

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: P192640

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13610.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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

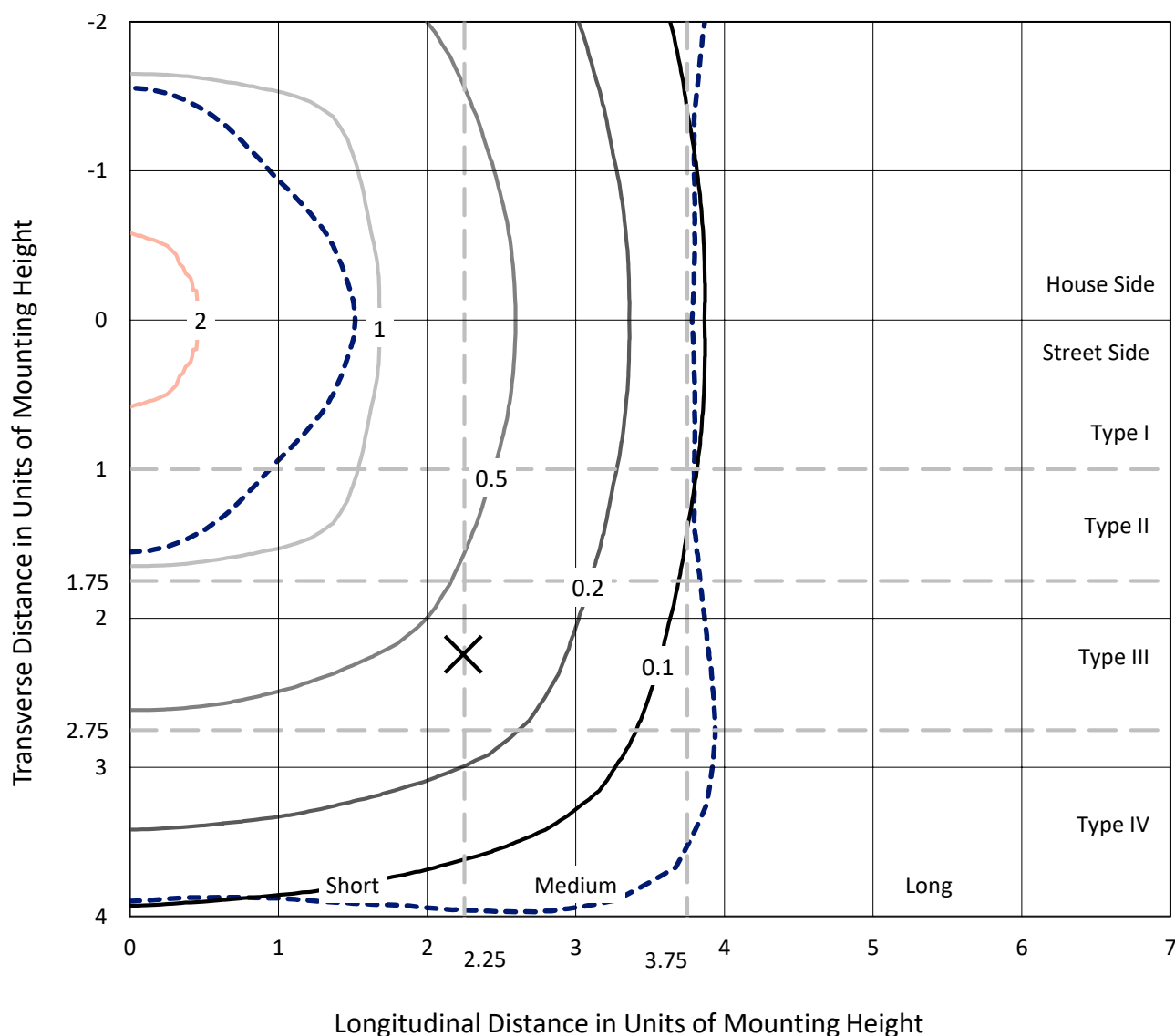


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

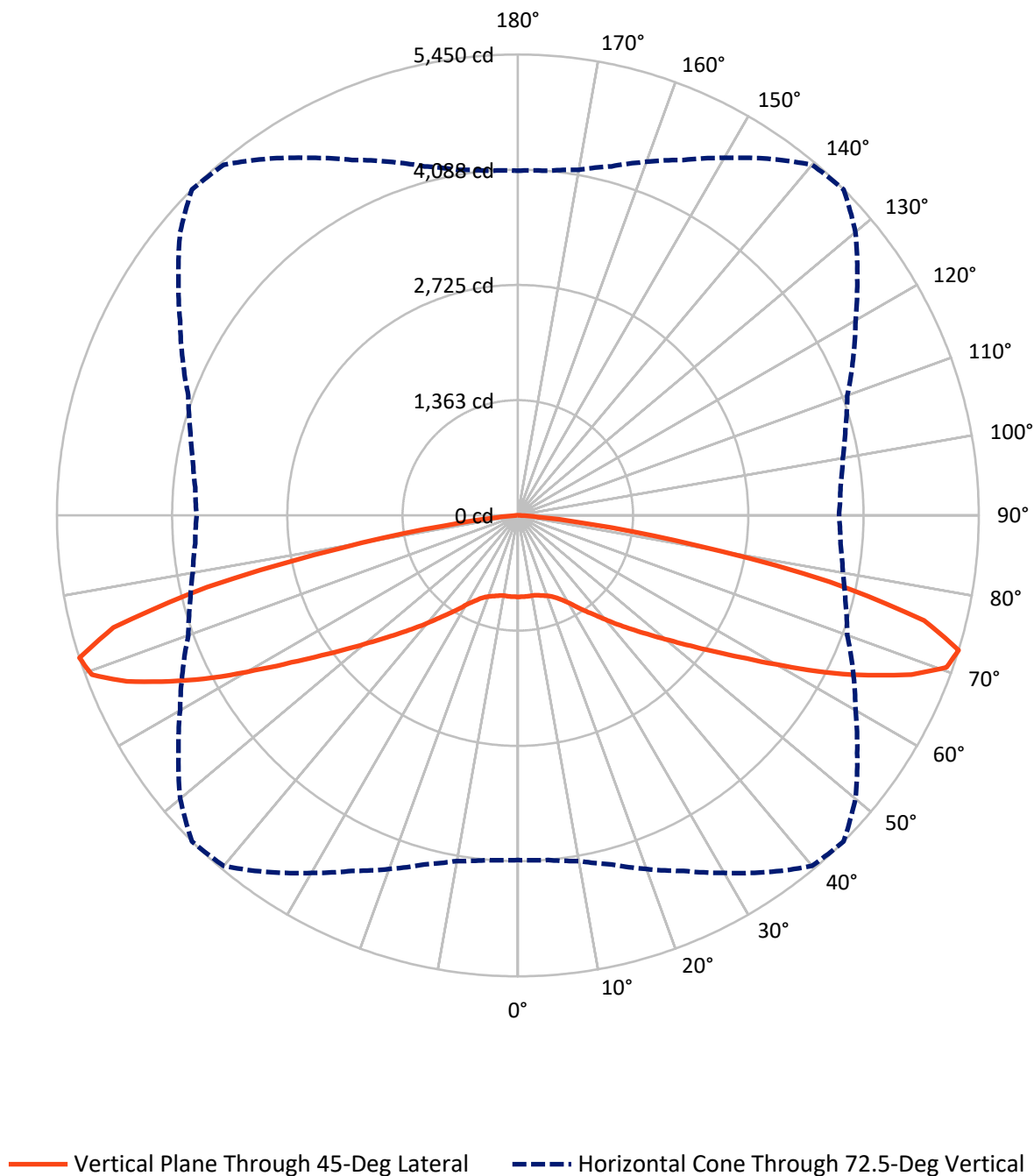


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6805.2	0.0	6805.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6805.2	0.0	6805.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13610.4	0.0	13610.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	0.7
10°-20°	279.5	2.1
20°-30°	510.8	3.8
30°-40°	880.7	6.5
40°-50°	1505.5	11.1
50°-60°	2440.3	17.9
60°-70°	4048.4	29.7
70°-80°	3565.7	26.2
80°-90°	287.5	2.1
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°	13610.4	100.0
0°-180°	13610.4	100.0

Coefficient of Utilization



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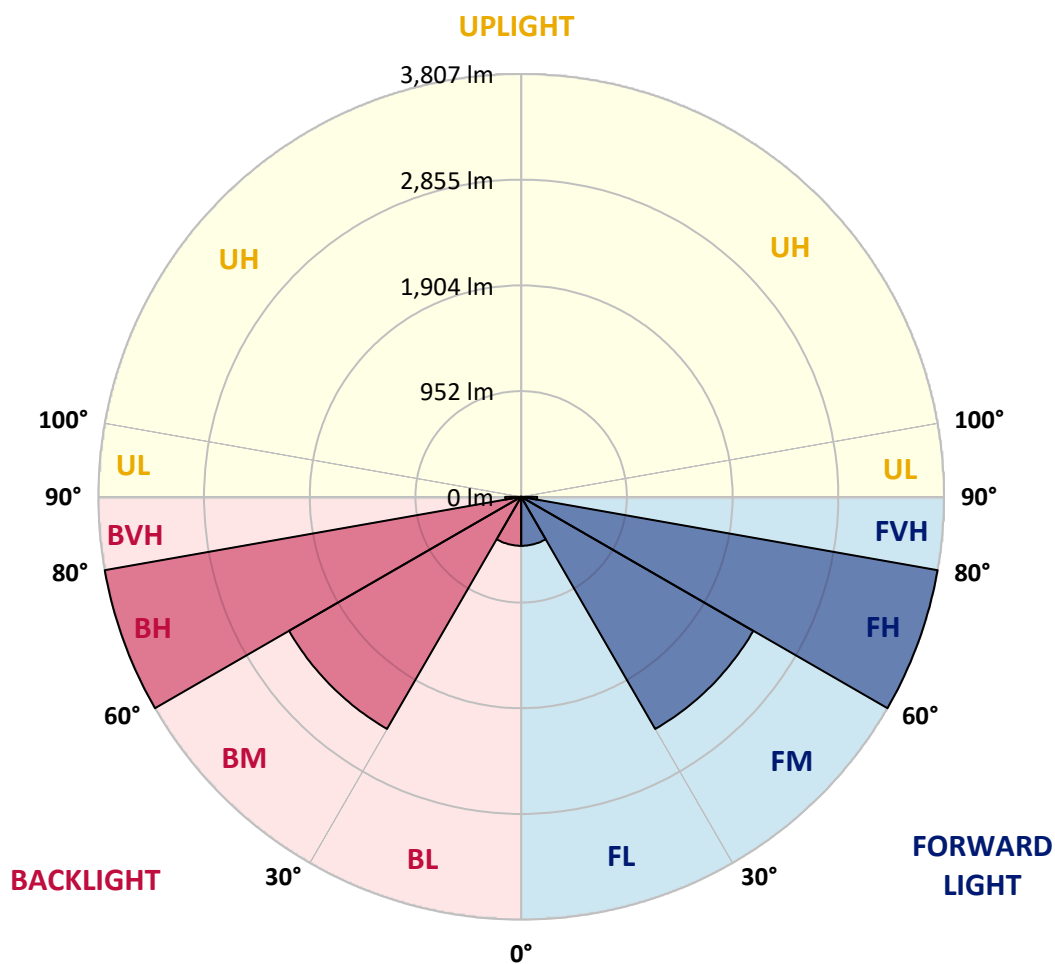
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.2	3.2			
FM	(30°-60°)	2413.3	17.7			
FH	(60°-80°)	3807.0	28.0			G2/5000
FVH	(80°-90°)	143.7	1.1			G2/225
BL	(0°-30°)	441.2	3.2	B1/500		
BM	(30°-60°)	2413.3	17.7	B2/2500		
BH	(60°-80°)	3807.0	28.0	B4/5000		G2/5000
BVH	(80°-90°)	143.7	1.1			G2/225
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°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	963.7	964.4	965.1	964.4	964.4	963.7	963.2	963.7	963.2	961.9	962.6
5°	967.0	968.1	968.1	967.0	967.6	967.0	965.8	966.3	965.1	963.2	963.2
7.5°	970.7	971.4	971.4	970.1	970.7	969.4	968.1	967.6	966.3	963.7	961.9
10°	976.3	976.9	976.3	975.0	975.0	973.2	970.1	968.8	966.3	962.6	960.7
12.5°	982.6	983.3	982.6	981.2	980.7	977.6	975.0	973.2	971.4	968.1	965.1
15°	991.3	992.5	991.3	988.8	986.9	984.4	983.3	983.8	984.4	981.9	978.9
17.5°	1007.5	1008.1	1006.3	1000.7	998.2	995.7	995.7	996.9	998.7	997.5	994.4
20°	1037.5	1035.7	1031.3	1024.5	1021.2	1016.8	1016.2	1016.8	1016.8	1016.2	1013.8
22.5°	1074.9	1073.7	1068.1	1059.4	1055.0	1052.5	1048.8	1045.6	1044.9	1043.1	1040.5
25°	1119.9	1119.3	1112.4	1104.9	1101.8	1098.7	1095.6	1091.2	1087.4	1083.1	1080.6
27.5°	1177.3	1174.9	1164.8	1161.1	1156.7	1154.9	1150.5	1145.5	1142.5	1136.8	1133.7
30°	1240.4	1240.4	1232.2	1231.1	1231.1	1226.7	1221.6	1212.9	1207.4	1201.7	1199.7
32.5°	1303.5	1304.0	1296.0	1298.4	1300.3	1303.5	1304.7	1301.5	1297.8	1297.1	1293.4
35°	1394.5	1392.1	1384.0	1385.9	1385.2	1384.6	1384.6	1391.4	1392.7	1393.9	1386.4
37.5°	1507.6	1507.6	1499.5	1499.5	1495.6	1491.9	1486.9	1491.3	1498.2	1500.0	1495.1
40°	1636.8	1641.2	1631.1	1630.4	1631.8	1619.9	1614.3	1621.2	1625.6	1633.0	1627.4
42.5°	1789.1	1786.0	1776.0	1774.7	1767.9	1764.1	1759.1	1764.7	1771.6	1776.5	1778.4
45°	1935.2	1932.7	1921.5	1921.5	1914.5	1911.4	1913.9	1923.3	1926.5	1933.3	1940.1
47.5°	2079.3	2076.3	2068.8	2071.9	2072.4	2078.1	2086.2	2094.9	2103.7	2113.1	2116.2
50°	2226.7	2227.2	2219.2	2226.7	2236.0	2251.7	2273.4	2287.9	2305.9	2317.8	2321.5
52.5°	2360.9	2363.4	2372.1	2389.6	2408.3	2438.8	2476.4	2511.4	2541.3	2561.2	2560.1
55°	2521.9	2525.6	2547.0	2576.9	2607.5	2653.7	2709.2	2771.1	2821.0	2849.7	2831.6
57.5°	2727.9	2736.1	2759.8	2800.4	2845.8	2905.9	2982.0	3075.0	3152.4	3191.1	3161.8
60°	3010.7	3015.7	3044.4	3089.5	3144.3	3218.6	3320.4	3445.2	3554.4	3605.7	3571.9
62.5°	3383.4	3392.7	3415.9	3461.5	3517.6	3601.8	3726.1	3882.2	4018.2	4089.3	4013.2
65°	3828.5	3858.5	3877.8	3923.9	3976.4	4065.6	4195.5	4362.8	4508.9	4555.7	4467.7
67.5°	4269.2	4295.4	4329.1	4382.2	4435.3	4535.8	4656.2	4818.6	4979.0	5021.4	4884.7
70°	4462.0	4477.1	4529.5	4601.9	4703.6	4822.2	4961.5	5143.7	5342.2	5377.2	5203.7
72.5°	4075.7	4090.6	4149.3	4272.4	4449.6	4638.2	4880.9	5148.8	5410.9	5450.3	5211.1
75°	3082.5	3058.1	3144.9	3307.9	3547.0	3809.8	4149.3	4533.2	4912.2	4961.5	4676.2
77.5°	1593.1	1589.9	1655.5	1857.7	2143.0	2442.1	2815.9	3249.8	3620.7	3770.4	3538.3
80°	448.8	453.9	485.0	585.5	752.2	968.1	1260.3	1666.7	1970.1	2124.9	1995.1
82.5°	176.0	189.8	201.6	220.3	242.2	274.0	365.8	544.3	730.4	872.7	714.8
85°	63.1	67.4	95.5	113.0	114.8	121.1	138.0	161.0	194.2	231.6	190.4
87.5°	23.7	26.2	30.6	50.6	49.9	45.6	55.5	58.0	43.7	40.0	49.2
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°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7
2.5°	961.4	961.9	961.9	962.6	963.2	963.2	964.4	964.4
5°	961.9	961.9	960.7	961.4	960.7	960.7	961.4	961.4
7.5°	960.7	960.1	958.9	958.2	957.0	957.0	957.0	957.0
10°	958.9	958.2	957.0	956.3	955.7	955.7	955.7	955.7
12.5°	963.7	961.9	960.7	960.1	960.1	960.1	960.1	960.1
15°	976.9	972.5	969.4	969.4	970.1	971.4	971.4	972.5
17.5°	993.1	988.1	985.1	982.6	983.8	985.6	986.9	988.1
20°	1012.5	1010.0	1005.6	1003.1	1003.1	1005.6	1007.0	1007.5
22.5°	1039.4	1037.5	1035.7	1032.5	1032.5	1033.7	1036.3	1036.3
25°	1079.3	1078.1	1076.9	1074.3	1073.7	1073.7	1074.9	1076.2
27.5°	1129.3	1129.8	1128.6	1128.0	1126.1	1125.5	1127.3	1126.8
30°	1196.1	1199.1	1202.3	1199.7	1196.7	1194.8	1192.9	1190.4
32.5°	1286.5	1282.8	1280.3	1275.9	1270.3	1265.3	1261.6	1257.2
35°	1372.1	1365.8	1363.3	1367.1	1366.5	1363.3	1358.9	1355.3
37.5°	1476.9	1475.6	1476.9	1483.8	1482.5	1485.7	1476.9	1476.3
40°	1609.3	1610.6	1619.3	1627.4	1631.8	1636.1	1631.1	1626.1
42.5°	1762.9	1762.3	1765.3	1776.5	1784.1	1789.1	1778.4	1777.2
45°	1925.1	1920.8	1923.3	1932.7	1940.1	1945.8	1933.9	1933.9
47.5°	2103.7	2096.2	2088.1	2098.7	2103.0	2106.8	2097.4	2094.3
50°	2302.8	2287.3	2269.8	2274.1	2274.1	2272.8	2261.0	2260.3
52.5°	2531.3	2502.6	2470.8	2458.9	2452.0	2444.5	2423.9	2414.0
55°	2794.1	2751.0	2701.1	2670.6	2654.2	2633.7	2599.4	2590.0
57.5°	3101.3	3033.8	2947.7	2910.2	2873.9	2840.3	2802.2	2791.6
60°	3465.1	3366.0	3251.7	3182.4	3143.1	3110.6	3071.3	3069.4
62.5°	3870.9	3714.3	3585.1	3522.6	3493.9	3465.1	3427.7	3432.7
65°	4283.5	4119.9	3998.9	3948.3	3921.6	3897.8	3860.3	3865.9
67.5°	4690.5	4540.2	4407.2	4355.3	4325.3	4295.4	4261.6	4267.3
70°	4982.7	4796.1	4646.2	4531.4	4459.6	4378.4	4326.0	4312.9
72.5°	4899.0	4611.3	4373.4	4145.7	4012.0	3903.4	3829.7	3797.9
75°	4239.8	3846.6	3540.6	3261.1	3103.7	2975.7	2882.7	2824.7
77.5°	3148.7	2706.7	2345.2	2023.2	1768.5	1597.5	1476.9	1398.9
80°	1723.6	1310.9	958.2	673.6	495.1	411.4	363.3	340.3
82.5°	536.9	346.5	255.3	220.3	204.8	196.0	181.7	158.5
85°	171.0	149.8	139.2	133.0	126.7	110.5	76.2	69.3
87.5°	66.2	68.1	67.4	63.7	64.9	46.9	37.4	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)