

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: P199129

Luminaire Tested: **XNV2-AF-02-LED-U-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199129
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-8030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11496 lumens
Efficiency: N/A
Efficacy: 89.8 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): 128
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

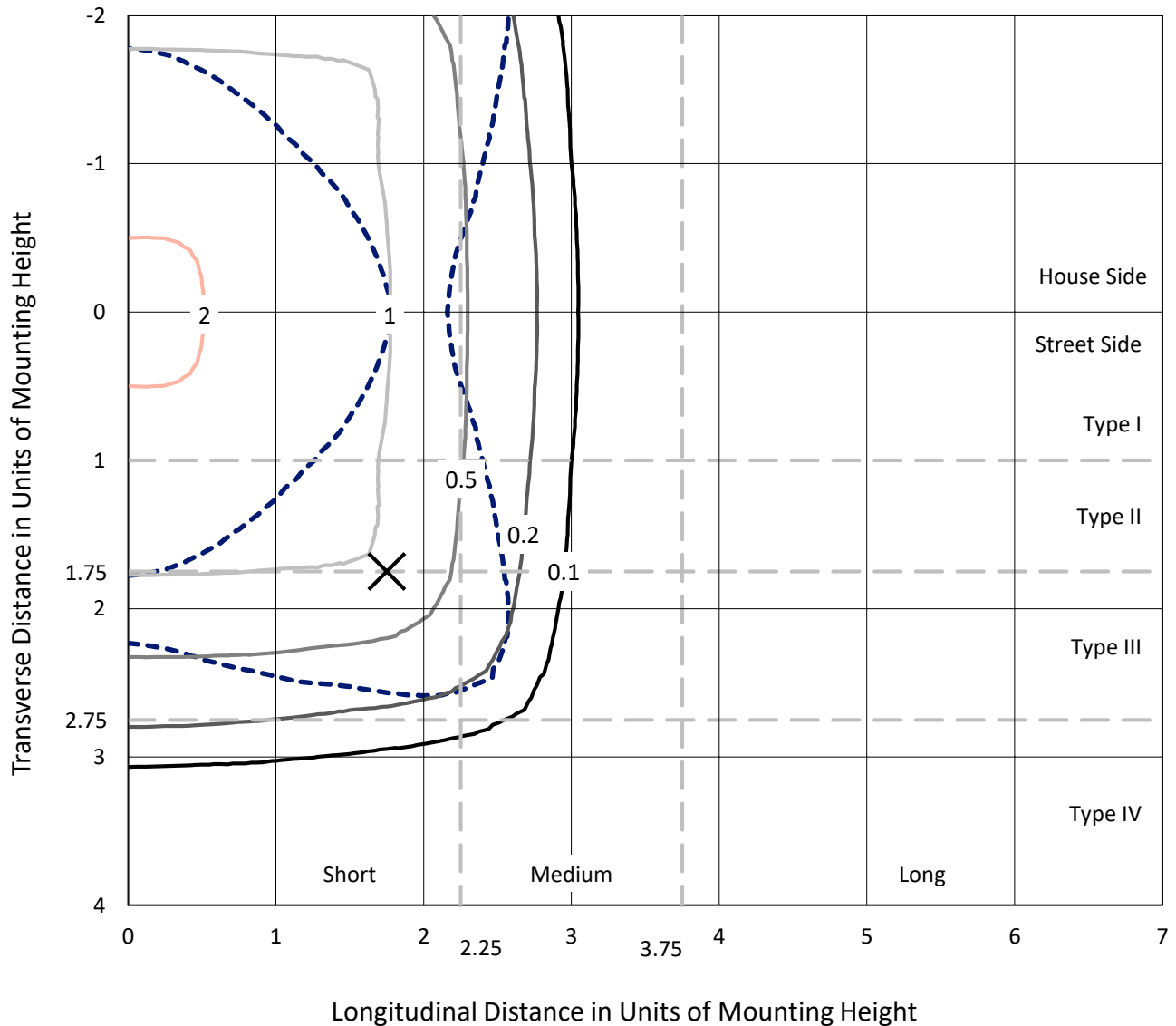


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

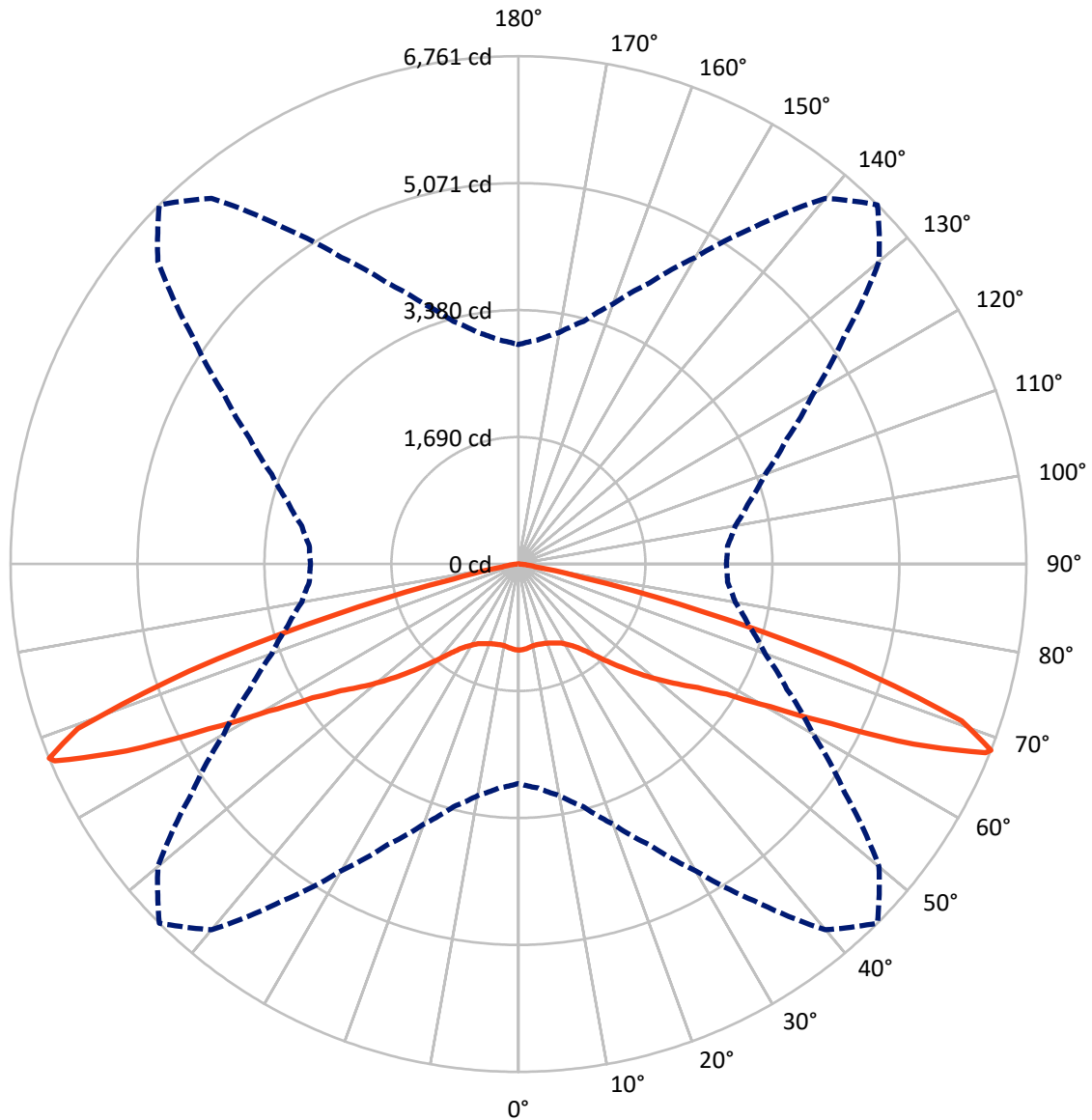


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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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
House Side	Lumens	5748.0	0.0	5748.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5748.0	0.0	5748.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11496.0	0.0	11496.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	0.9
10°-20°	311.2	2.7
20°-30°	529.1	4.6
30°-40°	865.8	7.5
40°-50°	1547.4	13.5
50°-60°	2613.2	22.7
60°-70°	4052.2	35.2
70°-80°	1393.2	12.1
80°-90°	76.6	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°	11496.0	100.0
0°-180°	11496.0	100.0



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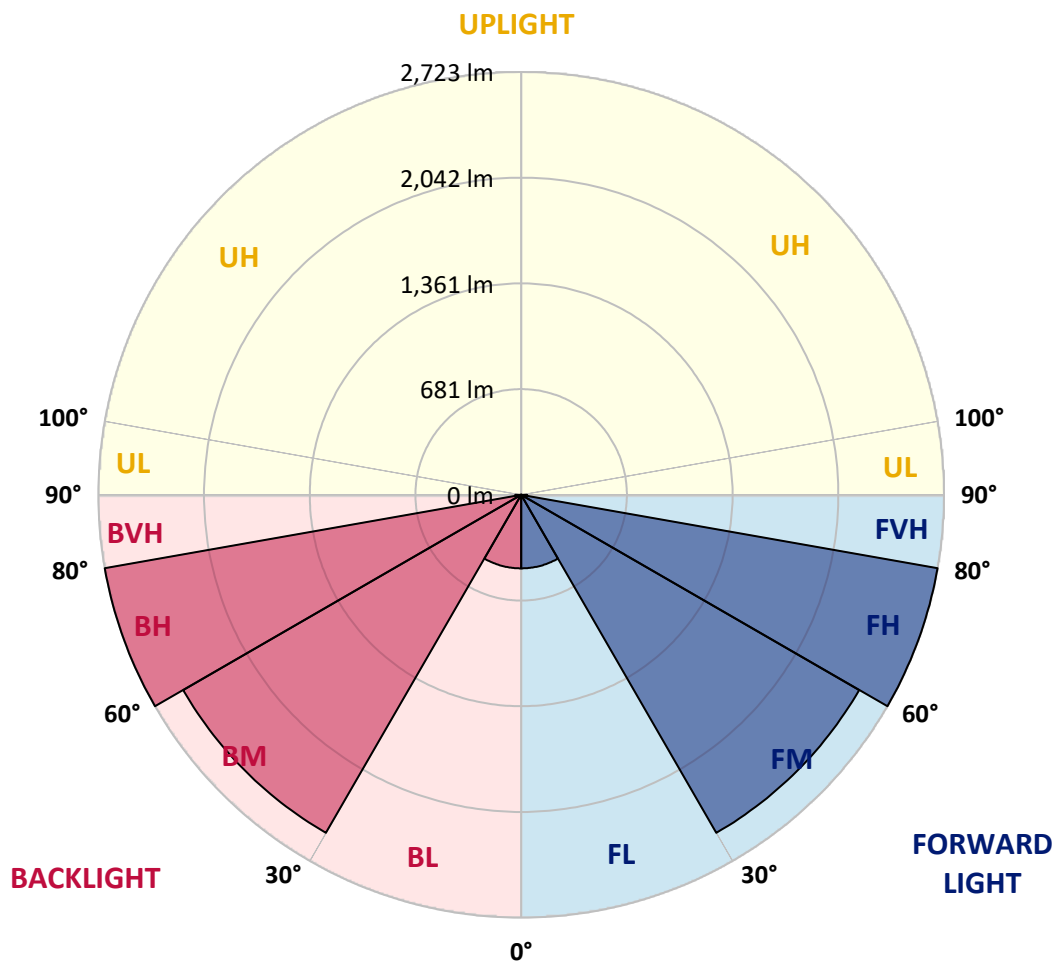
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.8	4.1			
FM	(30°-60°)	2513.2	21.9			
FH	(60°-80°)	2722.7	23.7			G2/5000
FVH	(80°-90°)	38.3	0.3			G1/100
BL	(0°-30°)	473.8	4.1	B1/500		
BM	(30°-60°)	2513.2	21.9	B3/5000		
BH	(60°-80°)	2722.7	23.7	B4/5000		G2/5000
BVH	(80°-90°)	38.3	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°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1151.7	1151.7	1153.1	1152.4	1150.3	1148.2	1146.1	1143.9	1142.5	1141.1	1139.7
5°	1139.7	1139.7	1141.8	1140.4	1139.0	1136.9	1135.5	1133.4	1132.0	1130.6	1131.3
7.5°	1124.2	1125.6	1127.0	1126.3	1123.5	1122.8	1120.7	1120.0	1118.6	1116.5	1117.2
10°	1110.9	1111.6	1113.0	1112.3	1111.6	1109.5	1108.7	1108.0	1107.3	1104.5	1103.8
12.5°	1097.5	1098.9	1100.3	1101.0	1100.3	1101.0	1101.7	1102.4	1101.7	1100.3	1100.3
15°	1086.9	1088.3	1090.4	1092.6	1093.3	1097.5	1100.3	1103.1	1105.2	1105.9	1103.8
17.5°	1081.3	1083.4	1086.2	1090.4	1094.0	1098.9	1103.8	1108.0	1111.6	1112.3	1110.2
20°	1080.6	1082.7	1086.9	1091.9	1098.2	1104.5	1112.3	1118.6	1122.1	1124.2	1122.1
22.5°	1085.5	1088.3	1094.0	1100.3	1108.0	1116.5	1126.3	1133.4	1140.4	1143.2	1141.1
25°	1099.6	1102.4	1108.7	1116.5	1124.9	1135.5	1145.4	1154.5	1161.5	1165.1	1162.2
27.5°	1129.2	1129.9	1136.9	1145.4	1155.2	1164.4	1177.0	1181.3	1186.9	1190.4	1186.9
30°	1170.7	1172.1	1178.4	1191.8	1201.0	1212.9	1220.0	1224.2	1230.5	1234.1	1229.8
32.5°	1234.1	1235.5	1241.1	1253.8	1262.2	1271.4	1279.8	1282.6	1289.0	1293.2	1288.3
35°	1323.5	1326.3	1331.2	1339.6	1346.7	1353.7	1360.1	1357.9	1362.2	1367.8	1362.9
37.5°	1445.9	1445.2	1446.6	1453.0	1460.0	1464.2	1474.1	1469.2	1473.4	1478.3	1475.5
40°	1588.9	1588.9	1588.1	1599.4	1602.2	1606.4	1617.0	1610.7	1616.3	1621.9	1617.0
42.5°	1751.5	1754.3	1757.8	1767.0	1774.7	1776.1	1781.0	1778.2	1785.3	1790.2	1785.3
45°	1938.7	1942.9	1947.2	1968.3	1971.8	1974.6	1978.1	1969.0	1976.7	1981.0	1979.6
47.5°	2133.0	2140.8	2149.9	2171.7	2185.8	2192.1	2195.0	2184.4	2185.1	2191.4	2192.1
50°	2352.7	2361.1	2370.3	2394.9	2408.3	2419.5	2423.1	2411.1	2412.5	2417.4	2418.8
52.5°	2555.4	2565.3	2585.0	2618.0	2637.1	2656.8	2658.2	2643.4	2649.7	2653.2	2650.4
55°	2746.2	2758.8	2784.9	2829.2	2863.7	2902.5	2920.0	2903.9	2903.9	2901.0	2899.6
57.5°	2968.6	2982.7	3009.5	3060.8	3108.7	3164.3	3212.2	3228.4	3258.0	3267.8	3252.3
60°	3303.7	3318.5	3345.9	3413.5	3474.1	3555.0	3633.9	3697.9	3802.1	3858.4	3807.8
62.5°	3609.9	3632.5	3697.2	3815.5	3946.4	4096.4	4270.3	4394.2	4583.5	4677.9	4550.4
65°	3540.2	3586.0	3712.7	3898.6	4168.9	4494.1	4848.2	5188.2	5579.6	5780.3	5521.2
67.5°	3092.5	3131.2	3267.8	3483.9	3821.1	4269.6	4820.1	5524.0	6331.5	6707.4	6249.1
68°	2921.5	2994.0	3129.8	3344.5	3684.6	4125.2	4713.1	5473.3	6354.7	6760.9	6266.0
70°	2240.0	2266.1	2396.3	2589.2	2956.0	3388.2	3981.6	4848.2	5844.3	6262.5	5753.5
72.5°	1064.4	1079.9	1164.4	1354.4	1587.4	1939.4	2463.2	3280.5	4178.0	4613.1	4105.5
75°	390.0	393.5	413.2	458.3	545.6	677.9	929.2	1437.5	2128.1	2537.8	2136.5
77.5°	210.5	211.2	218.9	230.2	245.7	263.3	301.3	404.1	651.9	887.0	688.5
80°	132.3	131.6	139.4	148.5	159.1	167.5	171.1	183.0	206.3	241.5	221.7
82.5°	67.6	73.9	91.5	101.4	116.9	119.7	116.2	115.5	122.5	132.3	136.6
85°	37.3	33.1	48.6	64.8	70.4	72.5	73.2	69.0	67.6	66.2	69.7
87.5°	19.0	17.6	21.1	32.4	34.5	28.2	28.9	24.6	16.9	16.9	17.6
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°	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1138.3	1139.0	1137.6	1137.6	1137.6	1138.3	1137.6	1136.9
5°	1129.2	1130.6	1130.6	1131.3	1132.0	1132.0	1132.0	1132.0
7.5°	1115.8	1116.5	1117.9	1117.9	1117.9	1117.9	1117.9	1117.9
10°	1103.1	1101.7	1101.0	1099.6	1099.6	1097.5	1098.2	1098.9
12.5°	1096.8	1094.0	1092.6	1090.4	1089.0	1086.9	1086.9	1087.6
15°	1099.6	1095.4	1091.1	1089.7	1088.3	1086.9	1085.5	1086.2
17.5°	1105.2	1100.3	1095.4	1092.6	1089.7	1087.6	1086.9	1087.6
20°	1117.2	1110.2	1102.4	1097.5	1091.9	1090.4	1088.3	1090.4
22.5°	1133.4	1124.9	1115.1	1105.9	1099.6	1096.8	1094.0	1096.1
25°	1153.1	1143.9	1134.1	1123.5	1116.5	1114.4	1110.9	1110.9
27.5°	1180.6	1172.8	1164.4	1154.5	1147.5	1145.4	1139.7	1139.7
30°	1224.2	1216.5	1208.7	1200.3	1193.2	1191.1	1184.1	1184.1
32.5°	1281.9	1273.5	1268.5	1261.5	1255.9	1252.4	1243.9	1243.2
35°	1359.4	1351.6	1350.9	1346.0	1340.4	1341.1	1332.6	1331.2
37.5°	1470.6	1464.2	1466.4	1462.1	1457.2	1461.4	1456.5	1456.5
40°	1612.8	1610.7	1612.8	1610.0	1610.7	1611.4	1607.2	1608.6
42.5°	1784.6	1778.9	1791.6	1790.2	1788.1	1793.7	1783.8	1776.8
45°	1982.4	1980.3	1992.9	1995.0	1990.8	1994.3	1976.7	1976.0
47.5°	2197.1	2197.1	2208.3	2206.9	2202.7	2203.4	2182.3	2168.9
50°	2420.9	2419.5	2430.8	2428.0	2422.3	2421.6	2399.8	2386.4
52.5°	2654.0	2654.0	2670.1	2662.4	2649.0	2642.7	2615.9	2598.3
55°	2911.6	2908.1	2913.0	2887.7	2861.6	2842.6	2809.5	2796.2
57.5°	3237.5	3196.7	3161.5	3129.1	3092.5	3070.0	3031.3	3017.2
60°	3700.0	3590.9	3543.8	3479.0	3418.5	3388.2	3336.8	3309.3
62.5°	4340.7	4159.7	4031.6	3888.7	3750.7	3653.6	3575.4	3540.9
65°	5081.2	4687.0	4361.1	4054.8	3795.1	3588.8	3474.1	3438.2
67.5°	5362.8	4639.1	4076.7	3637.4	3322.0	3076.3	2939.1	2910.2
68°	5303.0	4529.3	3945.0	3495.2	3178.4	2930.6	2794.0	2768.0
70°	4677.9	3821.1	3204.5	2756.7	2461.1	2225.2	2128.8	2087.3
72.5°	3189.0	2454.0	1882.4	1505.8	1284.7	1135.5	1046.8	1016.5
75°	1467.8	991.9	662.4	494.9	420.3	384.4	356.9	349.9
77.5°	428.0	311.2	267.5	247.8	233.0	220.3	211.2	210.5
80°	203.4	190.8	185.1	172.5	159.1	147.1	138.7	140.1
82.5°	136.6	133.0	133.0	120.4	99.3	85.2	70.4	63.4
85°	72.5	75.3	79.5	75.3	65.5	48.6	31.7	34.5
87.5°	24.6	28.2	29.6	28.9	26.0	19.7	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)