

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: P478931

Luminaire Tested: **IFLD-S-SA2A-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478931
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

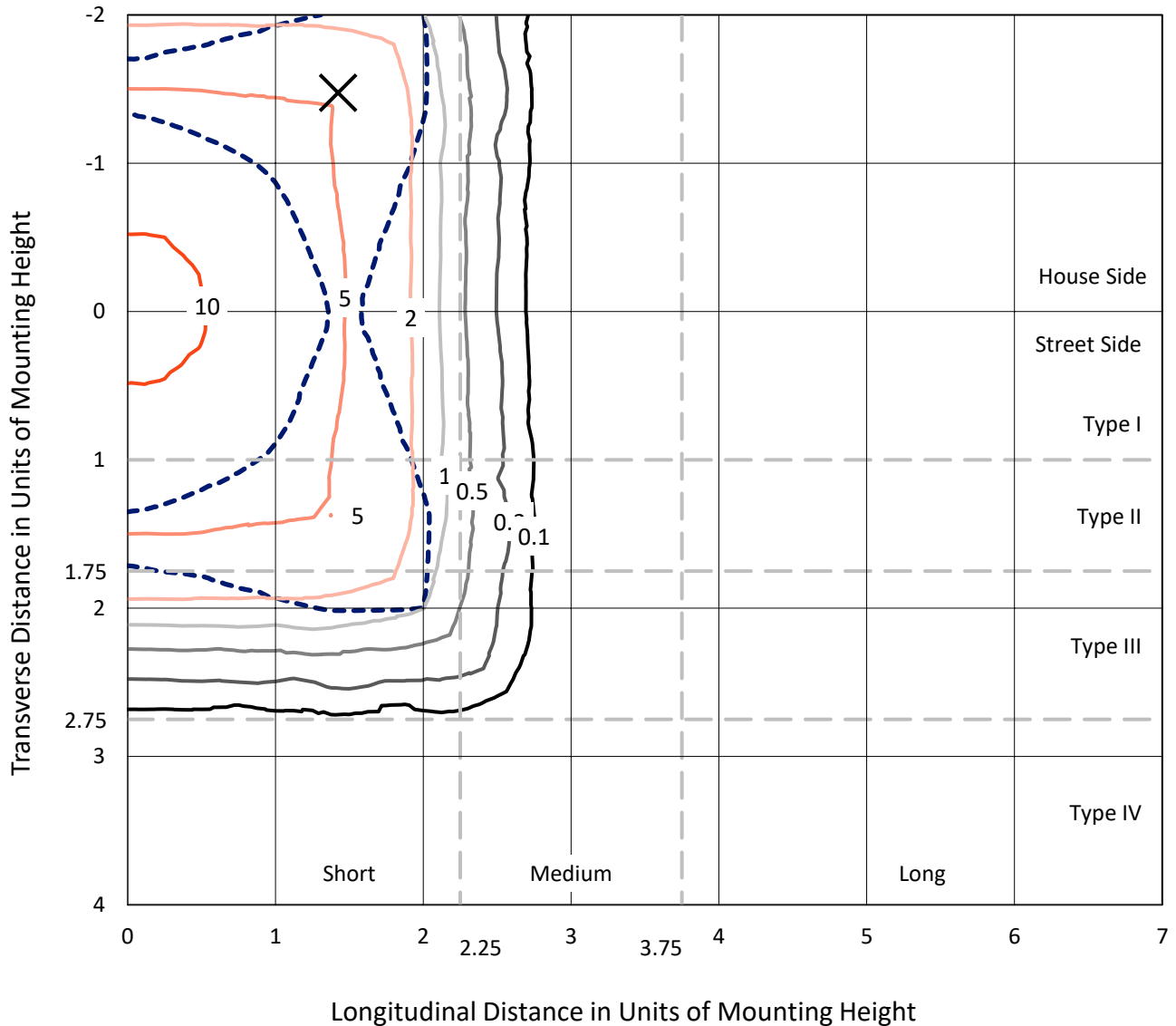
Lumens per Lamp: N/A
Luminaire Lumens: 9208 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 63.8
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

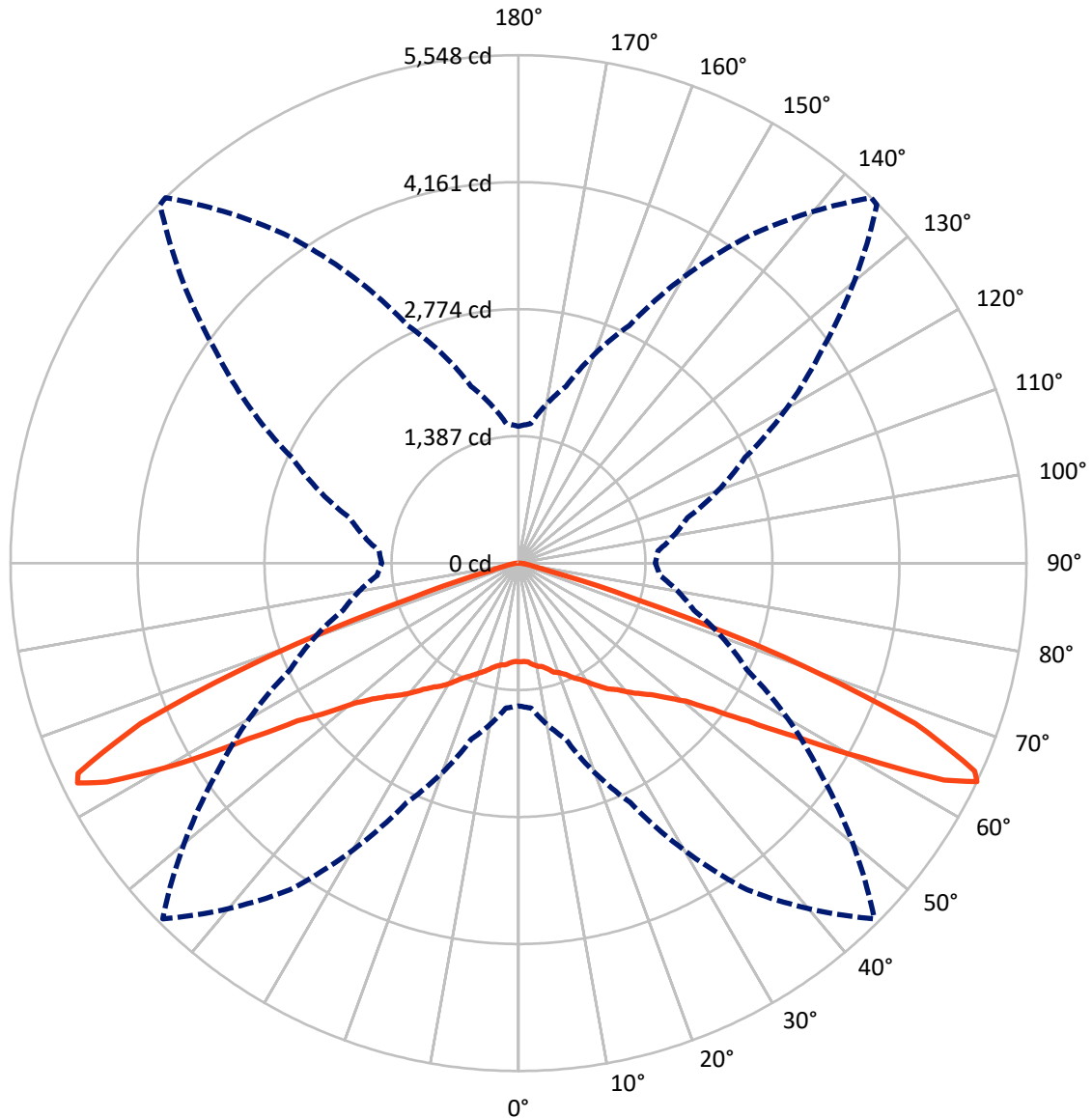
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4608.4	0.0	4608.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4599.6	0.0	4599.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9208.0	0.0	9208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.2
10°-20°	341.4	3.7
20°-30°	641.6	7.0
30°-40°	1058.2	11.5
40°-50°	1654.9	18.0
50°-60°	2673.9	29.0
60°-70°	2407.7	26.1
70°-80°	285.2	3.1
80°-90°	39.0	0.4
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°	9208.0	100.0
0°-180°	9208.0	100.0

Coefficient of Utilization



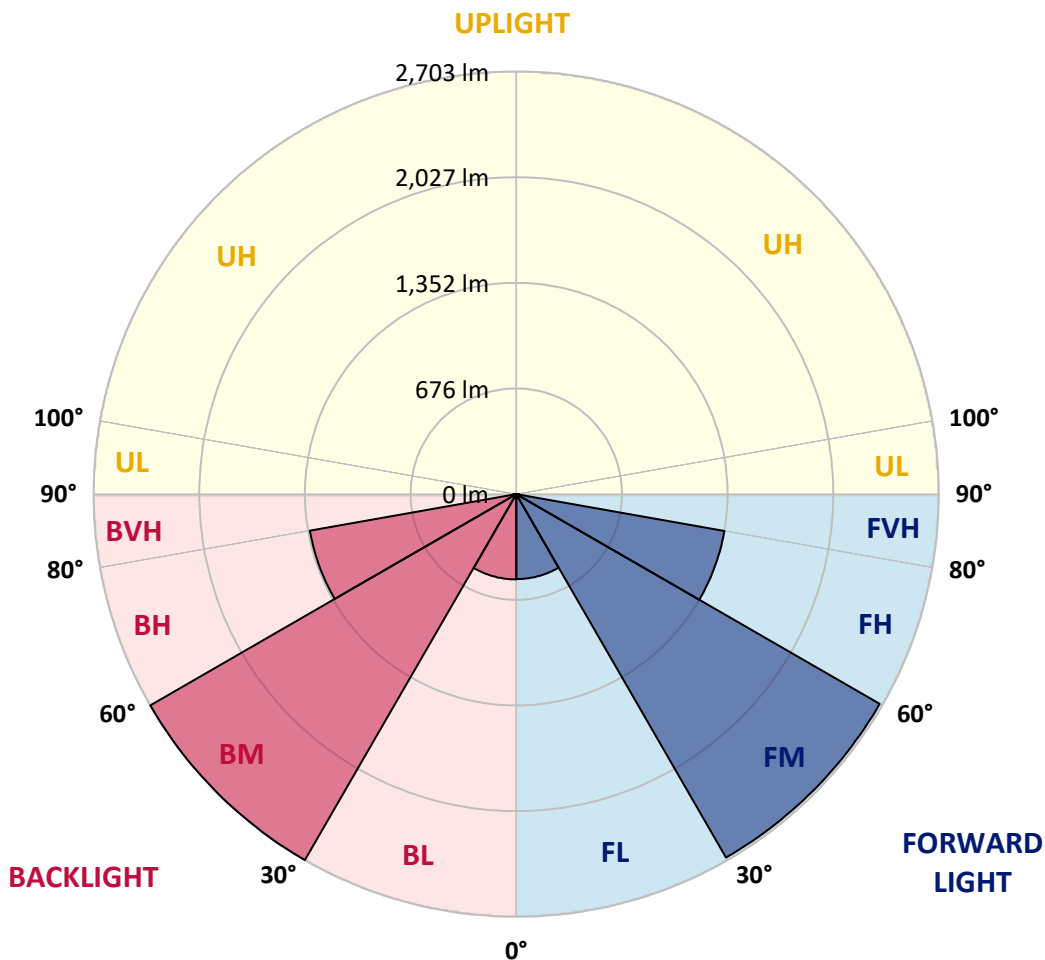
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.4	5.9			
FM (30°-60°)	2683.8	29.1			
FH (60°-80°)	1352.3	14.7			G1/1800
FVH (80°-90°)	20.0	0.2			G1/100
BL (0°-30°)	545.5	5.9	B2/1000		
BM (30°-60°)	2703.2	29.4	B3/5000		
BH (60°-80°)	1340.6	14.6	B3/2500		G1/1800
BVH (80°-90°)	19.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1
2.5°	1065.4	1067.5	1086.5	1079.1	1085.5	1073.8	1082.3	1100.2	1079.1	1095.0	1100.2
5°	1077.0	1080.2	1080.2	1087.6	1091.8	1089.7	1095.0	1087.6	1107.6	1099.2	1111.9
7.5°	1119.2	1114.0	1105.5	1111.9	1112.9	1118.2	1123.5	1133.0	1129.8	1122.4	1135.1
10°	1126.6	1122.4	1135.1	1136.1	1130.9	1126.6	1131.9	1131.9	1141.4	1143.5	1143.5
12.5°	1139.3	1143.5	1142.5	1150.9	1152.0	1148.8	1157.3	1173.1	1168.9	1172.0	1164.6
15°	1187.9	1182.6	1181.5	1190.0	1203.7	1183.7	1198.4	1197.4	1193.2	1199.5	1182.6
17.5°	1230.1	1213.2	1220.6	1234.3	1229.1	1233.3	1252.3	1235.4	1239.6	1232.2	1226.9
20°	1267.1	1253.3	1254.4	1259.7	1259.7	1272.3	1279.7	1273.4	1269.2	1268.1	1270.2
22.5°	1308.2	1292.4	1293.5	1315.6	1323.0	1318.8	1313.5	1324.1	1326.2	1317.8	1327.3
25°	1338.9	1355.8	1361.0	1371.6	1355.8	1367.4	1363.2	1383.2	1395.9	1379.0	1390.6
27.5°	1419.1	1411.7	1425.5	1424.4	1437.1	1425.5	1432.8	1439.2	1444.5	1445.5	1440.2
30°	1490.9	1494.1	1480.4	1517.3	1487.7	1506.8	1519.4	1522.6	1528.9	1528.9	1513.1
32.5°	1566.9	1560.6	1582.8	1574.3	1569.1	1583.8	1570.1	1613.4	1588.1	1602.8	1584.9
35°	1652.5	1652.5	1660.9	1684.1	1652.5	1643.0	1668.3	1686.3	1686.3	1659.9	1666.2
37.5°	1748.6	1740.1	1750.7	1780.2	1755.9	1724.3	1770.7	1778.1	1772.8	1765.4	1752.8
40°	1816.1	1814.0	1835.1	1874.2	1839.4	1833.0	1841.5	1861.5	1867.9	1875.3	1858.4
42.5°	1930.2	1939.7	2000.9	1991.4	1962.9	1940.7	1938.6	2013.6	1995.6	1976.6	1967.1
45°	2099.1	2090.7	2122.3	2123.4	2086.4	2037.9	2048.4	2117.1	2147.7	2105.4	2121.3
47.5°	2233.2	2237.4	2259.6	2305.0	2219.5	2168.8	2207.9	2318.7	2309.2	2293.4	2308.2
50°	2412.7	2431.7	2501.4	2485.6	2409.5	2347.2	2432.8	2537.3	2548.9	2490.8	2480.3
52.5°	2660.8	2690.4	2728.4	2741.1	2668.2	2646.1	2651.3	2781.2	2752.7	2696.7	2660.8
55°	2878.4	2892.1	2961.8	3066.3	3061.0	2954.4	3015.6	3064.2	2948.0	2833.0	2842.5
57.5°	2971.3	2977.6	3171.9	3381.0	3505.6	3529.8	3460.2	3296.5	3019.8	2798.1	2784.4
60°	2740.0	2800.2	3034.6	3506.6	4075.7	4356.6	3893.1	3322.9	2852.0	2582.7	2562.6
62.5°	2189.9	2193.1	2541.5	3257.4	4430.5	5166.5	4058.8	3074.8	2404.3	2099.1	2018.9
64°	1559.5	1589.1	1989.3	2883.6	4356.6	5495.9	4038.8	2750.6	1981.9	1549.0	1493.0
65°	1119.2	1160.4	1546.9	2503.5	4183.4	5456.8	3978.6	2471.8	1602.8	1182.6	1125.6
67.5°	411.8	428.7	607.1	1252.3	3004.0	4650.1	3152.9	1358.9	704.3	501.5	450.9
70°	191.1	192.2	224.9	413.9	1313.5	3109.6	1504.6	510.0	265.0	210.1	195.3
72.5°	140.4	143.6	157.3	191.1	386.5	1316.7	494.2	209.1	155.2	137.3	134.1
75°	114.0	116.1	120.4	138.3	178.4	352.7	200.6	144.7	123.5	110.9	106.6
77.5°	87.6	87.6	97.1	105.6	118.3	164.7	133.0	115.1	100.3	87.6	84.5
80°	63.4	64.4	76.0	82.4	80.2	108.8	96.1	95.0	82.4	68.6	63.4
82.5°	37.0	40.1	54.9	59.1	57.0	64.4	69.7	73.9	64.4	47.5	43.3
85°	21.1	22.2	31.7	32.7	32.7	30.6	40.1	44.3	43.3	29.6	26.4
87.5°	6.3	6.3	8.4	8.4	9.5	10.6	15.8	19.0	21.1	14.8	13.7
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1	1078.1
2.5°	1095.0	1079.1	1080.2	1084.4	1070.7	1076.0	1091.8	1080.2	1077.0	1070.7	1067.5
5°	1089.7	1106.6	1100.2	1102.3	1099.2	1084.4	1082.3	1091.8	1097.1	1087.6	1106.6
7.5°	1126.6	1119.2	1110.8	1114.0	1106.6	1119.2	1127.7	1108.7	1118.2	1112.9	1102.3
10°	1147.8	1134.0	1140.4	1138.2	1133.0	1145.6	1137.2	1135.1	1126.6	1115.0	1131.9
12.5°	1155.1	1171.0	1181.5	1163.6	1166.8	1160.4	1155.1	1155.1	1145.6	1142.5	1145.6
15°	1187.9	1201.6	1197.4	1211.1	1193.2	1199.5	1205.8	1190.0	1198.4	1175.2	1193.2
17.5°	1248.1	1236.4	1251.2	1233.3	1239.6	1252.3	1232.2	1232.2	1238.6	1225.9	1210.1
20°	1286.1	1280.8	1275.5	1276.6	1266.0	1277.6	1271.3	1268.1	1258.6	1262.8	1271.3
22.5°	1322.0	1314.6	1316.7	1319.9	1327.3	1322.0	1318.8	1322.0	1298.7	1319.9	1290.3
25°	1366.3	1386.4	1380.0	1393.8	1372.7	1386.4	1385.3	1365.3	1377.9	1369.5	1363.2
27.5°	1440.2	1429.7	1439.2	1422.3	1437.1	1438.1	1425.5	1459.2	1444.5	1442.3	1438.1
30°	1535.3	1527.9	1521.5	1512.0	1523.6	1514.1	1524.7	1527.9	1514.1	1503.6	1483.5
32.5°	1589.1	1609.2	1616.6	1593.3	1594.4	1599.7	1590.2	1580.7	1589.1	1592.3	1589.1
35°	1665.1	1684.1	1688.4	1670.4	1660.9	1687.3	1668.3	1700.0	1672.5	1673.6	1645.1
37.5°	1753.8	1759.1	1795.0	1775.0	1766.5	1753.8	1788.7	1784.5	1790.8	1740.1	1765.4
40°	1854.1	1873.1	1893.2	1842.5	1841.5	1853.1	1851.0	1875.3	1863.6	1856.3	1838.3
42.5°	1964.0	2004.1	2007.2	1973.5	1952.3	1950.2	1960.8	2014.6	2015.7	1967.1	1946.0
45°	2109.7	2154.0	2142.4	2076.9	2053.7	2050.5	2102.3	2125.5	2145.6	2126.6	2108.6
47.5°	2291.3	2320.8	2312.4	2252.2	2177.2	2198.4	2249.0	2321.9	2300.8	2275.4	2254.3
50°	2485.6	2520.4	2502.5	2442.3	2370.5	2370.5	2432.8	2525.7	2519.4	2469.7	2450.7
52.5°	2701.0	2751.6	2792.8	2707.3	2647.1	2656.6	2754.8	2788.6	2772.8	2737.9	2722.1
55°	2861.5	2958.6	3043.1	3047.3	3050.5	3049.4	3074.8	3108.5	2995.6	2939.6	2882.6
57.5°	2822.4	3006.1	3295.4	3491.8	3549.9	3580.5	3572.1	3415.8	3148.7	2964.9	2983.9
60°	2543.6	2843.5	3310.2	3940.6	4362.9	4320.7	4166.5	3548.8	3064.2	2753.8	2714.7
62.5°	2029.4	2390.5	3062.1	4067.3	5230.9	5218.2	4411.5	3241.6	2553.1	2160.4	2136.1
64°	1528.9	1909.0	2731.6	4034.6	5535.0	5547.6	4349.2	2863.6	1997.7	1528.9	1492.0
65°	1169.9	1522.6	2407.4	3967.0	5469.5	5476.9	4176.0	2472.9	1518.4	1085.5	1045.3
67.5°	465.6	648.3	1306.1	3008.2	4696.6	4676.5	2979.7	1196.3	580.7	378.0	370.6
70°	198.5	247.1	458.3	1425.5	3144.4	3086.4	1282.9	388.6	215.4	180.6	179.5
72.5°	136.2	151.0	196.4	440.3	1307.2	1276.6	365.3	180.6	146.8	135.2	135.2
75°	109.8	120.4	142.5	184.8	346.3	333.7	172.1	133.0	117.2	108.8	107.7
77.5°	85.5	96.1	111.9	127.8	158.4	157.3	115.1	100.3	90.8	84.5	82.4
80°	67.6	78.1	88.7	90.8	103.5	101.4	78.1	79.2	73.9	61.2	60.2
82.5°	46.5	63.4	70.7	64.4	61.2	61.2	56.0	56.0	51.7	38.0	34.8
85°	28.5	42.2	44.3	38.0	28.5	28.5	30.6	29.6	27.5	20.1	19.0
87.5°	14.8	20.1	18.0	14.8	9.5	9.5	8.4	6.3	6.3	5.3	5.3
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)