

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: P479440

Luminaire Tested: **IFLD-S-SA2C-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479440
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

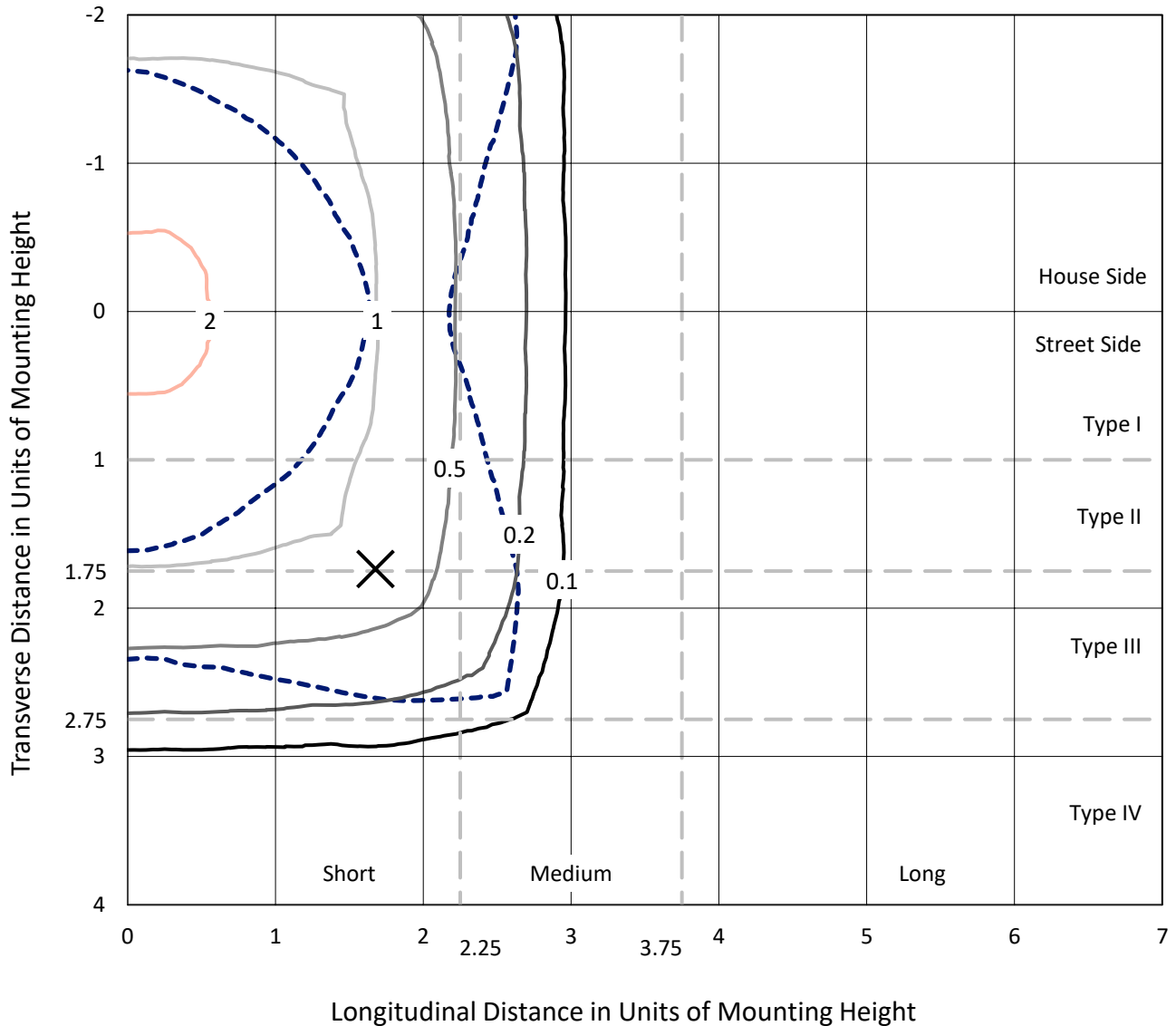
Lumens per Lamp: N/A
Luminaire Lumens: 10546.6 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 108.2
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

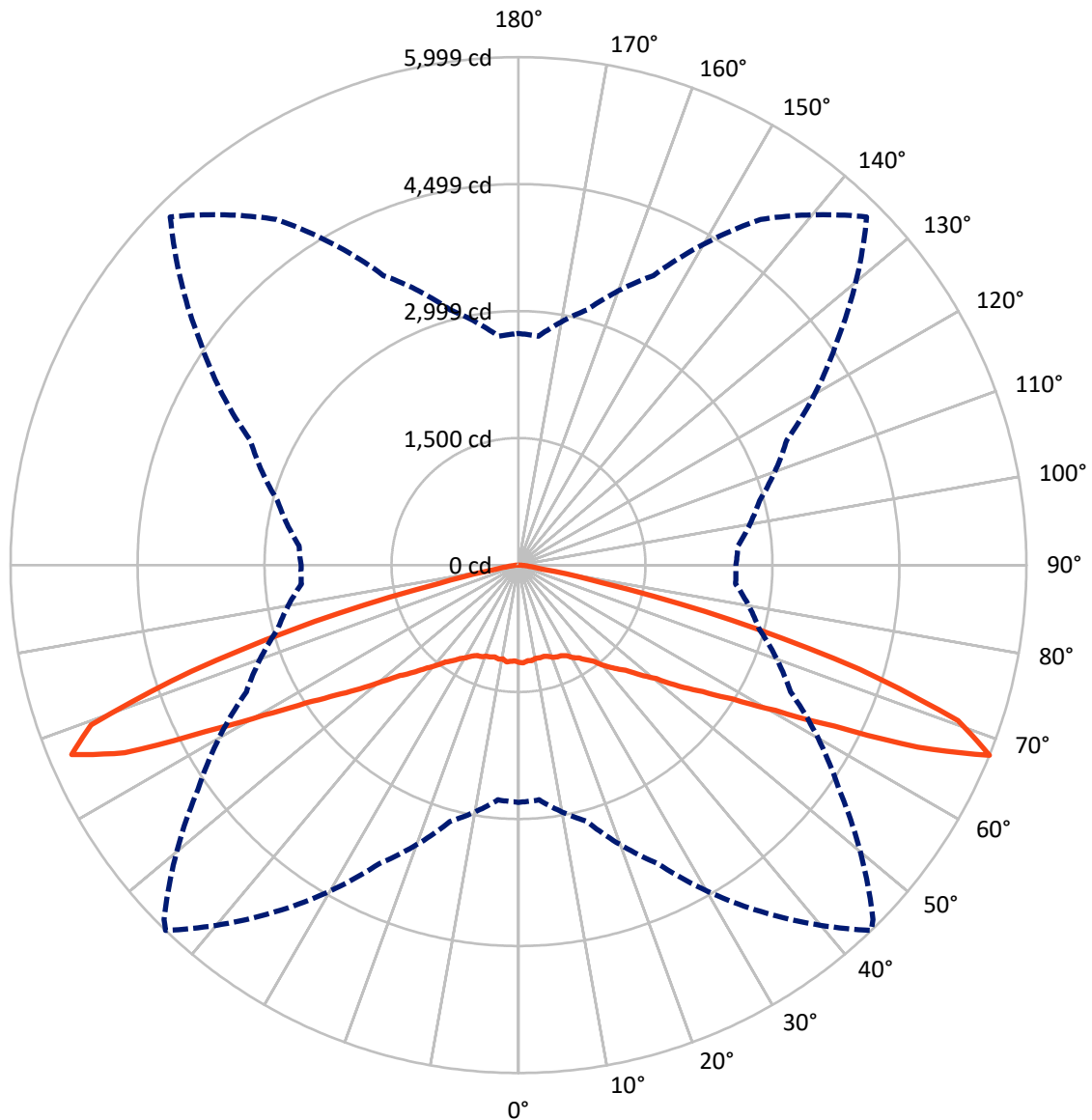
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 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	5259.8	0.0	5259.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5286.8	0.0	5286.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	10546.6	0.0	10546.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.0
10°-20°	318.5	3.0
20°-30°	541.6	5.1
30°-40°	858.7	8.1
40°-50°	1400.3	13.3
50°-60°	2391.4	22.7
60°-70°	3637.4	34.5
70°-80°	1226.0	11.6
80°-90°	63.7	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°	10546.6	100.0
0°-180°	10546.6	100.0

Coefficient of Utilization



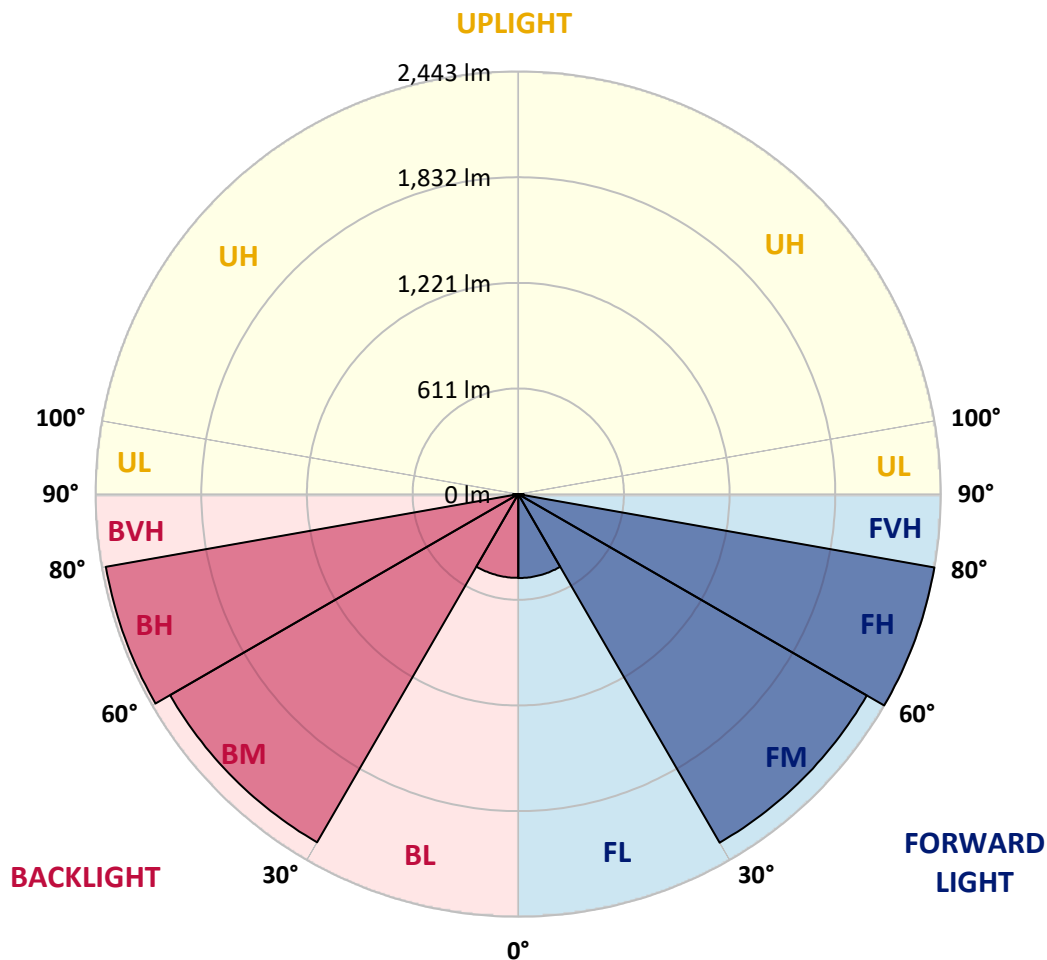
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.1	4.6			
FM (30°-60°)	2326.5	22.1			
FH (60°-80°)	2442.7	23.2			G2/5000
FVH (80°-90°)	32.6	0.3			G1/100
BL (0°-30°)	484.1	4.6	B1/500		
BM (30°-60°)	2324.0	22.0	B2/2500		
BH (60°-80°)	2420.7	23.0	B3/2500		G2/5000
BVH (80°-90°)	31.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1125.5	1138.8	1148.4	1147.2	1150.8	1154.4	1149.6	1156.8	1152.0	1160.5	1165.3
5°	1147.2	1143.6	1144.8	1137.6	1154.4	1135.2	1135.2	1144.8	1156.8	1142.4	1150.8
7.5°	1134.0	1131.6	1125.5	1136.4	1140.0	1140.0	1149.6	1131.6	1152.0	1156.8	1158.1
10°	1119.5	1106.3	1124.3	1135.2	1137.6	1118.3	1126.8	1131.6	1125.5	1131.6	1135.2
12.5°	1107.5	1114.7	1114.7	1114.7	1111.1	1124.3	1132.8	1131.6	1119.5	1130.4	1111.1
15°	1106.3	1102.7	1113.5	1123.1	1117.1	1119.5	1123.1	1134.0	1111.1	1115.9	1115.9
17.5°	1105.1	1109.9	1113.5	1112.3	1132.8	1132.8	1129.2	1121.9	1140.0	1130.4	1117.1
20°	1109.9	1106.3	1115.9	1119.5	1134.0	1162.9	1152.0	1146.0	1136.4	1124.3	1124.3
22.5°	1115.9	1113.5	1126.8	1142.4	1170.1	1177.3	1176.1	1168.9	1152.0	1137.6	1135.2
25°	1137.6	1115.9	1130.4	1160.5	1170.1	1184.5	1194.2	1184.5	1161.7	1165.3	1143.6
27.5°	1170.1	1166.5	1185.7	1206.2	1197.8	1211.0	1202.6	1209.8	1211.0	1193.0	1171.3
30°	1208.6	1197.8	1209.8	1249.5	1253.2	1267.6	1253.2	1233.9	1239.9	1224.3	1213.4
32.5°	1264.0	1260.4	1283.2	1309.7	1314.5	1307.3	1300.1	1310.9	1285.7	1273.6	1254.4
35°	1300.1	1315.7	1343.4	1363.9	1379.5	1372.3	1375.9	1365.1	1371.1	1345.8	1337.4
37.5°	1407.2	1401.2	1407.2	1442.1	1445.8	1442.1	1445.8	1457.8	1449.4	1427.7	1406.0
40°	1508.4	1498.7	1513.2	1552.9	1550.5	1562.5	1538.4	1551.7	1551.7	1510.8	1502.3
42.5°	1584.2	1616.7	1633.5	1666.1	1678.1	1667.3	1662.4	1664.8	1691.3	1643.2	1625.1
45°	1740.7	1739.5	1790.0	1808.1	1774.4	1772.0	1762.4	1791.2	1809.3	1781.6	1774.4
47.5°	1910.4	1918.8	1947.7	1955.0	1975.4	1938.1	1938.1	1941.7	2005.5	1940.5	1906.8
50°	2063.3	2074.1	2131.9	2188.5	2150.0	2110.3	2125.9	2145.2	2180.1	2118.7	2089.8
52.5°	2248.7	2307.7	2346.2	2376.3	2404.0	2376.3	2340.2	2361.8	2430.5	2348.6	2312.5
55°	2515.9	2562.9	2599.0	2654.4	2677.2	2639.9	2636.3	2633.9	2672.4	2585.8	2536.4
57.5°	2814.5	2795.2	2853.0	2938.5	3021.5	2985.4	2974.6	2977.0	2986.6	2863.8	2826.5
60°	3185.2	3206.9	3275.5	3350.2	3438.0	3488.6	3417.6	3376.6	3385.1	3217.7	3160.0
62.5°	3397.1	3445.3	3600.5	3857.0	4033.9	4191.6	4202.4	3936.4	3758.2	3433.2	3187.6
65°	3294.8	3287.6	3580.1	4054.4	4724.9	5183.5	5114.9	4469.7	3847.3	3330.9	3001.1
67.5°	2802.4	2783.2	3137.1	3889.5	4997.0	5998.5	5920.3	4620.2	3546.4	2946.9	2573.7
70°	1805.7	1800.9	2184.9	2964.9	4461.3	5507.4	5536.3	4196.4	2886.7	2158.4	1788.8
72.5°	656.1	695.8	918.5	1593.8	3030.0	4213.3	4231.3	3107.0	1660.0	997.9	735.5
75°	242.0	249.2	290.1	517.6	1380.8	2587.0	2654.4	1507.2	589.9	325.0	264.8
77.5°	139.6	140.8	155.3	192.6	409.3	1010.0	1050.9	457.4	228.7	173.3	160.1
80°	95.1	93.9	109.5	125.2	163.7	286.5	304.6	191.4	144.5	120.4	101.1
82.5°	55.4	59.0	80.7	89.1	99.9	126.4	128.8	119.2	108.3	89.1	66.2
85°	33.7	27.7	44.5	49.4	57.8	56.6	56.6	65.0	69.8	62.6	37.3
87.5°	8.4	8.4	10.8	12.0	15.6	12.0	13.2	25.3	33.7	31.3	19.3
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°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1154.4	1150.8	1153.2	1166.5	1158.1	1132.8	1138.8	1152.0	1141.2	1135.2	1134.0
5°	1149.6	1156.8	1148.4	1150.8	1159.3	1138.8	1142.4	1159.3	1152.0	1154.4	1141.2
7.5°	1150.8	1154.4	1147.2	1136.4	1136.4	1153.2	1143.6	1146.0	1135.2	1153.2	1129.2
10°	1143.6	1134.0	1125.5	1131.6	1129.2	1124.3	1120.7	1128.0	1117.1	1132.8	1115.9
12.5°	1121.9	1124.3	1121.9	1119.5	1124.3	1136.4	1117.1	1119.5	1102.7	1105.1	1113.5
15°	1113.5	1120.7	1118.3	1131.6	1137.6	1119.5	1134.0	1119.5	1106.3	1099.1	1112.3
17.5°	1117.1	1128.0	1124.3	1134.0	1123.1	1136.4	1138.8	1132.8	1117.1	1111.1	1117.1
20°	1120.7	1117.1	1121.9	1138.8	1154.4	1141.2	1141.2	1137.6	1123.1	1114.7	1114.7
22.5°	1129.2	1123.1	1130.4	1143.6	1148.4	1168.9	1150.8	1142.4	1118.3	1096.7	1117.1
25°	1146.0	1149.6	1154.4	1149.6	1176.1	1173.7	1171.3	1165.3	1128.0	1129.2	1125.5
27.5°	1178.5	1158.1	1164.1	1193.0	1196.6	1206.2	1194.2	1205.0	1165.3	1166.5	1142.4
30°	1218.2	1196.6	1215.8	1241.1	1239.9	1258.0	1251.9	1254.4	1226.7	1211.0	1178.5
32.5°	1261.6	1259.2	1271.2	1286.9	1292.9	1302.5	1301.3	1301.3	1284.4	1243.5	1249.5
35°	1309.7	1326.6	1341.0	1357.9	1360.3	1372.3	1355.5	1357.9	1341.0	1310.9	1320.6
37.5°	1404.8	1403.6	1419.3	1439.7	1442.1	1432.5	1445.8	1439.7	1416.9	1396.4	1380.8
40°	1515.6	1491.5	1505.9	1554.1	1557.7	1540.9	1539.7	1538.4	1521.6	1477.1	1467.4
42.5°	1611.9	1643.2	1640.8	1656.4	1645.6	1637.2	1667.3	1650.4	1637.2	1590.2	1581.8
45°	1735.9	1745.5	1776.8	1827.4	1775.6	1775.6	1796.1	1782.8	1775.6	1740.7	1708.2
47.5°	1890.0	1898.4	1961.0	1964.6	1930.9	1908.0	1971.8	1974.2	1944.1	1917.6	1877.9
50°	2070.5	2074.1	2130.7	2188.5	2151.2	2107.8	2172.8	2198.1	2130.7	2094.6	2045.2
52.5°	2269.2	2258.3	2305.3	2413.6	2377.5	2364.3	2434.1	2440.1	2348.6	2292.0	2305.3
55°	2497.9	2483.4	2611.0	2684.5	2661.6	2637.5	2668.8	2683.3	2609.8	2517.1	2549.6
57.5°	2794.0	2801.2	2865.0	2937.3	2974.6	2980.6	2995.0	2980.6	2906.0	2812.1	2782.0
60°	3090.1	3111.8	3235.8	3371.8	3383.9	3489.8	3470.5	3398.3	3292.4	3158.8	3164.8
62.5°	3199.7	3181.6	3381.5	3713.7	3996.6	4190.4	4104.9	3848.5	3603.0	3359.8	3377.8
65°	2979.4	3023.9	3296.0	3816.0	4430.0	5196.8	4741.7	4032.7	3536.7	3222.6	3187.6
67.5°	2567.7	2601.4	2946.9	3495.8	4585.3	5815.5	4982.5	3772.7	3119.0	2712.1	2733.8
70°	1788.8	1805.7	2144.0	2863.8	4157.9	5488.1	4495.0	2897.5	2153.6	1716.6	1740.7
72.5°	719.9	760.8	983.5	1725.0	3069.7	4169.9	3026.3	1520.4	893.2	664.5	603.1
75°	266.0	267.2	314.2	593.5	1457.8	2620.7	1365.1	488.7	285.3	233.5	222.7
77.5°	154.1	152.9	163.7	214.3	422.5	1023.2	387.6	191.4	155.3	139.6	133.6
80°	96.3	95.1	112.0	142.0	185.4	280.5	163.7	119.2	104.7	90.3	90.3
82.5°	61.4	62.6	87.9	104.7	113.2	124.0	95.1	84.3	78.2	51.8	50.6
85°	39.7	36.1	61.4	69.8	62.6	55.4	53.0	44.5	40.9	25.3	27.7
87.5°	18.1	19.3	31.3	34.9	22.9	13.2	13.2	9.6	9.6	6.0	6.0
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)