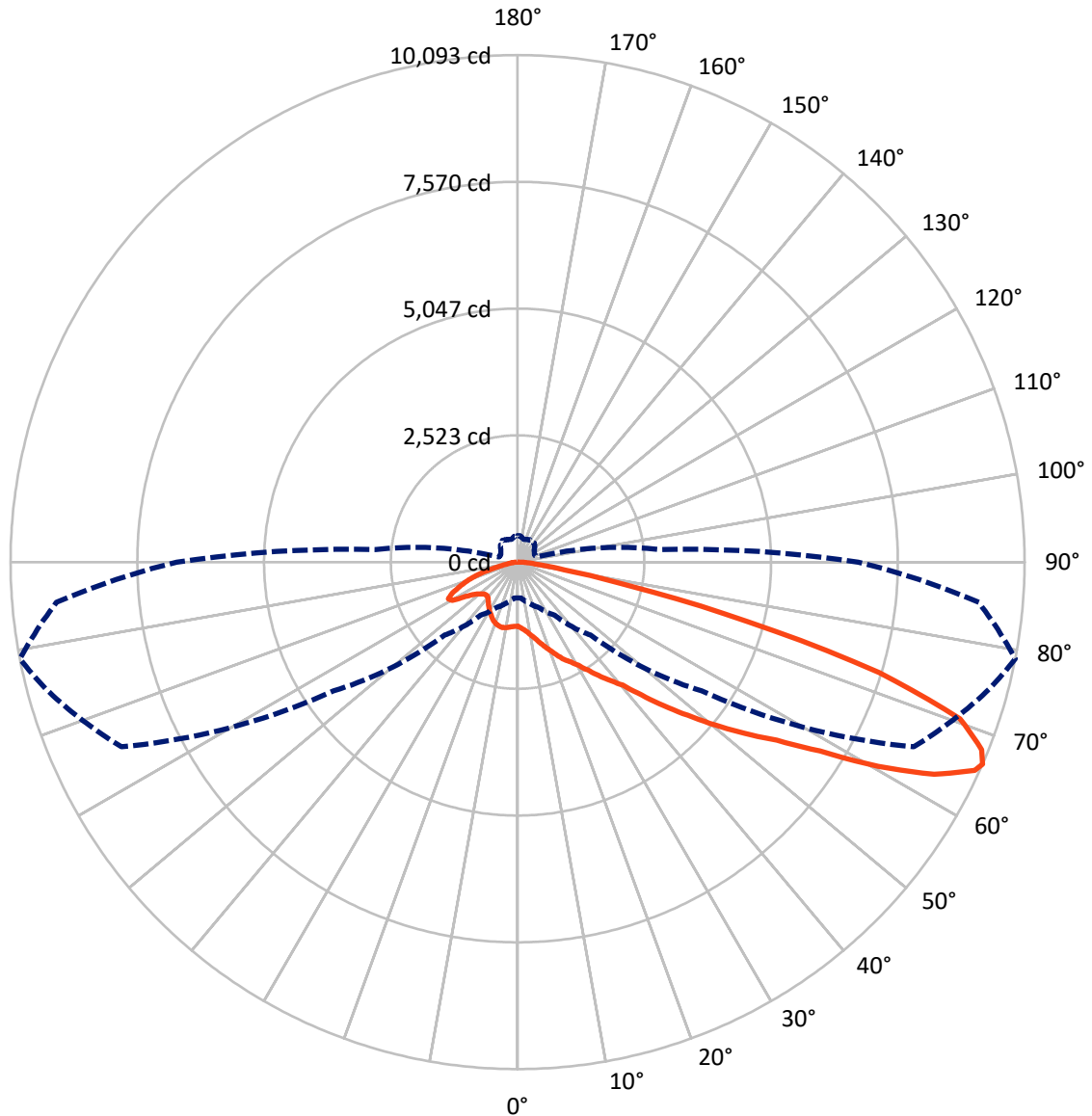
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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	2039.9	0.0	2039.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	8061.8	0.0	8061.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	10101.7	0.0	10101.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.2
10°-20°	387.3	3.8
20°-30°	664.8	6.6
30°-40°	1027.0	10.2
40°-50°	1645.0	16.3
50°-60°	2456.2	24.3
60°-70°	2523.7	25.0
70°-80°	1118.7	11.1
80°-90°	153.5	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°	10101.7	100.0
0°-180°	10101.7	100.0

Coefficient of Utilization



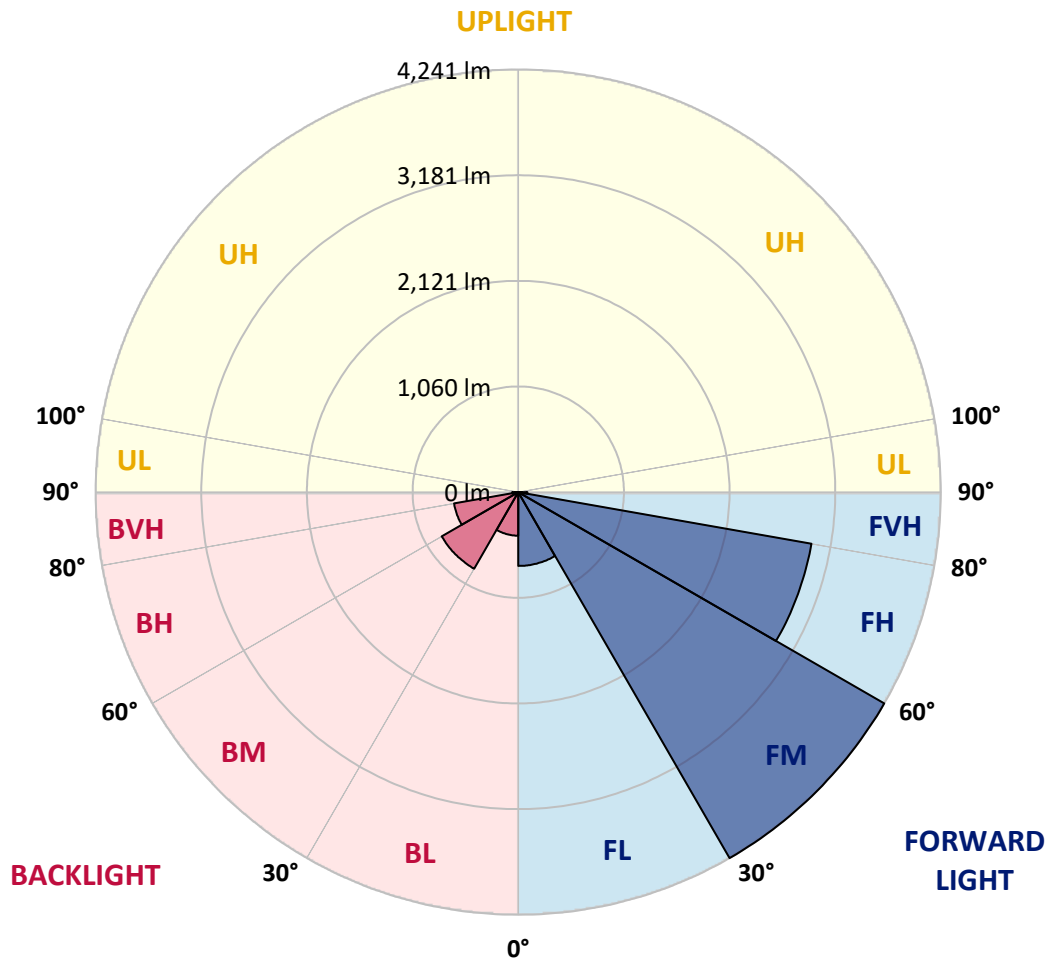
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.5	7.3			
FM (30°-60°)	4241.4	42.0			
FH (60°-80°)	2987.9	29.6			G2/5000
FVH (80°-90°)	92.1	0.9			G1/100
BL (0°-30°)	437.0	4.3	B1/500		
BM (30°-60°)	886.9	8.8	B1/1000		
BH (60°-80°)	654.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	61.4	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°	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6
2.5°	1356.7	1357.8	1357.8	1353.3	1354.5	1357.8	1345.6	1318.9	1318.9	1314.5	1306.7
5°	1440.0	1434.5	1426.7	1427.8	1423.3	1423.3	1410.0	1384.5	1362.2	1353.3	1330.0
7.5°	1451.1	1456.7	1455.6	1468.9	1475.6	1475.6	1482.2	1461.1	1427.8	1406.7	1383.3
10°	1473.3	1458.9	1457.8	1488.9	1498.9	1522.2	1548.9	1537.8	1510.0	1480.0	1448.9
12.5°	1486.7	1495.6	1495.6	1511.1	1534.5	1568.9	1615.6	1636.7	1593.3	1562.2	1514.5
15°	1506.7	1494.5	1530.0	1543.3	1587.8	1612.2	1678.9	1733.3	1704.5	1666.7	1591.1
17.5°	1515.6	1507.8	1527.8	1552.2	1627.8	1664.5	1745.6	1821.1	1796.7	1772.2	1694.5
20°	1561.1	1560.0	1568.9	1588.9	1643.3	1715.6	1816.7	1921.1	1930.0	1885.6	1780.0
22.5°	1672.2	1657.8	1657.8	1650.0	1673.3	1747.8	1884.5	2028.9	2068.9	2016.7	1876.7
25°	1774.5	1794.5	1782.2	1746.7	1737.8	1776.7	1933.3	2143.3	2196.7	2147.8	2007.8
27.5°	1905.6	1912.2	1933.3	1885.6	1824.5	1836.7	1986.7	2207.8	2317.8	2252.2	2082.2
30°	2094.5	2082.2	2077.8	2024.5	1944.5	1927.8	2047.8	2302.2	2476.7	2384.5	2170.0
32.5°	2222.2	2252.2	2251.1	2177.8	2081.1	2044.5	2123.3	2391.1	2646.7	2561.1	2332.2
35°	2475.6	2506.7	2482.2	2374.5	2261.1	2187.8	2232.2	2506.7	2841.1	2774.5	2470.0
37.5°	2798.9	2872.2	2820.0	2621.1	2461.1	2381.1	2383.3	2632.2	3040.0	2985.6	2617.8
40°	3022.2	3121.1	3048.9	2862.2	2692.2	2616.7	2586.7	2781.1	3277.8	3220.0	2848.9
42.5°	3298.9	3381.1	3343.4	3158.9	2960.0	2895.6	2835.6	3030.0	3641.1	3614.5	3145.6
45°	3601.1	3640.0	3627.8	3511.1	3290.0	3267.8	3135.6	3357.8	4068.9	4080.0	3516.7
47.5°	3882.2	3903.4	3926.7	3842.2	3704.5	3723.4	3481.1	3708.9	4484.5	4557.8	3930.0
50°	3954.5	4026.7	4081.1	4137.8	4167.8	4295.6	3862.2	4140.0	4962.2	5104.5	4390.0
52.5°	3881.1	3875.6	4041.1	4218.9	4518.9	4786.7	4381.1	4675.6	5384.5	5665.6	4811.1
55°	3547.8	3536.7	3803.4	4038.9	4624.5	5060.0	5122.3	5388.9	5894.5	6260.0	5381.1
57.5°	2964.5	2895.6	3186.7	3573.4	4395.6	5090.0	5866.7	6447.8	6678.9	7095.6	6251.1
60°	1992.2	1963.3	2242.2	2703.3	3568.9	4664.5	6312.3	7773.4	7784.5	8253.4	7601.2
62.5°	1226.7	1232.2	1411.1	1756.7	2498.9	3697.8	6120.0	8832.3	8834.5	9304.5	8712.3
65°	802.2	805.6	950.0	1141.1	1561.1	2507.8	5061.1	8915.6	9564.5	10001.2	9221.2
66°	714.4	715.6	840.0	995.6	1293.3	2052.2	4470.0	8698.9	9728.9	10093.4	9214.5
67.5°	602.2	616.7	716.7	836.7	1008.9	1474.5	3546.7	8072.3	9644.5	9964.5	9005.6
70°	471.1	478.9	557.8	680.0	756.7	853.3	2107.8	6580.0	8827.8	9346.7	8245.6
72.5°	377.8	384.4	444.4	552.2	614.4	562.2	1147.8	4774.5	6973.4	7526.7	6485.6
75°	318.9	320.0	348.9	434.4	505.6	422.2	611.1	3064.5	4474.5	4732.2	3973.4
77.5°	257.8	262.2	282.2	331.1	406.7	332.2	364.4	1716.7	2246.7	2265.6	1836.7
80°	210.0	212.2	224.4	241.1	310.0	245.6	246.7	837.8	963.3	941.1	746.7
82.5°	165.6	167.8	182.2	178.9	227.8	175.6	153.3	403.3	443.3	434.4	343.3
85°	93.3	93.3	143.3	143.3	144.4	111.1	93.3	190.0	234.4	218.9	161.1
87.5°	30.0	31.1	43.3	45.6	72.2	50.0	45.6	71.1	111.1	97.8	57.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6	1275.6
2.5°	1302.2	1284.5	1276.7	1251.1	1244.5	1227.8	1220.0	1210.0	1206.7	1192.2	1205.6
5°	1312.2	1306.7	1275.6	1243.3	1218.9	1207.8	1191.1	1168.9	1166.7	1146.7	1144.5
7.5°	1354.5	1335.6	1281.1	1246.7	1197.8	1170.0	1133.3	1122.2	1107.8	1101.1	1115.6
10°	1420.0	1372.2	1291.1	1204.5	1144.5	1111.1	1084.5	1076.7	1077.8	1073.3	1066.7
12.5°	1466.7	1421.1	1274.5	1168.9	1091.1	1058.9	1056.7	1064.5	1076.7	1071.1	1078.9
15°	1533.3	1447.8	1262.2	1110.0	1047.8	1038.9	1037.8	1061.1	1060.0	1060.0	1058.9
17.5°	1595.6	1474.5	1217.8	1058.9	1002.2	1008.9	1016.7	1015.6	1026.7	1031.1	1038.9
20°	1674.5	1505.6	1155.6	1007.8	967.8	965.6	964.4	965.6	976.7	983.3	977.8
22.5°	1743.3	1512.2	1103.3	958.9	926.7	917.8	903.3	917.8	912.2	914.4	921.1
25°	1803.3	1513.3	1028.9	922.2	885.6	865.6	854.4	853.3	843.3	842.2	842.2
27.5°	1853.3	1475.6	963.3	871.1	836.7	817.8	816.7	804.4	778.9	762.2	764.4
30°	1892.2	1446.7	917.8	826.7	793.3	790.0	780.0	752.2	718.9	697.8	697.8
32.5°	1961.1	1388.9	855.6	781.1	764.4	760.0	736.7	712.2	681.1	661.1	657.8
35°	2012.2	1335.6	814.4	742.2	734.4	725.6	705.6	678.9	670.0	665.6	668.9
37.5°	2070.0	1275.6	764.4	708.9	716.7	700.0	676.7	664.4	695.6	687.8	691.1
40°	2162.2	1233.3	715.6	688.9	696.7	677.8	647.8	643.3	682.2	654.4	647.8
42.5°	2331.1	1232.2	685.6	658.9	664.4	650.0	623.3	621.1	636.7	603.3	593.3
45°	2541.1	1271.1	663.3	636.7	632.2	630.0	621.1	611.1	597.8	554.4	543.3
47.5°	2792.2	1334.5	658.9	603.3	608.9	627.8	616.7	591.1	556.7	528.9	523.3
50°	3096.7	1465.6	647.8	578.9	588.9	618.9	610.0	574.4	543.3	525.6	522.2
52.5°	3433.4	1631.1	633.3	541.1	563.3	611.1	615.6	582.2	536.7	521.1	518.9
55°	3830.0	1875.6	616.7	500.0	533.3	603.3	615.6	560.0	527.8	527.8	525.6
57.5°	4613.4	2315.6	582.2	462.2	506.7	588.9	597.8	561.1	528.9	528.9	524.4
60°	5762.3	3002.2	516.7	433.3	481.1	568.9	584.4	544.4	516.7	523.3	522.2
62.5°	6661.1	3211.1	461.1	405.6	455.6	532.2	566.7	526.7	502.2	526.7	528.9
65°	6853.4	3000.0	404.4	375.6	420.0	496.7	541.1	501.1	481.1	528.9	531.1
66°	6784.5	2835.6	384.4	366.7	404.4	478.9	525.6	492.2	470.0	526.7	527.8
67.5°	6477.8	2588.9	362.2	347.8	383.3	453.3	507.8	480.0	452.2	520.0	510.0
70°	5811.1	2195.6	324.4	314.4	353.3	411.1	466.7	448.9	424.4	478.9	461.1
72.5°	4475.6	1754.5	284.4	285.6	318.9	367.8	425.6	413.3	392.2	420.0	408.9
75°	2725.6	1121.1	247.8	250.0	277.8	326.7	386.7	377.8	352.2	367.8	362.2
77.5°	1207.8	555.6	208.9	213.3	235.6	287.8	336.7	322.2	295.6	298.9	296.7
80°	468.9	263.3	170.0	175.6	190.0	230.0	278.9	265.6	242.2	237.8	235.6
82.5°	225.6	146.7	131.1	133.3	138.9	183.3	240.0	223.3	192.2	172.2	172.2
85°	113.3	91.1	92.2	84.4	92.2	124.4	162.2	135.6	112.2	100.0	102.2
87.5°	45.6	45.6	45.6	38.9	41.1	58.9	75.6	51.1	46.7	27.8	27.8
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)