

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: P479441

Luminaire Tested: **IFLD-S-SA2D-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479441
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

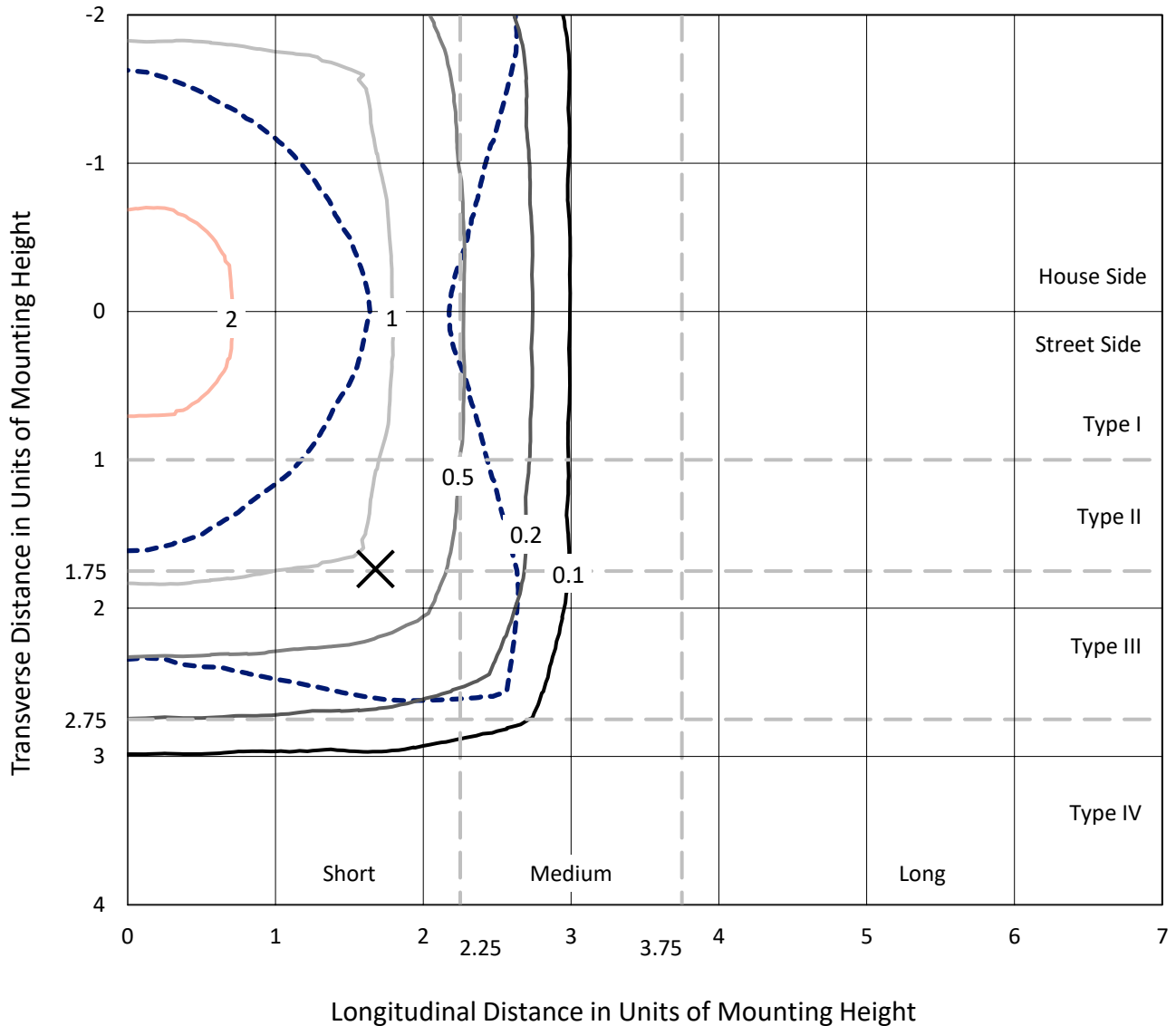
Lumens per Lamp: N/A
Luminaire Lumens: 11604.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

REPORT NUMBER: P479441
 CATALOG NUMBER: IFLD-S-SA2D-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

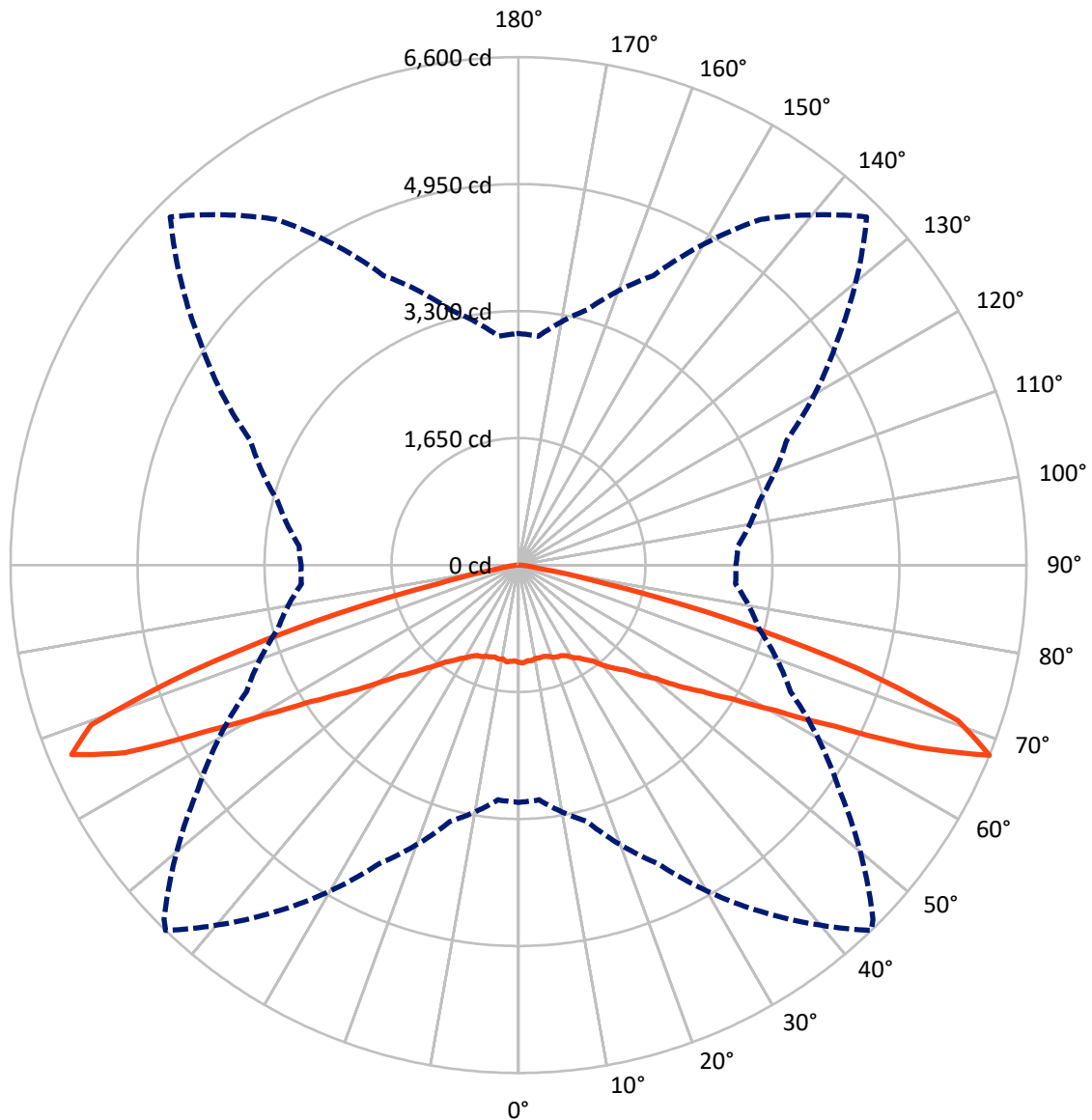
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

REPORT NUMBER: P479441
CATALOG NUMBER: IFLD-S-SA2D-827-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479441

CATALOG NUMBER: IFLD-S-SA2D-827-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5787.5	0.0	5787.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5817.3	0.0	5817.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	11604.8	0.0	11604.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	1.0
10°-20°	350.4	3.0
20°-30°	596.0	5.1
30°-40°	944.9	8.1
40°-50°	1540.8	13.3
50°-60°	2631.4	22.7
60°-70°	4002.3	34.5
70°-80°	1349.0	11.6
80°-90°	70.0	0.6
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°	11604.8	100.0
0°-180°	11604.8	100.0

Coefficient of Utilization



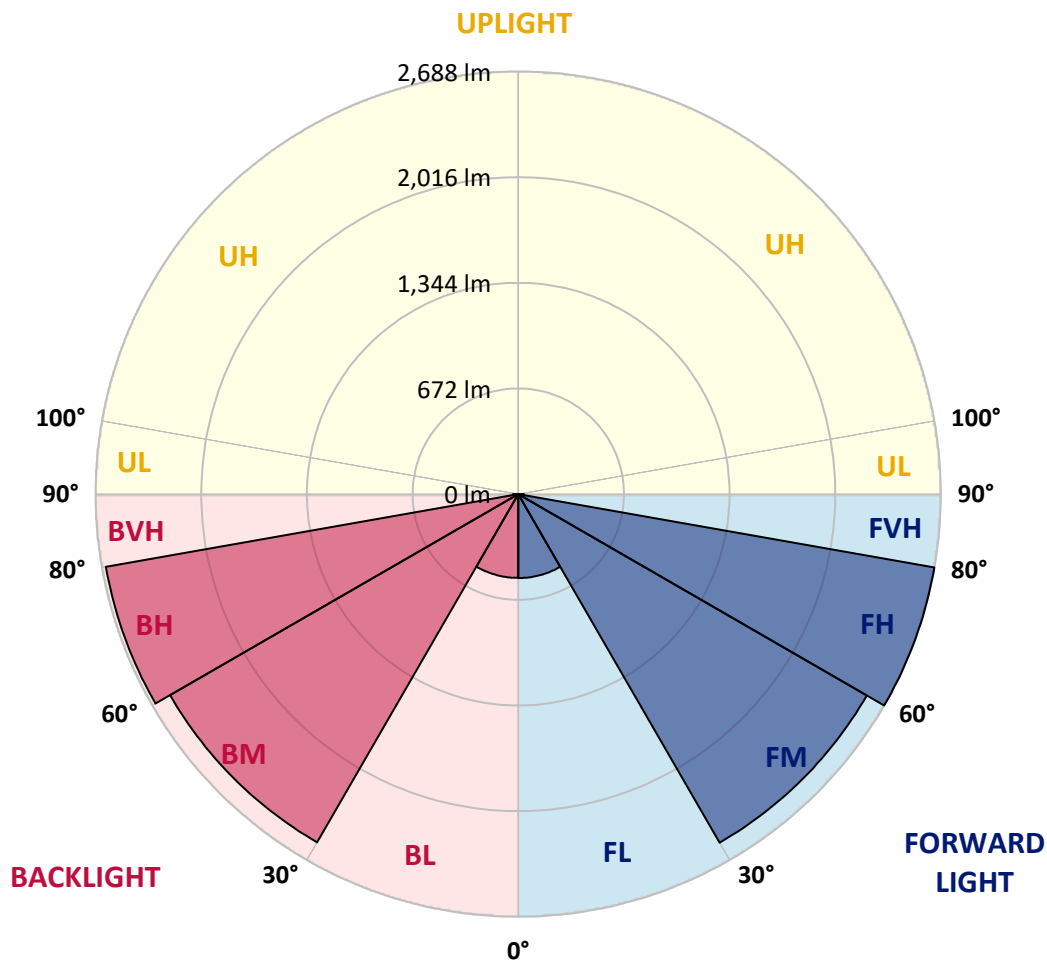
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.7	4.6			
FM (30°-60°)	2559.9	22.1			
FH (60°-80°)	2687.8	23.2			G2/5000
FVH (80°-90°)	35.8	0.3			G1/100
BL (0°-30°)	532.6	4.6	B2/1000		
BM (30°-60°)	2557.1	22.0	B3/5000		
BH (60°-80°)	2663.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	34.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479441

CATALOG NUMBER: IFLD-S-SA2D-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6
2.5°	1238.5	1253.1	1263.6	1262.3	1266.3	1270.3	1265.0	1272.9	1267.6	1276.9	1282.2
5°	1262.3	1258.4	1259.7	1251.7	1270.3	1249.1	1249.1	1259.7	1272.9	1257.0	1266.3
7.5°	1247.8	1245.1	1238.5	1250.4	1254.4	1254.4	1265.0	1245.1	1267.6	1272.9	1274.2
10°	1231.9	1217.3	1237.2	1249.1	1251.7	1230.5	1239.8	1245.1	1238.5	1245.1	1249.1
12.5°	1218.6	1226.6	1226.6	1226.6	1222.6	1237.2	1246.4	1245.1	1231.9	1243.8	1222.6
15°	1217.3	1213.3	1225.2	1235.8	1229.2	1231.9	1235.8	1247.8	1222.6	1227.9	1227.9
17.5°	1216.0	1221.3	1225.2	1223.9	1246.4	1246.4	1242.5	1234.5	1254.4	1243.8	1229.2
20°	1221.3	1217.3	1227.9	1231.9	1247.8	1279.5	1267.6	1261.0	1250.4	1237.2	1237.2
22.5°	1227.9	1225.2	1239.8	1257.0	1287.5	1295.4	1294.1	1286.2	1267.6	1251.7	1249.1
25°	1251.7	1227.9	1243.8	1276.9	1287.5	1303.4	1314.0	1303.4	1278.2	1282.2	1258.4
27.5°	1287.5	1283.5	1304.7	1327.2	1318.0	1332.5	1323.3	1331.2	1332.5	1312.7	1288.8
30°	1329.9	1318.0	1331.2	1374.9	1378.9	1394.8	1378.9	1357.7	1364.3	1347.1	1335.2
32.5°	1390.8	1386.8	1412.0	1441.1	1446.4	1438.5	1430.5	1442.5	1414.7	1401.4	1380.2
35°	1430.5	1447.8	1478.2	1500.7	1518.0	1510.0	1514.0	1502.1	1508.7	1480.9	1471.6
37.5°	1548.4	1541.8	1548.4	1586.8	1590.8	1586.8	1590.8	1604.1	1594.8	1571.0	1547.1
40°	1659.7	1649.1	1665.0	1708.7	1706.1	1719.3	1692.8	1707.4	1707.4	1662.3	1653.1
42.5°	1743.1	1778.9	1797.5	1833.2	1846.5	1834.5	1829.2	1831.9	1861.0	1808.1	1788.2
45°	1915.3	1914.0	1969.6	1989.5	1952.4	1949.8	1939.2	1971.0	1990.8	1960.4	1952.4
47.5°	2102.1	2111.4	2143.2	2151.1	2173.6	2132.6	2132.6	2136.5	2206.7	2135.2	2098.1
50°	2270.3	2282.3	2345.8	2408.1	2365.7	2322.0	2339.2	2360.4	2398.8	2331.3	2299.5
52.5°	2474.3	2539.2	2581.6	2614.7	2645.2	2614.7	2575.0	2598.8	2674.3	2584.3	2544.5
55°	2768.4	2820.0	2859.8	2920.7	2945.9	2904.8	2900.8	2898.2	2940.6	2845.2	2790.9
57.5°	3096.9	3075.7	3139.3	3233.3	3324.7	3285.0	3273.0	3275.7	3286.3	3151.2	3110.1
60°	3504.8	3528.7	3604.2	3686.3	3783.0	3838.6	3760.5	3715.4	3724.7	3540.6	3477.0
62.5°	3738.0	3790.9	3961.8	4244.0	4438.7	4612.2	4624.1	4331.4	4135.3	3777.7	3507.5
65°	3625.4	3617.4	3939.3	4461.2	5199.0	5703.6	5628.1	4918.2	4233.4	3665.1	3302.2
67.5°	3083.6	3062.4	3451.9	4279.7	5498.3	6600.4	6514.3	5083.7	3902.2	3242.6	2832.0
70°	1986.9	1981.6	2404.1	3262.4	4908.9	6060.0	6091.7	4617.5	3176.3	2375.0	1968.3
72.5°	721.9	765.6	1010.7	1753.7	3334.0	4636.0	4655.9	3418.7	1826.6	1098.1	809.3
75°	266.2	274.2	319.2	569.6	1519.3	2846.5	2920.7	1658.4	649.0	357.6	291.4
77.5°	153.7	155.0	170.9	211.9	450.4	1111.3	1156.4	503.3	251.7	190.7	176.2
80°	104.6	103.3	120.5	137.8	180.1	315.2	335.1	210.6	158.9	132.5	111.3
82.5°	60.9	64.9	88.7	98.0	109.9	139.1	141.7	131.1	119.2	98.0	72.9
85°	37.1	30.5	49.0	54.3	63.6	62.3	62.3	71.5	76.8	68.9	41.1
87.5°	9.3	9.3	11.9	13.2	17.2	13.2	14.6	27.8	37.1	34.4	21.2
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: P479441
 CATALOG NUMBER: IFLD-S-SA2D-827-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6	1267.6
2.5°	1270.3	1266.3	1268.9	1283.5	1274.2	1246.4	1253.1	1267.6	1255.7	1249.1	1247.8
5°	1265.0	1272.9	1263.6	1266.3	1275.6	1253.1	1257.0	1275.6	1267.6	1270.3	1255.7
7.5°	1266.3	1270.3	1262.3	1250.4	1250.4	1268.9	1258.4	1261.0	1249.1	1268.9	1242.5
10°	1258.4	1247.8	1238.5	1245.1	1242.5	1237.2	1233.2	1241.1	1229.2	1246.4	1227.9
12.5°	1234.5	1237.2	1234.5	1231.9	1237.2	1250.4	1229.2	1231.9	1213.3	1216.0	1225.2
15°	1225.2	1233.2	1230.5	1245.1	1251.7	1231.9	1247.8	1231.9	1217.3	1209.3	1223.9
17.5°	1229.2	1241.1	1237.2	1247.8	1235.8	1250.4	1253.1	1246.4	1229.2	1222.6	1229.2
20°	1233.2	1229.2	1234.5	1253.1	1270.3	1255.7	1255.7	1251.7	1235.8	1226.6	1226.6
22.5°	1242.5	1235.8	1243.8	1258.4	1263.6	1286.2	1266.3	1257.0	1230.5	1206.7	1229.2
25°	1261.0	1265.0	1270.3	1265.0	1294.1	1291.5	1288.8	1282.2	1241.1	1242.5	1238.5
27.5°	1296.8	1274.2	1280.9	1312.7	1316.6	1327.2	1314.0	1325.9	1282.2	1283.5	1257.0
30°	1340.5	1316.6	1337.8	1365.6	1364.3	1384.2	1377.6	1380.2	1349.7	1332.5	1296.8
32.5°	1388.2	1385.5	1398.8	1416.0	1422.6	1433.2	1431.9	1431.9	1413.3	1368.3	1374.9
35°	1441.1	1459.7	1475.6	1494.1	1496.8	1510.0	1491.5	1494.1	1475.6	1442.5	1453.1
37.5°	1545.8	1544.5	1561.7	1584.2	1586.8	1576.2	1590.8	1584.2	1559.0	1536.5	1519.3
40°	1667.6	1641.2	1657.0	1710.0	1714.0	1695.5	1694.1	1692.8	1674.3	1625.3	1614.7
42.5°	1773.6	1808.1	1805.4	1822.6	1810.7	1801.4	1834.5	1816.0	1801.4	1749.8	1740.5
45°	1910.0	1920.6	1955.1	2010.7	1953.8	1953.8	1976.3	1961.7	1953.8	1915.3	1879.6
47.5°	2079.6	2088.9	2157.7	2161.7	2124.6	2099.5	2169.7	2172.3	2139.2	2110.1	2066.3
50°	2278.3	2282.3	2344.5	2408.1	2367.0	2319.3	2390.9	2418.7	2344.5	2304.8	2250.5
52.5°	2496.8	2484.9	2536.6	2655.8	2616.0	2601.5	2678.3	2684.9	2584.3	2522.0	2536.6
55°	2748.5	2732.6	2873.0	2953.8	2928.6	2902.2	2936.6	2952.5	2871.7	2769.7	2805.5
57.5°	3074.3	3082.3	3152.5	3232.0	3273.0	3279.7	3295.6	3279.7	3197.5	3094.2	3061.1
60°	3400.2	3424.0	3560.5	3710.1	3723.4	3840.0	3818.8	3739.3	3622.7	3475.7	3482.3
62.5°	3520.7	3500.9	3720.7	4086.3	4397.6	4610.9	4516.8	4234.7	3964.5	3696.9	3716.8
65°	3278.3	3327.3	3626.7	4198.9	4874.5	5718.2	5217.5	4437.3	3891.6	3545.9	3507.5
67.5°	2825.3	2862.4	3242.6	3846.6	5045.3	6399.0	5482.4	4151.2	3432.0	2984.3	3008.1
70°	1968.3	1986.9	2359.1	3151.2	4575.1	6038.8	4946.0	3188.3	2369.7	1888.9	1915.3
72.5°	792.1	837.1	1082.2	1898.1	3377.7	4588.3	3330.0	1672.9	982.8	731.2	663.6
75°	292.7	294.1	345.7	653.0	1604.1	2883.6	1502.1	537.8	313.9	257.0	245.0
77.5°	169.5	168.2	180.1	235.8	464.9	1125.9	426.5	210.6	170.9	153.7	147.0
80°	106.0	104.6	123.2	156.3	204.0	308.6	180.1	131.1	115.2	99.3	99.3
82.5°	67.6	68.9	96.7	115.2	124.5	136.4	104.6	92.7	86.1	57.0	55.6
85°	43.7	39.7	67.6	76.8	68.9	60.9	58.3	49.0	45.0	27.8	30.5
87.5°	19.9	21.2	34.4	38.4	25.2	14.6	14.6	10.6	10.6	6.6	6.6
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)