

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: P479482

Luminaire Tested: **IFLD-S-SA3A-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479482
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

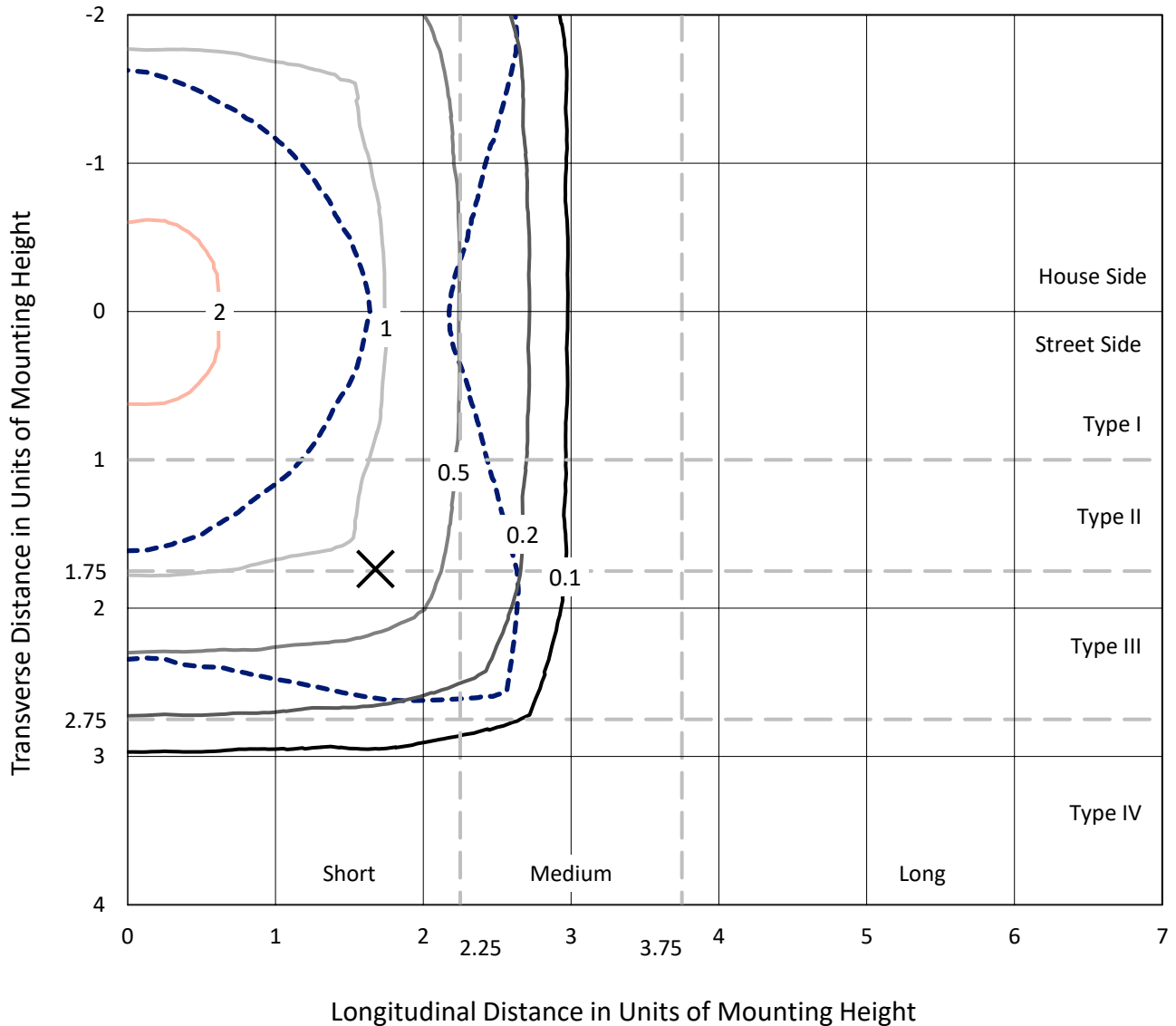
Lumens per Lamp: N/A
Luminaire Lumens: 11035.4 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

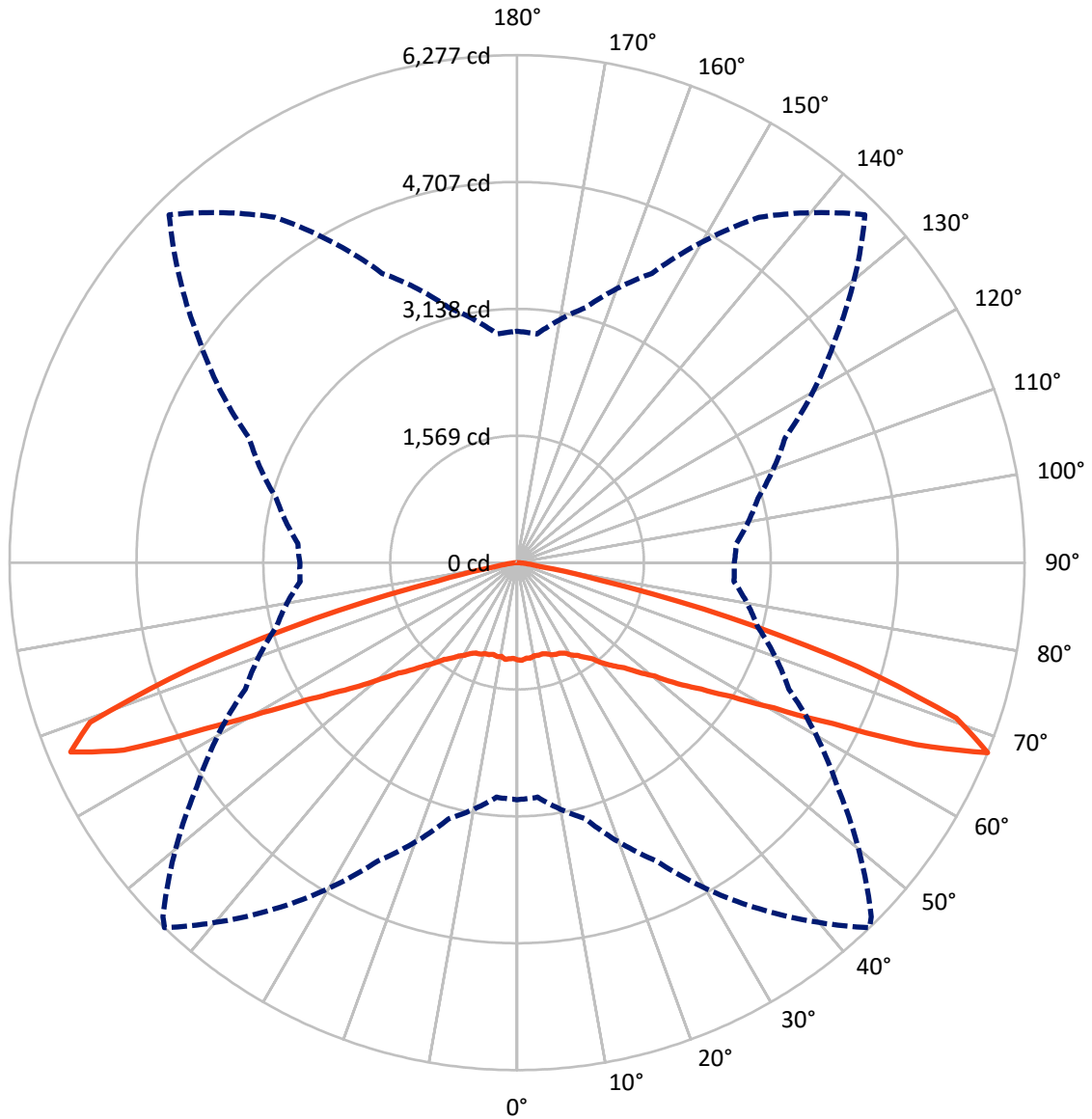
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5503.6	0.0	5503.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5531.8	0.0	5531.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	11035.4	0.0	11035.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.0
10°-20°	333.3	3.0
20°-30°	566.7	5.1
30°-40°	898.5	8.1
40°-50°	1465.2	13.3
50°-60°	2502.3	22.7
60°-70°	3805.9	34.5
70°-80°	1282.8	11.6
80°-90°	66.6	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°	11035.4	100.0
0°-180°	11035.4	100.0

Coefficient of Utilization



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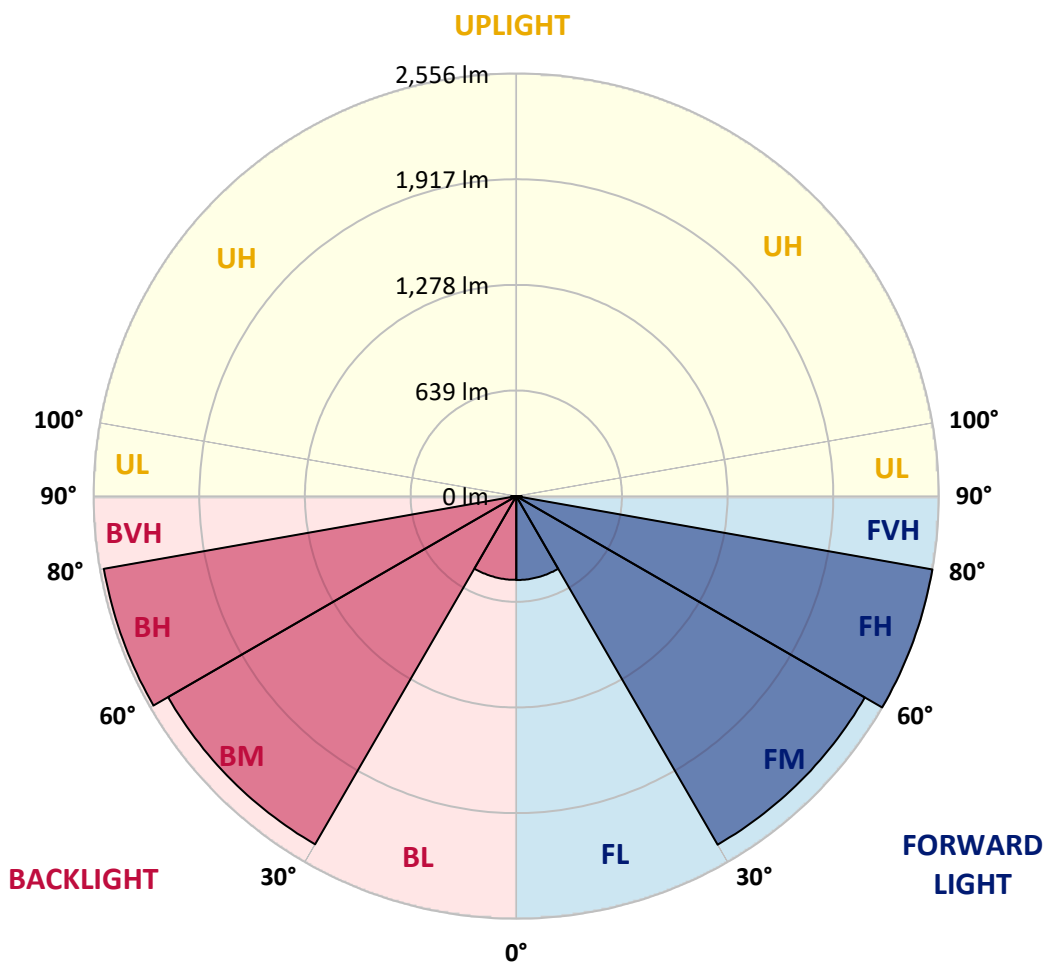
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.5	4.6			
FM (30°-60°)	2434.3	22.1			
FH (60°-80°)	2555.9	23.2			G2/5000
FVH (80°-90°)	34.1	0.3			G1/100
BL (0°-30°)	506.5	4.6	B2/1000		
BM (30°-60°)	2431.7	22.0	B2/2500		
BH (60°-80°)	2532.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	32.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1177.7	1191.6	1201.6	1200.4	1204.2	1207.9	1202.9	1210.5	1205.4	1214.2	1219.3
5°	1200.4	1196.6	1197.9	1190.3	1207.9	1187.8	1187.8	1197.9	1210.5	1195.3	1204.2
7.5°	1186.5	1184.0	1177.7	1189.1	1192.8	1192.8	1202.9	1184.0	1205.4	1210.5	1211.7
10°	1171.4	1157.6	1176.5	1187.8	1190.3	1170.2	1179.0	1184.0	1177.7	1184.0	1187.8
12.5°	1158.8	1166.4	1166.4	1166.4	1162.6	1176.5	1185.3	1184.0	1171.4	1182.8	1162.6
15°	1157.6	1153.8	1165.1	1175.2	1168.9	1171.4	1175.2	1186.5	1162.6	1167.6	1167.6
17.5°	1156.3	1161.3	1165.1	1163.9	1185.3	1185.3	1181.5	1173.9	1192.8	1182.8	1168.9
20°	1161.3	1157.6	1167.6	1171.4	1186.5	1216.8	1205.4	1199.1	1189.1	1176.5	1176.5
22.5°	1167.6	1165.1	1179.0	1195.3	1224.3	1231.9	1230.6	1223.1	1205.4	1190.3	1187.8
25°	1190.3	1167.6	1182.8	1214.2	1224.3	1239.4	1249.5	1239.4	1215.5	1219.3	1196.6
27.5°	1224.3	1220.5	1240.7	1262.1	1253.3	1267.1	1258.3	1265.9	1267.1	1248.3	1225.6
30°	1264.6	1253.3	1265.9	1307.5	1311.2	1326.3	1311.2	1291.1	1297.4	1281.0	1269.7
32.5°	1322.6	1318.8	1342.7	1370.4	1375.5	1367.9	1360.4	1371.7	1345.2	1332.6	1312.5
35°	1360.4	1376.7	1405.7	1427.1	1443.5	1435.9	1439.7	1428.4	1434.7	1408.2	1399.4
37.5°	1472.5	1466.2	1472.5	1509.0	1512.8	1509.0	1512.8	1525.4	1516.5	1493.9	1471.2
40°	1578.3	1568.2	1583.3	1624.9	1622.3	1634.9	1609.8	1623.6	1623.6	1580.8	1572.0
42.5°	1657.6	1691.6	1709.3	1743.3	1755.9	1744.5	1739.5	1742.0	1769.7	1719.3	1700.4
45°	1821.4	1820.1	1873.0	1891.9	1856.6	1854.1	1844.0	1874.3	1893.2	1864.2	1856.6
47.5°	1999.0	2007.8	2038.0	2045.6	2067.0	2027.9	2027.9	2031.7	2098.5	2030.5	1995.2
50°	2158.9	2170.3	2230.7	2289.9	2249.6	2208.1	2224.4	2244.6	2281.1	2216.9	2186.6
52.5°	2352.9	2414.6	2454.9	2486.4	2515.4	2486.4	2448.6	2471.3	2543.1	2457.5	2419.7
55°	2632.5	2681.7	2719.5	2777.4	2801.3	2762.3	2758.5	2756.0	2796.3	2705.6	2654.0
57.5°	2944.9	2924.8	2985.2	3074.7	3161.6	3123.8	3112.4	3115.0	3125.0	2996.6	2957.5
60°	3332.9	3355.5	3427.3	3505.4	3597.4	3650.3	3576.0	3533.1	3542.0	3366.9	3306.4
62.5°	3554.6	3604.9	3767.4	4035.7	4220.9	4385.9	4397.2	4118.9	3932.4	3592.3	3335.4
65°	3447.5	3439.9	3746.0	4242.3	4943.9	5423.8	5352.0	4676.8	4025.6	3485.3	3140.2
67.5°	2932.3	2912.2	3282.5	4069.7	5228.5	6276.5	6194.7	4834.3	3710.7	3083.5	2693.0
70°	1889.4	1884.3	2286.2	3102.4	4668.0	5762.6	5792.8	4390.9	3020.5	2258.4	1871.7
72.5°	686.5	728.0	961.1	1667.7	3170.4	4408.6	4427.5	3251.0	1737.0	1044.2	769.6
75°	253.2	260.7	303.6	541.6	1444.7	2706.9	2777.4	1577.0	617.2	340.1	277.1
77.5°	146.1	147.4	162.5	201.5	428.3	1056.8	1099.6	478.6	239.3	181.4	167.5
80°	99.5	98.2	114.6	131.0	171.3	299.8	318.7	200.3	151.2	126.0	105.8
82.5°	57.9	61.7	84.4	93.2	104.5	132.3	134.8	124.7	113.4	93.2	69.3
85°	35.3	29.0	46.6	51.6	60.5	59.2	59.2	68.0	73.1	65.5	39.0
87.5°	8.8	8.8	11.3	12.6	16.4	12.6	13.9	26.5	35.3	32.7	20.2
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°	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1207.9	1204.2	1206.7	1220.5	1211.7	1185.3	1191.6	1205.4	1194.1	1187.8	1186.5
5°	1202.9	1210.5	1201.6	1204.2	1213.0	1191.6	1195.3	1213.0	1205.4	1207.9	1194.1
7.5°	1204.2	1207.9	1200.4	1189.1	1189.1	1206.7	1196.6	1199.1	1187.8	1206.7	1181.5
10°	1196.6	1186.5	1177.7	1184.0	1181.5	1176.5	1172.7	1180.2	1168.9	1185.3	1167.6
12.5°	1173.9	1176.5	1173.9	1171.4	1176.5	1189.1	1168.9	1171.4	1153.8	1156.3	1165.1
15°	1165.1	1172.7	1170.2	1184.0	1190.3	1171.4	1186.5	1171.4	1157.6	1150.0	1163.9
17.5°	1168.9	1180.2	1176.5	1186.5	1175.2	1189.1	1191.6	1185.3	1168.9	1162.6	1168.9
20°	1172.7	1168.9	1173.9	1191.6	1207.9	1194.1	1194.1	1190.3	1175.2	1166.4	1166.4
22.5°	1181.5	1175.2	1182.8	1196.6	1201.6	1223.1	1204.2	1195.3	1170.2	1147.5	1168.9
25°	1199.1	1202.9	1207.9	1202.9	1230.6	1228.1	1225.6	1219.3	1180.2	1181.5	1177.7
27.5°	1233.1	1211.7	1218.0	1248.3	1252.0	1262.1	1249.5	1260.8	1219.3	1220.5	1195.3
30°	1274.7	1252.0	1272.2	1298.6	1297.4	1316.3	1310.0	1312.5	1283.5	1267.1	1233.1
32.5°	1320.0	1317.5	1330.1	1346.5	1352.8	1362.9	1361.6	1361.6	1344.0	1301.2	1307.5
35°	1370.4	1388.1	1403.2	1420.8	1423.3	1435.9	1418.3	1420.8	1403.2	1371.7	1381.8
37.5°	1469.9	1468.7	1485.1	1506.5	1509.0	1498.9	1512.8	1506.5	1482.5	1461.1	1444.7
40°	1585.8	1560.6	1575.7	1626.1	1629.9	1612.3	1611.0	1609.8	1592.1	1545.5	1535.4
42.5°	1686.6	1719.3	1716.8	1733.2	1721.9	1713.0	1744.5	1726.9	1713.0	1663.9	1655.1
45°	1816.3	1826.4	1859.2	1912.1	1857.9	1857.9	1879.3	1865.4	1857.9	1821.4	1787.4
47.5°	1977.6	1986.4	2051.9	2055.6	2020.4	1996.4	2063.2	2065.7	2034.2	2006.5	1965.0
50°	2166.5	2170.3	2229.5	2289.9	2250.9	2205.5	2273.6	2300.0	2229.5	2191.7	2140.0
52.5°	2374.3	2363.0	2412.1	2525.5	2487.7	2473.8	2546.9	2553.2	2457.5	2398.3	2412.1
55°	2613.6	2598.5	2732.0	2808.9	2784.9	2759.8	2792.5	2807.6	2730.8	2633.8	2667.8
57.5°	2923.5	2931.1	2997.8	3073.4	3112.4	3118.7	3133.9	3118.7	3040.6	2942.4	2910.9
60°	3233.4	3256.0	3385.8	3528.1	3540.7	3651.5	3631.4	3555.8	3445.0	3305.2	3311.5
62.5°	3348.0	3329.1	3538.2	3885.8	4181.8	4384.6	4295.2	4026.9	3769.9	3515.5	3534.4
65°	3117.5	3164.1	3448.8	3992.9	4635.3	5437.6	4961.5	4219.6	3700.7	3371.9	3335.4
67.5°	2686.7	2722.0	3083.5	3657.8	4797.8	6085.1	5213.4	3947.5	3263.6	2837.9	2860.5
70°	1871.7	1889.4	2243.3	2996.6	4350.6	5742.5	4703.3	3031.8	2253.4	1796.2	1821.4
72.5°	753.2	796.1	1029.1	1805.0	3211.9	4363.2	3166.6	1590.9	934.6	695.3	631.1
75°	278.4	279.6	328.8	621.0	1525.4	2742.1	1428.4	511.4	298.5	244.4	233.0
77.5°	161.2	160.0	171.3	224.2	442.1	1070.6	405.6	200.3	162.5	146.1	139.8
80°	100.8	99.5	117.1	148.6	194.0	293.5	171.3	124.7	109.6	94.5	94.5
82.5°	64.2	65.5	91.9	109.6	118.4	129.7	99.5	88.2	81.9	54.2	52.9
85°	41.6	37.8	64.2	73.1	65.5	57.9	55.4	46.6	42.8	26.5	29.0
87.5°	18.9	20.2	32.7	36.5	23.9	13.9	13.9	10.1	10.1	6.3	6.3
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)