

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: P198487

Luminaire Tested: **XNV2-AF-02-LED-U-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV2-AF-02-LED-U-5MQ-7030  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11368 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 111  
Input Voltage (V): NR  
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: 28.75 FT

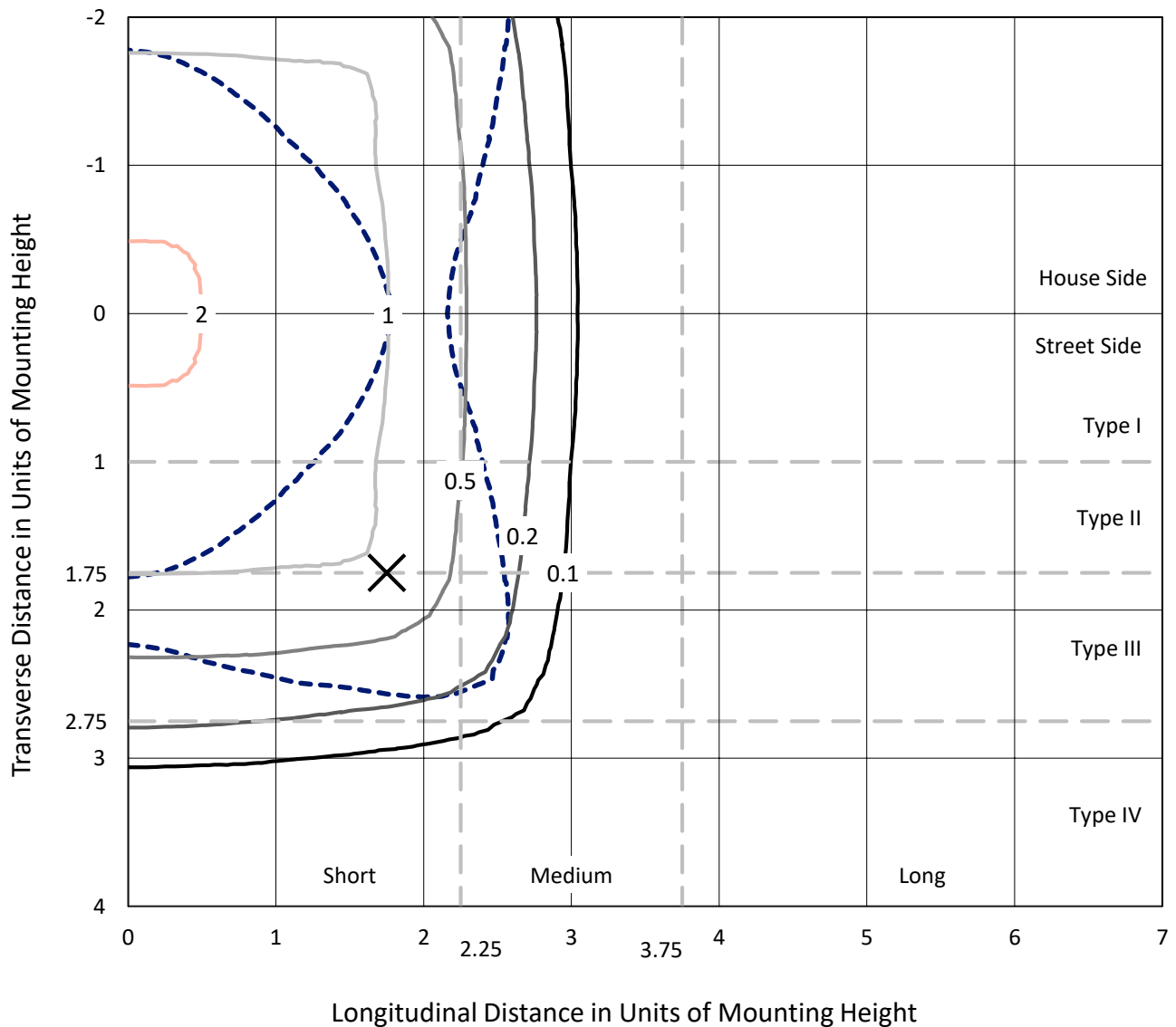


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

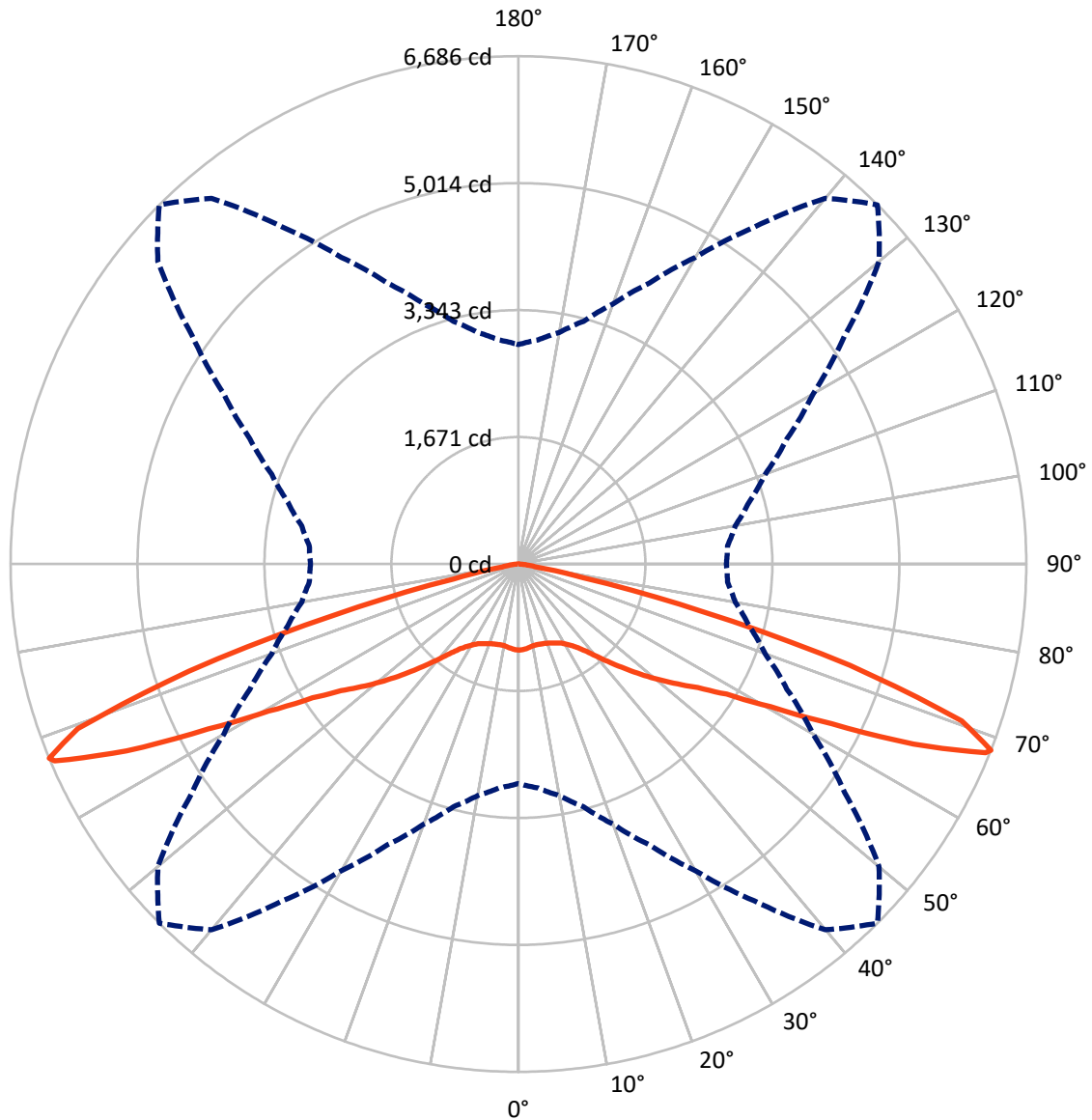


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5684.0	0.0	5684.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5684.0	0.0	5684.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11368.0	0.0	11368.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	0.9
10°-20°	307.7	2.7
20°-30°	523.2	4.6
30°-40°	856.2	7.5
40°-50°	1530.1	13.5
50°-60°	2584.1	22.7
60°-70°	4007.1	35.2
70°-80°	1377.7	12.1
80°-90°	75.7	0.7
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°	11368.0	100.0
0°-180°	11368.0	100.0



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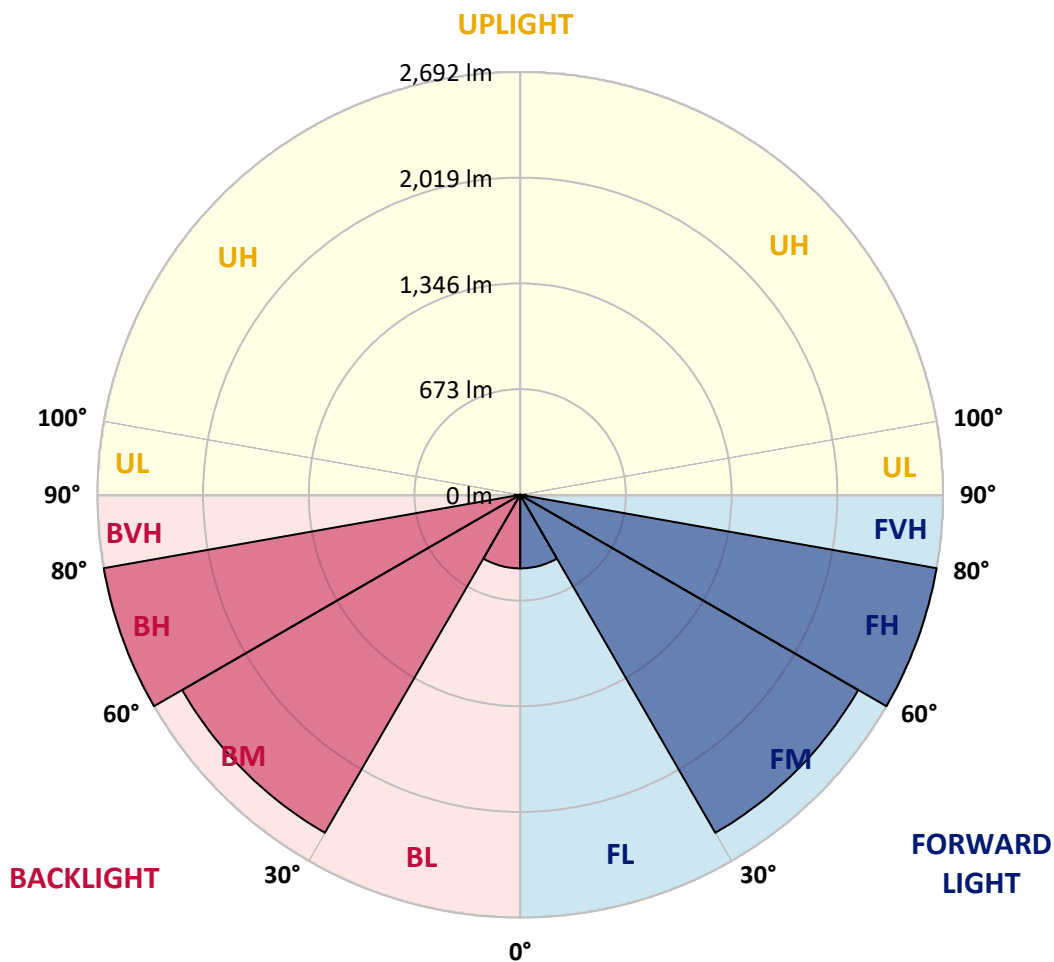
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.5	4.1			
FM	(30°-60°)	2485.2	21.9			
FH	(60°-80°)	2692.4	23.7			G2/5000
FVH	(80°-90°)	37.9	0.3			G1/100
BL	(0°-30°)	468.5	4.1	B1/500		
BM	(30°-60°)	2485.2	21.9	B2/2500		
BH	(60°-80°)	2692.4	23.7	B4/5000		G2/5000
BVH	(80°-90°)	37.9	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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1138.9	1138.9	1140.3	1139.6	1137.5	1135.4	1133.3	1131.2	1129.8	1128.4	1127.0
5°	1127.0	1127.0	1129.1	1127.7	1126.3	1124.2	1122.9	1120.8	1119.4	1118.0	1118.7
7.5°	1111.7	1113.1	1114.5	1113.8	1111.0	1110.3	1108.2	1107.5	1106.1	1104.1	1104.8
10°	1098.5	1099.2	1100.6	1099.9	1099.2	1097.1	1096.4	1095.7	1095.0	1092.2	1091.5
12.5°	1085.3	1086.7	1088.0	1088.7	1088.0	1088.7	1089.4	1090.1	1089.4	1088.0	1088.0
15°	1074.8	1076.2	1078.3	1080.4	1081.1	1085.3	1088.0	1090.8	1092.9	1093.6	1091.5
17.5°	1069.3	1071.3	1074.1	1078.3	1081.8	1086.7	1091.5	1095.7	1099.2	1099.9	1097.8
20°	1068.6	1070.6	1074.8	1079.7	1086.0	1092.2	1099.9	1106.1	1109.6	1111.7	1109.6
22.5°	1073.4	1076.2	1081.8	1088.0	1095.7	1104.1	1113.8	1120.8	1127.7	1130.5	1128.4
25°	1087.4	1090.1	1096.4	1104.1	1112.4	1122.9	1132.6	1141.6	1148.6	1152.1	1149.3
27.5°	1116.6	1117.3	1124.2	1132.6	1142.3	1151.4	1163.9	1168.1	1173.7	1177.2	1173.7
30°	1157.7	1159.1	1165.3	1178.5	1187.6	1199.4	1206.4	1210.6	1216.8	1220.3	1216.1
32.5°	1220.3	1221.7	1227.3	1239.8	1248.2	1257.2	1265.6	1268.3	1274.6	1278.8	1273.9
35°	1308.7	1311.5	1316.4	1324.7	1331.7	1338.7	1344.9	1342.8	1347.0	1352.6	1347.7
37.5°	1429.8	1429.1	1430.5	1436.8	1443.8	1447.9	1457.7	1452.8	1457.0	1461.9	1459.1
40°	1571.2	1571.2	1570.5	1581.6	1584.4	1588.6	1599.0	1592.7	1598.3	1603.9	1599.0
42.5°	1732.0	1734.7	1738.2	1747.3	1754.9	1756.3	1761.2	1758.4	1765.4	1770.3	1765.4
45°	1917.1	1921.3	1925.5	1946.4	1949.9	1952.6	1956.1	1947.1	1954.7	1958.9	1957.5
47.5°	2109.3	2116.9	2126.0	2147.6	2161.5	2167.7	2170.5	2160.1	2160.8	2167.0	2167.7
50°	2326.5	2334.8	2343.9	2368.2	2381.5	2392.6	2396.1	2384.2	2385.6	2390.5	2391.9
52.5°	2526.9	2536.7	2556.2	2588.9	2607.7	2627.2	2628.6	2614.0	2620.2	2623.7	2620.9
55°	2715.6	2728.1	2753.9	2797.7	2831.8	2870.1	2887.5	2871.5	2871.5	2868.7	2867.3
57.5°	2935.6	2949.5	2975.9	3026.8	3074.1	3129.1	3176.4	3192.4	3221.7	3231.4	3216.1
60°	3266.9	3281.5	3308.7	3375.5	3435.4	3515.4	3593.4	3656.8	3759.8	3815.5	3765.4
62.5°	3569.7	3592.0	3656.1	3773.0	3902.5	4050.8	4222.7	4345.2	4532.5	4625.8	4499.8
65°	3500.8	3546.1	3671.4	3855.2	4122.5	4444.1	4794.2	5130.5	5517.5	5715.9	5459.7
67.5°	3058.1	3096.4	3231.4	3445.1	3778.6	4222.0	4766.4	5462.5	6261.0	6632.7	6179.5
68°	2888.9	2960.6	3095.0	3307.3	3643.5	4079.3	4660.6	5412.4	6283.9	6685.6	6196.2
70°	2215.1	2240.8	2369.6	2560.4	2923.0	3350.5	3937.3	4794.2	5779.3	6192.8	5689.5
72.5°	1052.5	1067.9	1151.4	1339.3	1569.8	1917.8	2435.8	3244.0	4131.5	4561.7	4059.8
75°	385.7	389.1	408.6	453.2	539.5	670.4	918.9	1421.5	2104.4	2509.5	2112.7
77.5°	208.1	208.8	216.5	227.6	242.9	260.4	297.9	399.6	644.6	877.1	680.8
80°	130.9	130.2	137.8	146.9	157.3	165.7	169.2	181.0	204.0	238.8	219.3
82.5°	66.8	73.1	90.5	100.2	115.6	118.3	114.9	114.2	121.1	130.9	135.0
85°	36.9	32.7	48.0	64.0	69.6	71.7	72.4	68.2	66.8	65.4	68.9
87.5°	18.8	17.4	20.9	32.0	34.1	27.8	28.5	24.4	16.7	16.7	17.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1125.6	1126.3	1124.9	1124.9	1124.9	1125.6	1124.9	1124.2
5°	1116.6	1118.0	1118.0	1118.7	1119.4	1119.4	1119.4	1119.4
7.5°	1103.4	1104.1	1105.5	1105.5	1105.5	1105.5	1105.5	1105.5
10°	1090.8	1089.4	1088.7	1087.4	1087.4	1085.3	1086.0	1086.7
12.5°	1084.6	1081.8	1080.4	1078.3	1076.9	1074.8	1074.8	1075.5
15°	1087.4	1083.2	1079.0	1077.6	1076.2	1074.8	1073.4	1074.1
17.5°	1092.9	1088.0	1083.2	1080.4	1077.6	1075.5	1074.8	1075.5
20°	1104.8	1097.8	1090.1	1085.3	1079.7	1078.3	1076.2	1078.3
22.5°	1120.8	1112.4	1102.7	1093.6	1087.4	1084.6	1081.8	1083.9
25°	1140.3	1131.2	1121.5	1111.0	1104.1	1102.0	1098.5	1098.5
27.5°	1167.4	1159.7	1151.4	1141.6	1134.7	1132.6	1127.0	1127.0
30°	1210.6	1202.9	1195.3	1186.9	1179.9	1177.8	1170.9	1170.9
32.5°	1267.6	1259.3	1254.4	1247.5	1241.9	1238.4	1230.1	1229.4
35°	1344.2	1336.6	1335.9	1331.0	1325.4	1326.1	1317.8	1316.4
37.5°	1454.2	1447.9	1450.0	1445.9	1441.0	1445.2	1440.3	1440.3
40°	1594.8	1592.7	1594.8	1592.0	1592.7	1593.4	1589.3	1590.7
42.5°	1764.7	1759.1	1771.6	1770.3	1768.2	1773.7	1764.0	1757.0
45°	1960.3	1958.2	1970.7	1972.8	1968.6	1972.1	1954.7	1954.0
47.5°	2172.6	2172.6	2183.8	2182.4	2178.2	2178.9	2158.0	2144.8
50°	2394.0	2392.6	2403.7	2400.9	2395.4	2394.7	2373.1	2359.9
52.5°	2624.4	2624.4	2640.4	2632.8	2619.5	2613.3	2586.8	2569.4
55°	2879.2	2875.7	2880.6	2855.5	2829.8	2811.0	2778.2	2765.0
57.5°	3201.5	3161.1	3126.3	3094.3	3058.1	3035.8	2997.5	2983.6
60°	3658.8	3550.9	3504.3	3440.3	3380.4	3350.5	3299.6	3272.5
62.5°	4292.3	4113.4	3986.7	3845.4	3709.0	3612.9	3535.6	3501.5
65°	5024.6	4634.8	4312.5	4009.7	3752.8	3548.9	3435.4	3399.9
67.5°	5303.1	4587.5	4031.3	3596.9	3285.0	3042.1	2906.3	2877.8
68°	5243.9	4478.9	3901.1	3456.3	3143.0	2898.0	2762.9	2737.2
70°	4625.8	3778.6	3168.8	2726.0	2433.7	2200.5	2105.1	2064.0
72.5°	3153.5	2426.7	1861.4	1489.0	1270.4	1122.9	1035.1	1005.2
75°	1451.4	980.8	655.1	489.4	415.6	380.1	352.9	346.0
77.5°	423.2	307.7	264.5	245.0	230.4	217.9	208.8	208.1
80°	201.2	188.7	183.1	170.6	157.3	145.5	137.1	138.5
82.5°	135.0	131.6	131.6	119.0	98.2	84.2	69.6	62.7
85°	71.7	74.5	78.7	74.5	64.7	48.0	31.3	34.1
87.5°	24.4	27.8	29.2	28.5	25.8	19.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)