

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: P479439

Luminaire Tested: **IFLD-S-SA2B-827-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479439  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-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**

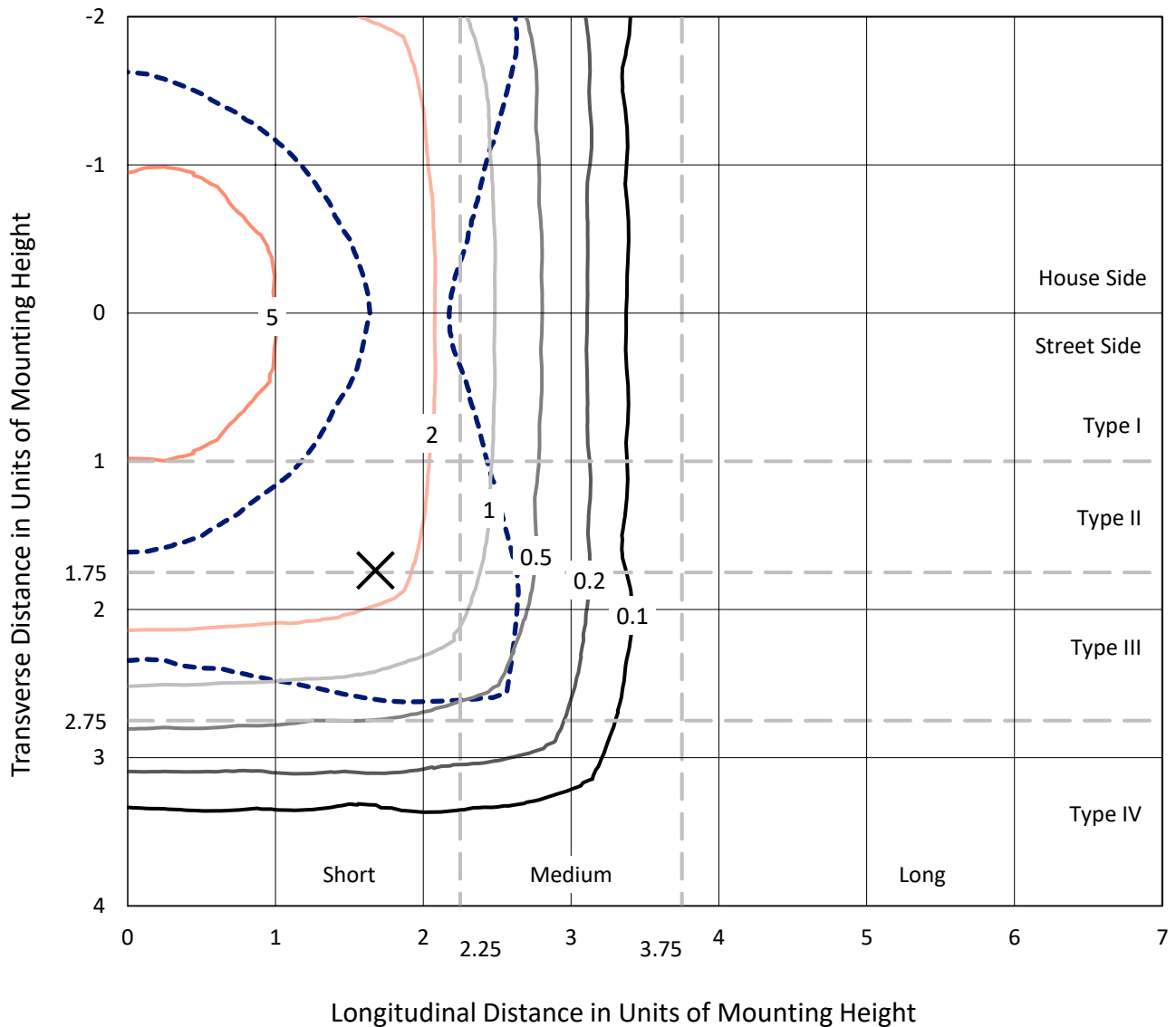
Lumens per Lamp: N/A  
Luminaire Lumens: 8472.2 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

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

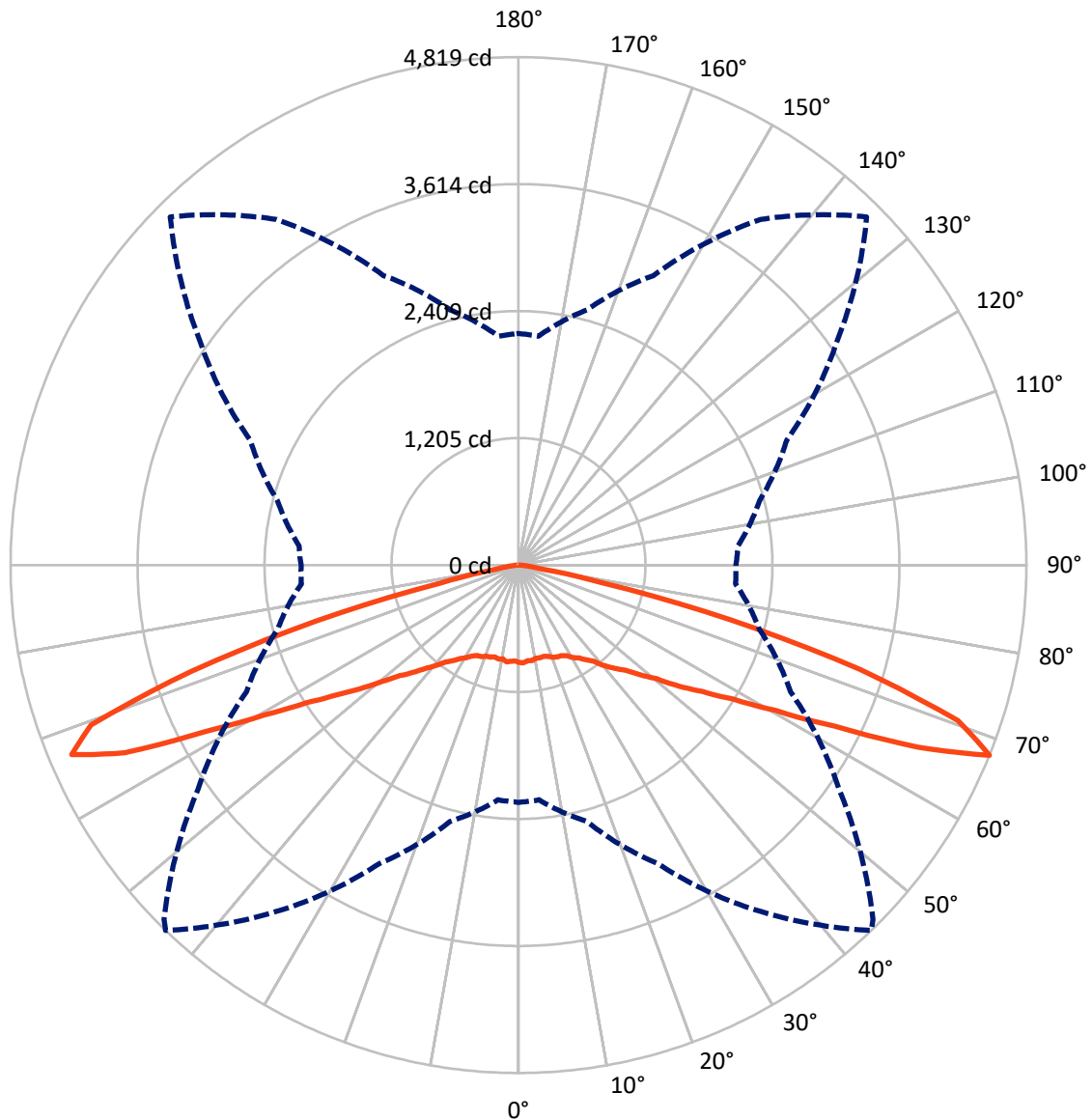
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 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
<b>House Side</b>	Lumens	4225.2	0.0	4225.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	4246.9	0.0	4246.9
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	8472.2	0.0	8472.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.6	1.0
10°-20°	255.8	3.0
20°-30°	435.1	5.1
30°-40°	689.8	8.1
40°-50°	1124.8	13.3
50°-60°	1921.1	22.7
60°-70°	2921.9	34.5
70°-80°	984.9	11.6
80°-90°	51.1	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°	8472.2	100.0
0°-180°	8472.2	100.0

**Coefficient of Utilization**



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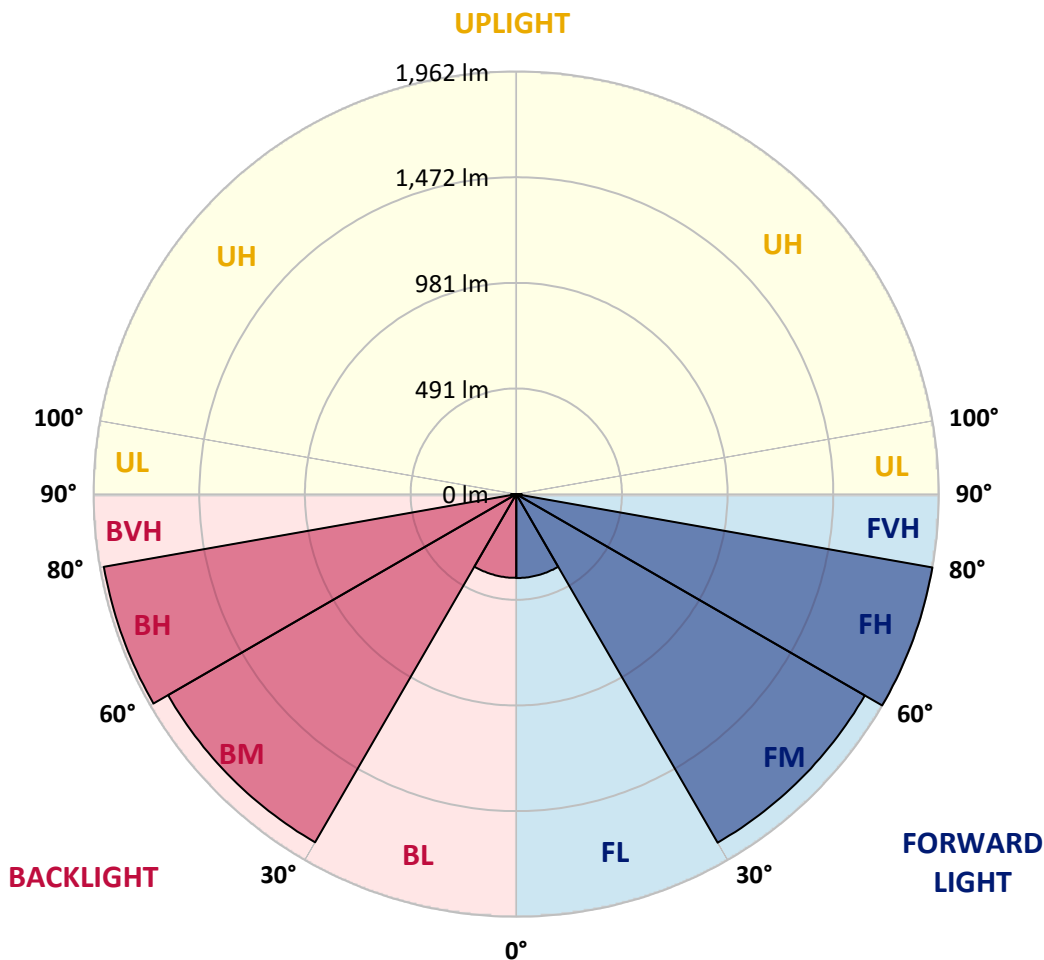
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.6	4.6			
FM (30°-60°)	1868.9	22.1			
FH (60°-80°)	1962.2	23.2			G2/5000
FVH (80°-90°)	26.2	0.3			G1/100
BL (0°-30°)	388.9	4.6	B1/500		
BM (30°-60°)	1866.9	22.0	B2/2500		
BH (60°-80°)	1944.6	23.0	B3/2500		G2/5000
BVH (80°-90°)	25.0	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°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	904.2	914.8	922.5	921.6	924.5	927.4	923.5	929.3	925.4	932.2	936.1
5°	921.6	918.7	919.6	913.8	927.4	911.9	911.9	919.6	929.3	917.7	924.5
7.5°	910.9	909.0	904.2	912.9	915.8	915.8	923.5	909.0	925.4	929.3	930.3
10°	899.3	888.7	903.2	911.9	913.8	898.4	905.1	909.0	904.2	909.0	911.9
12.5°	889.7	895.5	895.5	895.5	892.6	903.2	910.0	909.0	899.3	908.0	892.6
15°	888.7	885.8	894.5	902.2	897.4	899.3	902.2	910.9	892.6	896.4	896.4
17.5°	887.7	891.6	894.5	893.5	910.0	910.0	907.1	901.3	915.8	908.0	897.4
20°	891.6	888.7	896.4	899.3	910.9	934.1	925.4	920.6	912.9	903.2	903.2
22.5°	896.4	894.5	905.1	917.7	939.9	945.7	944.8	939.0	925.4	913.8	911.9
25°	913.8	896.4	908.0	932.2	939.9	951.5	959.3	951.5	933.2	936.1	918.7
27.5°	939.9	937.0	952.5	969.0	962.2	972.8	966.1	971.9	972.8	958.3	940.9
30°	970.9	962.2	971.9	1003.8	1006.7	1018.3	1006.7	991.2	996.0	983.5	974.8
32.5°	1015.4	1012.5	1030.8	1052.1	1056.0	1050.2	1044.4	1053.1	1032.8	1023.1	1007.6
35°	1044.4	1057.0	1079.2	1095.6	1108.2	1102.4	1105.3	1096.6	1101.4	1081.1	1074.4
37.5°	1130.4	1125.6	1130.4	1158.5	1161.4	1158.5	1161.4	1171.1	1164.3	1146.9	1129.5
40°	1211.7	1203.9	1215.5	1247.5	1245.5	1255.2	1235.9	1246.5	1246.5	1213.6	1206.8
42.5°	1272.6	1298.7	1312.2	1338.4	1348.0	1339.3	1335.5	1337.4	1358.7	1320.0	1305.5
45°	1398.3	1397.3	1438.0	1452.5	1425.4	1423.5	1415.7	1438.9	1453.4	1431.2	1425.4
47.5°	1534.7	1541.4	1564.6	1570.4	1586.9	1556.9	1556.9	1559.8	1611.1	1558.8	1531.8
50°	1657.5	1666.2	1712.6	1758.0	1727.1	1695.2	1707.8	1723.2	1751.3	1702.0	1678.7
52.5°	1806.4	1853.8	1884.7	1908.9	1931.1	1908.9	1879.9	1897.3	1952.4	1886.7	1857.6
55°	2021.1	2058.8	2087.8	2132.3	2150.7	2120.7	2117.8	2115.8	2146.8	2077.2	2037.5
57.5°	2260.9	2245.4	2291.8	2360.5	2427.2	2398.2	2389.5	2391.4	2399.2	2300.5	2270.6
60°	2558.7	2576.1	2631.3	2691.2	2761.8	2802.4	2745.4	2712.5	2719.3	2584.8	2538.4
62.5°	2728.9	2767.6	2892.4	3098.3	3240.5	3367.2	3375.9	3162.2	3019.0	2757.9	2560.7
65°	2646.7	2640.9	2875.9	3256.9	3795.6	4164.0	4108.9	3590.5	3090.6	2675.7	2410.8
67.5°	2251.2	2235.8	2520.1	3124.4	4014.1	4818.7	4755.8	3711.4	2848.8	2367.3	2067.5
70°	1450.5	1446.7	1755.1	2381.8	3583.8	4424.1	4447.3	3371.0	2318.9	1733.9	1437.0
72.5°	527.0	558.9	737.8	1280.3	2434.0	3384.6	3399.1	2495.9	1333.5	801.7	590.8
75°	194.4	200.2	233.1	415.8	1109.2	2078.1	2132.3	1210.7	473.8	261.1	212.7
77.5°	112.2	113.1	124.7	154.7	328.8	811.3	844.2	367.5	183.7	139.3	128.6
80°	76.4	75.4	88.0	100.6	131.5	230.2	244.7	153.8	116.0	96.7	81.2
82.5°	44.5	47.4	64.8	71.6	80.3	101.5	103.5	95.7	87.0	71.6	53.2
85°	27.1	22.2	35.8	39.6	46.4	45.4	45.4	52.2	56.1	50.3	30.0
87.5°	6.8	6.8	8.7	9.7	12.6	9.7	10.6	20.3	27.1	25.1	15.5
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°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	927.4	924.5	926.4	937.0	930.3	910.0	914.8	925.4	916.7	911.9	910.9
5°	923.5	929.3	922.5	924.5	931.2	914.8	917.7	931.2	925.4	927.4	916.7
7.5°	924.5	927.4	921.6	912.9	912.9	926.4	918.7	920.6	911.9	926.4	907.1
10°	918.7	910.9	904.2	909.0	907.1	903.2	900.3	906.1	897.4	910.0	896.4
12.5°	901.3	903.2	901.3	899.3	903.2	912.9	897.4	899.3	885.8	887.7	894.5
15°	894.5	900.3	898.4	909.0	913.8	899.3	910.9	899.3	888.7	882.9	893.5
17.5°	897.4	906.1	903.2	910.9	902.2	912.9	914.8	910.0	897.4	892.6	897.4
20°	900.3	897.4	901.3	914.8	927.4	916.7	916.7	913.8	902.2	895.5	895.5
22.5°	907.1	902.2	908.0	918.7	922.5	939.0	924.5	917.7	898.4	881.0	897.4
25°	920.6	923.5	927.4	923.5	944.8	942.8	940.9	936.1	906.1	907.1	904.2
27.5°	946.7	930.3	935.1	958.3	961.2	969.0	959.3	968.0	936.1	937.0	917.7
30°	978.6	961.2	976.7	997.0	996.0	1010.5	1005.7	1007.6	985.4	972.8	946.7
32.5°	1013.4	1011.5	1021.2	1033.7	1038.6	1046.3	1045.3	1045.3	1031.8	998.9	1003.8
35°	1052.1	1065.7	1077.3	1090.8	1092.7	1102.4	1088.9	1090.8	1077.3	1053.1	1060.8
37.5°	1128.5	1127.5	1140.1	1156.6	1158.5	1150.8	1161.4	1156.6	1138.2	1121.7	1109.2
40°	1217.5	1198.1	1209.7	1248.4	1251.3	1237.8	1236.8	1235.9	1222.3	1186.5	1178.8
42.5°	1294.8	1320.0	1318.0	1330.6	1321.9	1315.1	1339.3	1325.8	1315.1	1277.4	1270.7
45°	1394.4	1402.2	1427.3	1467.9	1426.4	1426.4	1442.8	1432.2	1426.4	1398.3	1372.2
47.5°	1518.2	1525.0	1575.3	1578.2	1551.1	1532.7	1584.0	1585.9	1561.7	1540.5	1508.6
50°	1663.3	1666.2	1711.6	1758.0	1728.1	1693.3	1745.5	1765.8	1711.6	1682.6	1643.0
52.5°	1822.8	1814.1	1851.8	1938.9	1909.9	1899.2	1955.3	1960.2	1886.7	1841.2	1851.8
55°	2006.6	1995.0	2097.5	2156.5	2138.1	2118.7	2143.9	2155.5	2096.5	2022.0	2048.1
57.5°	2244.5	2250.3	2301.5	2359.5	2389.5	2394.3	2405.9	2394.3	2334.4	2259.0	2234.8
60°	2482.3	2499.7	2599.4	2708.6	2718.3	2803.4	2787.9	2729.9	2644.8	2537.5	2542.3
62.5°	2570.3	2555.8	2716.4	2983.3	3210.5	3366.2	3297.5	3091.6	2894.3	2699.0	2713.5
65°	2393.4	2429.2	2647.7	3065.5	3558.6	4174.6	3809.1	3239.5	2841.1	2588.7	2560.7
67.5°	2062.7	2089.7	2367.3	2808.2	3683.4	4671.7	4002.5	3030.6	2505.6	2178.7	2196.1
70°	1437.0	1450.5	1722.3	2300.5	3340.1	4408.6	3610.9	2327.6	1730.0	1379.0	1398.3
72.5°	578.3	611.2	790.1	1385.7	2465.9	3349.8	2431.1	1221.3	717.5	533.8	484.5
75°	213.7	214.7	252.4	476.7	1171.1	2105.2	1096.6	392.6	229.2	187.6	178.9
77.5°	123.8	122.8	131.5	172.1	339.4	822.0	311.4	153.8	124.7	112.2	107.3
80°	77.4	76.4	89.9	114.1	148.9	225.3	131.5	95.7	84.1	72.5	72.5
82.5°	49.3	50.3	70.6	84.1	90.9	99.6	76.4	67.7	62.9	41.6	40.6
85°	31.9	29.0	49.3	56.1	50.3	44.5	42.5	35.8	32.9	20.3	22.2
87.5°	14.5	15.5	25.1	28.0	18.4	10.6	10.6	7.7	7.7	4.8	4.8
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)