

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: P479478

Luminaire Tested: **IFLD-S-SA2B-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479478  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

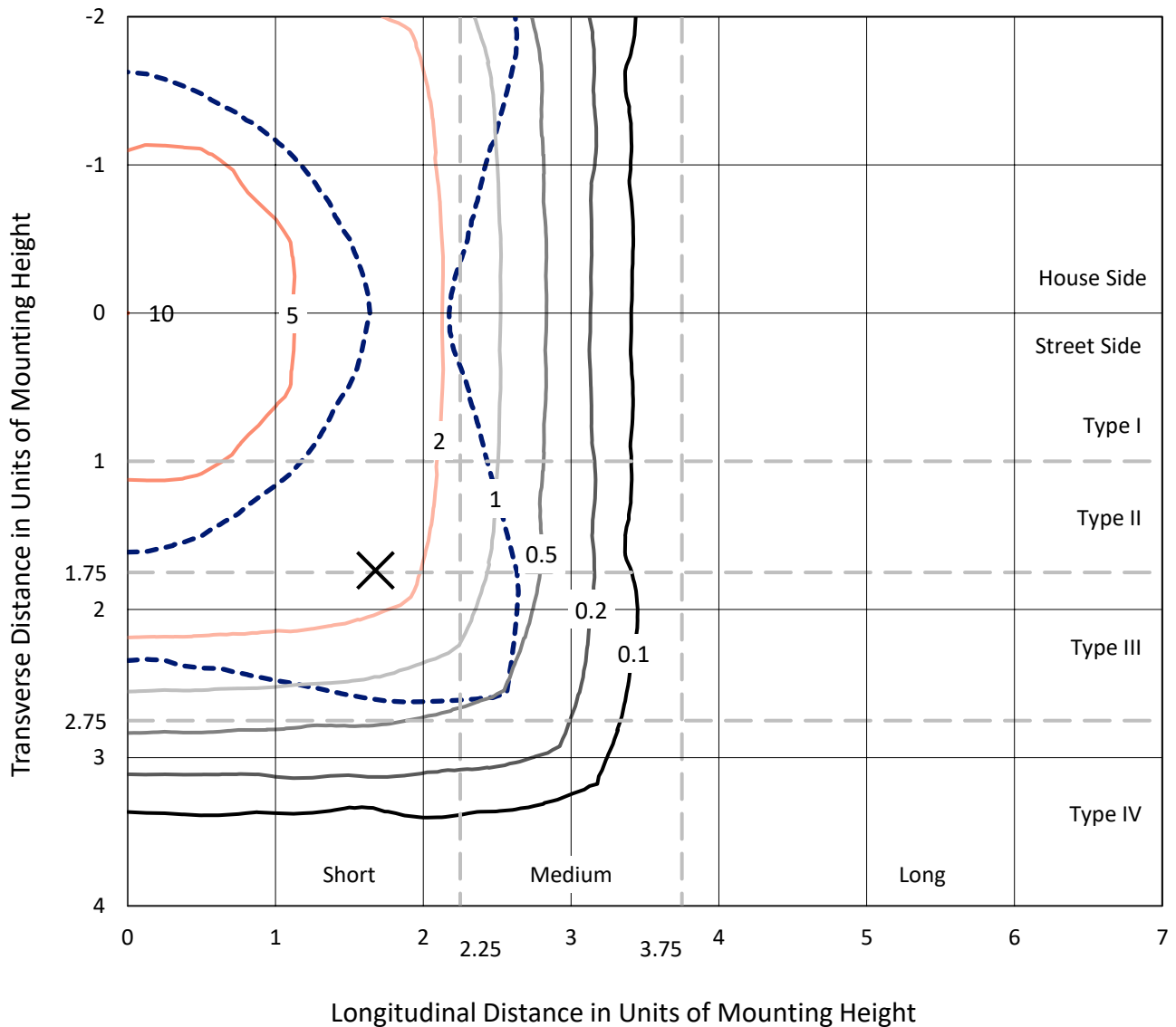
Lumens per Lamp: N/A  
Luminaire Lumens: 9157.9 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 82.4  
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

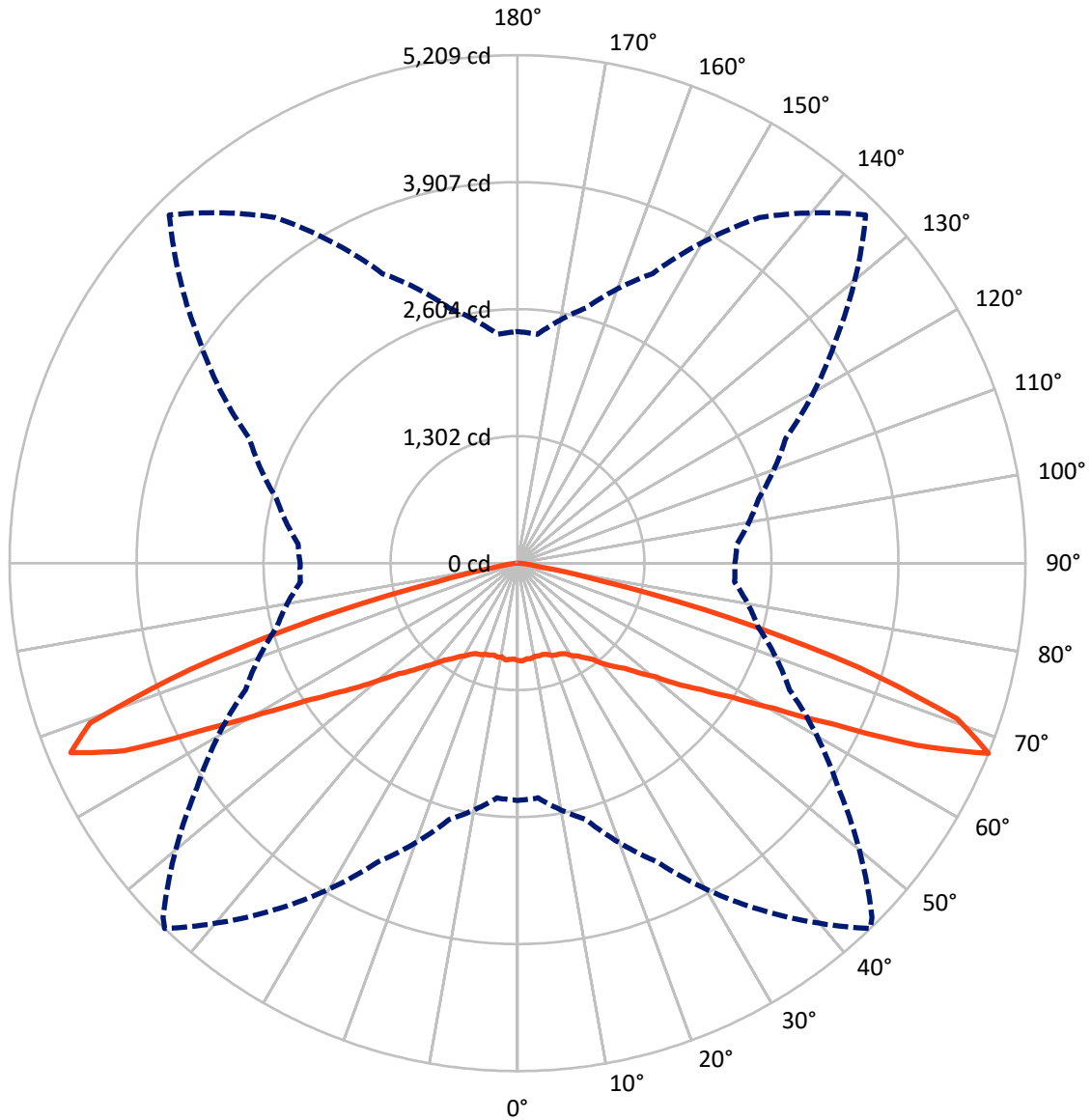
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 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
<b>House Side</b>	Lumens	4567.2	0.0	4567.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	4590.7	0.0	4590.7
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	9157.9	0.0	9157.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	1.0
10°-20°	276.6	3.0
20°-30°	470.3	5.1
30°-40°	745.7	8.1
40°-50°	1215.9	13.3
50°-60°	2076.6	22.7
60°-70°	3158.4	34.5
70°-80°	1064.6	11.6
80°-90°	55.3	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°	9157.9	100.0
0°-180°	9157.9	100.0

**Coefficient of Utilization**



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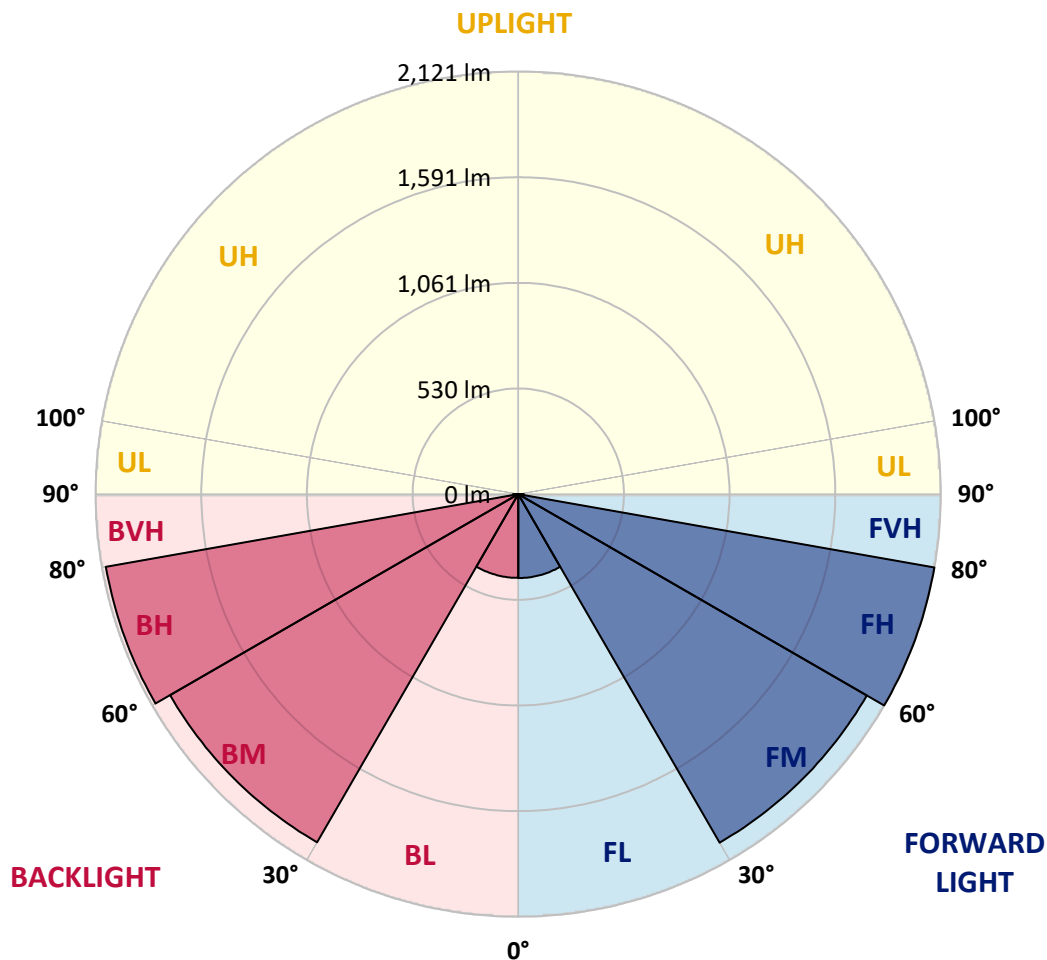
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.2	4.6			
FM (30°-60°)	2020.1	22.1			
FH (60°-80°)	2121.1	23.2			G2/5000
FVH (80°-90°)	28.3	0.3			G1/100
BL (0°-30°)	420.3	4.6	B1/500		
BM (30°-60°)	2018.0	22.0	B2/2500		
BH (60°-80°)	2101.9	23.0	B3/2500		G2/5000
BVH (80°-90°)	27.0	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°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	977.3	988.8	997.2	996.2	999.3	1002.4	998.3	1004.5	1000.3	1007.7	1011.8
5°	996.2	993.0	994.1	987.8	1002.4	985.7	985.7	994.1	1004.5	992.0	999.3
7.5°	984.7	982.6	977.3	986.8	989.9	989.9	998.3	982.6	1000.3	1004.5	1005.6
10°	972.1	960.6	976.3	985.7	987.8	971.1	978.4	982.6	977.3	982.6	985.7
12.5°	961.7	967.9	967.9	967.9	964.8	976.3	983.6	982.6	972.1	981.5	964.8
15°	960.6	957.5	966.9	975.3	970.0	972.1	975.3	984.7	964.8	969.0	969.0
17.5°	959.6	963.8	966.9	965.9	983.6	983.6	980.5	974.2	989.9	981.5	970.0
20°	963.8	960.6	969.0	972.1	984.7	1009.8	1000.3	995.1	986.8	976.3	976.3
22.5°	969.0	966.9	978.4	992.0	1016.0	1022.3	1021.3	1015.0	1000.3	987.8	985.7
25°	987.8	969.0	981.5	1007.7	1016.0	1028.6	1036.9	1028.6	1008.7	1011.8	993.0
27.5°	1016.0	1012.9	1029.6	1047.4	1040.1	1051.6	1044.2	1050.5	1051.6	1035.9	1017.1
30°	1049.5	1040.1	1050.5	1085.0	1088.1	1100.7	1088.1	1071.4	1076.7	1063.1	1053.7
32.5°	1097.6	1094.4	1114.3	1137.3	1141.5	1135.2	1128.9	1138.3	1116.4	1105.9	1089.2
35°	1128.9	1142.5	1166.5	1184.3	1197.9	1191.6	1194.8	1185.4	1190.6	1168.6	1161.3
37.5°	1221.9	1216.7	1221.9	1252.3	1255.4	1252.3	1255.4	1265.8	1258.5	1239.7	1220.9
40°	1309.8	1301.4	1313.9	1348.4	1346.3	1356.8	1335.9	1347.4	1347.4	1311.8	1304.5
42.5°	1375.6	1403.8	1418.5	1446.7	1457.1	1447.7	1443.5	1445.6	1468.6	1426.8	1411.1
45°	1511.5	1510.4	1554.4	1570.0	1540.8	1538.7	1530.3	1555.4	1571.1	1547.0	1540.8
47.5°	1658.9	1666.2	1691.3	1697.6	1715.3	1682.9	1682.9	1686.1	1741.5	1685.0	1655.7
50°	1791.6	1801.0	1851.2	1900.3	1866.9	1832.4	1846.0	1862.7	1893.0	1839.7	1814.6
52.5°	1952.6	2003.8	2037.3	2063.4	2087.4	2063.4	2032.0	2050.9	2110.4	2039.4	2008.0
55°	2184.7	2225.4	2256.8	2304.9	2324.7	2292.3	2289.2	2287.1	2320.5	2245.3	2202.4
57.5°	2443.9	2427.2	2477.3	2551.6	2623.7	2592.3	2582.9	2585.0	2593.4	2486.8	2454.3
60°	2765.8	2784.7	2844.2	2909.0	2985.4	3029.3	2967.6	2932.0	2939.4	2794.1	2743.9
62.5°	2949.8	2991.6	3126.5	3349.1	3502.8	3639.7	3649.1	3418.1	3263.4	2981.2	2767.9
65°	2861.0	2854.7	3108.7	3520.5	4102.8	4501.0	4441.4	3881.2	3340.8	2892.3	2605.9
67.5°	2433.4	2416.7	2724.0	3377.3	4339.0	5208.7	5140.7	4011.8	3079.4	2558.9	2234.8
70°	1567.9	1563.8	1897.2	2574.6	3873.9	4782.2	4807.3	3643.9	2506.6	1874.2	1553.3
72.5°	569.7	604.2	797.6	1384.0	2631.0	3658.5	3674.2	2697.9	1441.5	866.5	638.7
75°	210.1	216.4	251.9	449.5	1199.0	2246.3	2304.9	1308.7	512.2	282.2	230.0
77.5°	121.3	122.3	134.8	167.2	355.4	877.0	912.5	397.2	198.6	150.5	139.0
80°	82.6	81.5	95.1	108.7	142.2	248.8	264.5	166.2	125.4	104.5	87.8
82.5°	48.1	51.2	70.0	77.4	86.8	109.8	111.8	103.5	94.1	77.4	57.5
85°	29.3	24.0	38.7	42.9	50.2	49.1	49.1	56.4	60.6	54.4	32.4
87.5°	7.3	7.3	9.4	10.5	13.6	10.5	11.5	22.0	29.3	27.2	16.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	1002.4	999.3	1001.4	1012.9	1005.6	983.6	988.8	1000.3	990.9	985.7	984.7
5°	998.3	1004.5	997.2	999.3	1006.6	988.8	992.0	1006.6	1000.3	1002.4	990.9
7.5°	999.3	1002.4	996.2	986.8	986.8	1001.4	993.0	995.1	985.7	1001.4	980.5
10°	993.0	984.7	977.3	982.6	980.5	976.3	973.2	979.4	970.0	983.6	969.0
12.5°	974.2	976.3	974.2	972.1	976.3	986.8	970.0	972.1	957.5	959.6	966.9
15°	966.9	973.2	971.1	982.6	987.8	972.1	984.7	972.1	960.6	954.4	965.9
17.5°	970.0	979.4	976.3	984.7	975.3	986.8	988.8	983.6	970.0	964.8	970.0
20°	973.2	970.0	974.2	988.8	1002.4	990.9	990.9	987.8	975.3	967.9	967.9
22.5°	980.5	975.3	981.5	993.0	997.2	1015.0	999.3	992.0	971.1	952.3	970.0
25°	995.1	998.3	1002.4	998.3	1021.3	1019.2	1017.1	1011.8	979.4	980.5	977.3
27.5°	1023.3	1005.6	1010.8	1035.9	1039.0	1047.4	1036.9	1046.3	1011.8	1012.9	992.0
30°	1057.8	1039.0	1055.7	1077.7	1076.7	1092.3	1087.1	1089.2	1065.2	1051.6	1023.3
32.5°	1095.5	1093.4	1103.8	1117.4	1122.6	1131.0	1130.0	1130.0	1115.3	1079.8	1085.0
35°	1137.3	1151.9	1164.5	1179.1	1181.2	1191.6	1177.0	1179.1	1164.5	1138.3	1146.7
37.5°	1219.9	1218.8	1232.4	1250.2	1252.3	1243.9	1255.4	1250.2	1230.3	1212.5	1199.0
40°	1316.0	1295.1	1307.7	1349.5	1352.6	1338.0	1336.9	1335.9	1321.2	1282.6	1274.2
42.5°	1399.6	1426.8	1424.7	1438.3	1428.9	1421.6	1447.7	1433.1	1421.6	1380.8	1373.5
45°	1507.3	1515.7	1542.9	1586.8	1541.8	1541.8	1559.6	1548.1	1541.8	1511.5	1483.3
47.5°	1641.1	1648.4	1702.8	1705.9	1676.6	1656.8	1712.2	1714.3	1688.1	1665.2	1630.7
50°	1797.9	1801.0	1850.2	1900.3	1867.9	1830.3	1886.8	1908.7	1850.2	1818.8	1776.0
52.5°	1970.4	1961.0	2001.7	2095.8	2064.5	2053.0	2113.6	2118.8	2039.4	1990.2	2001.7
55°	2169.0	2156.4	2267.2	2331.0	2311.1	2290.2	2317.4	2330.0	2266.2	2185.7	2213.9
57.5°	2426.1	2432.4	2487.8	2550.5	2582.9	2588.1	2600.7	2588.1	2523.3	2441.8	2415.7
60°	2683.3	2702.1	2809.7	2927.9	2938.3	3030.3	3013.6	2950.9	2858.9	2742.8	2748.1
62.5°	2778.4	2762.7	2936.2	3224.7	3470.4	3638.7	3564.4	3341.8	3128.6	2917.4	2933.1
65°	2587.1	2625.8	2862.0	3313.6	3846.7	4512.5	4117.4	3501.7	3071.1	2798.2	2767.9
67.5°	2229.6	2258.9	2558.9	3035.5	3981.5	5049.8	4326.5	3275.9	2708.4	2355.0	2373.9
70°	1553.3	1567.9	1861.7	2486.8	3610.4	4765.5	3903.1	2516.0	1870.0	1490.6	1511.5
72.5°	625.1	660.6	854.0	1497.9	2665.5	3620.9	2627.9	1320.2	775.6	577.0	523.7
75°	231.0	232.1	272.8	515.3	1265.8	2275.6	1185.4	424.4	247.7	202.8	193.4
77.5°	133.8	132.8	142.2	186.1	366.9	888.5	336.6	166.2	134.8	121.3	116.0
80°	83.6	82.6	97.2	123.3	161.0	243.6	142.2	103.5	90.9	78.4	78.4
82.5°	53.3	54.4	76.3	90.9	98.3	107.7	82.6	73.2	67.9	44.9	43.9
85°	34.5	31.4	53.3	60.6	54.4	48.1	46.0	38.7	35.5	22.0	24.0
87.5°	15.7	16.7	27.2	30.3	19.9	11.5	11.5	8.4	8.4	5.2	5.2
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)