

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: P192580

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9816.9 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 85
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

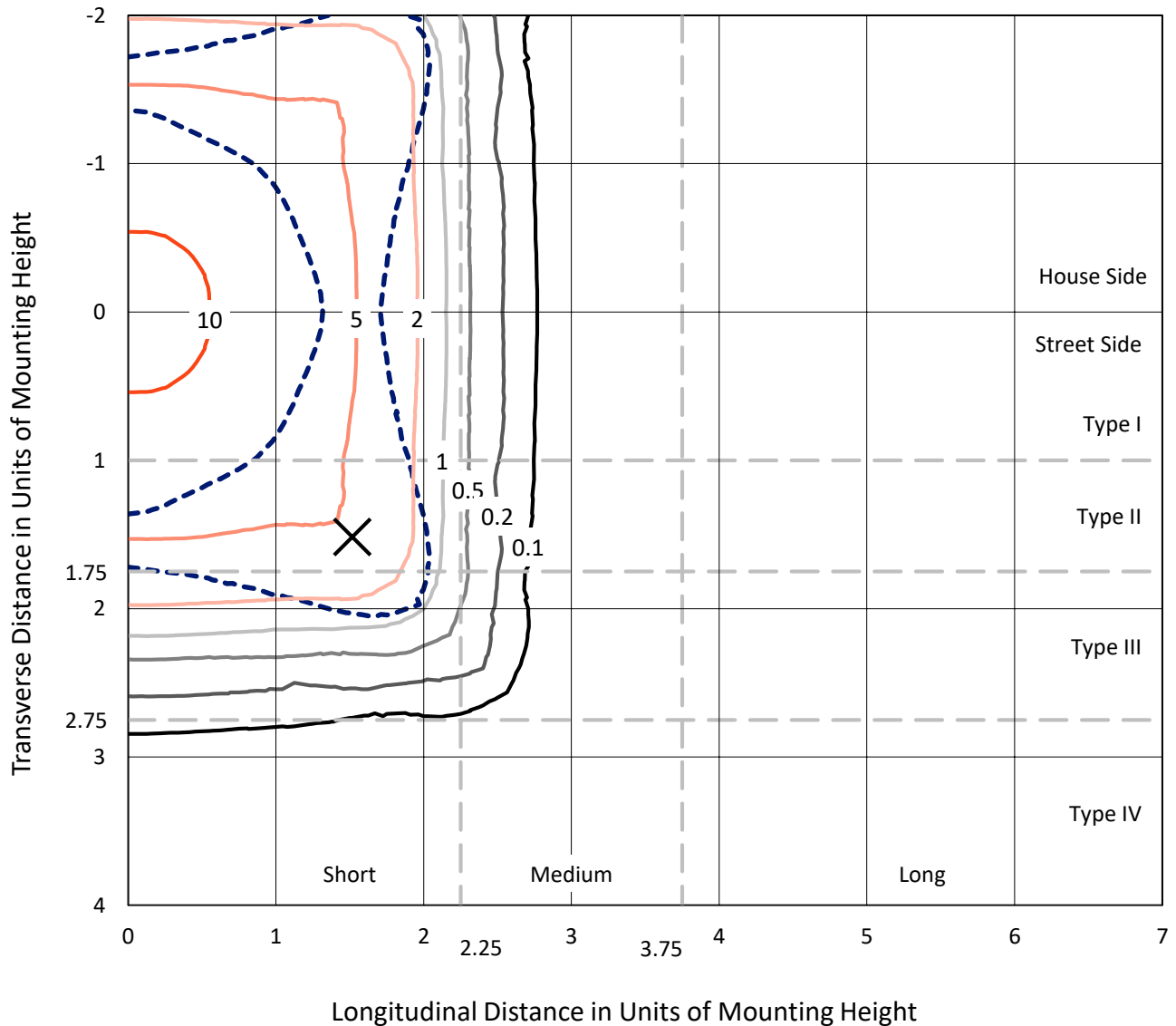


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

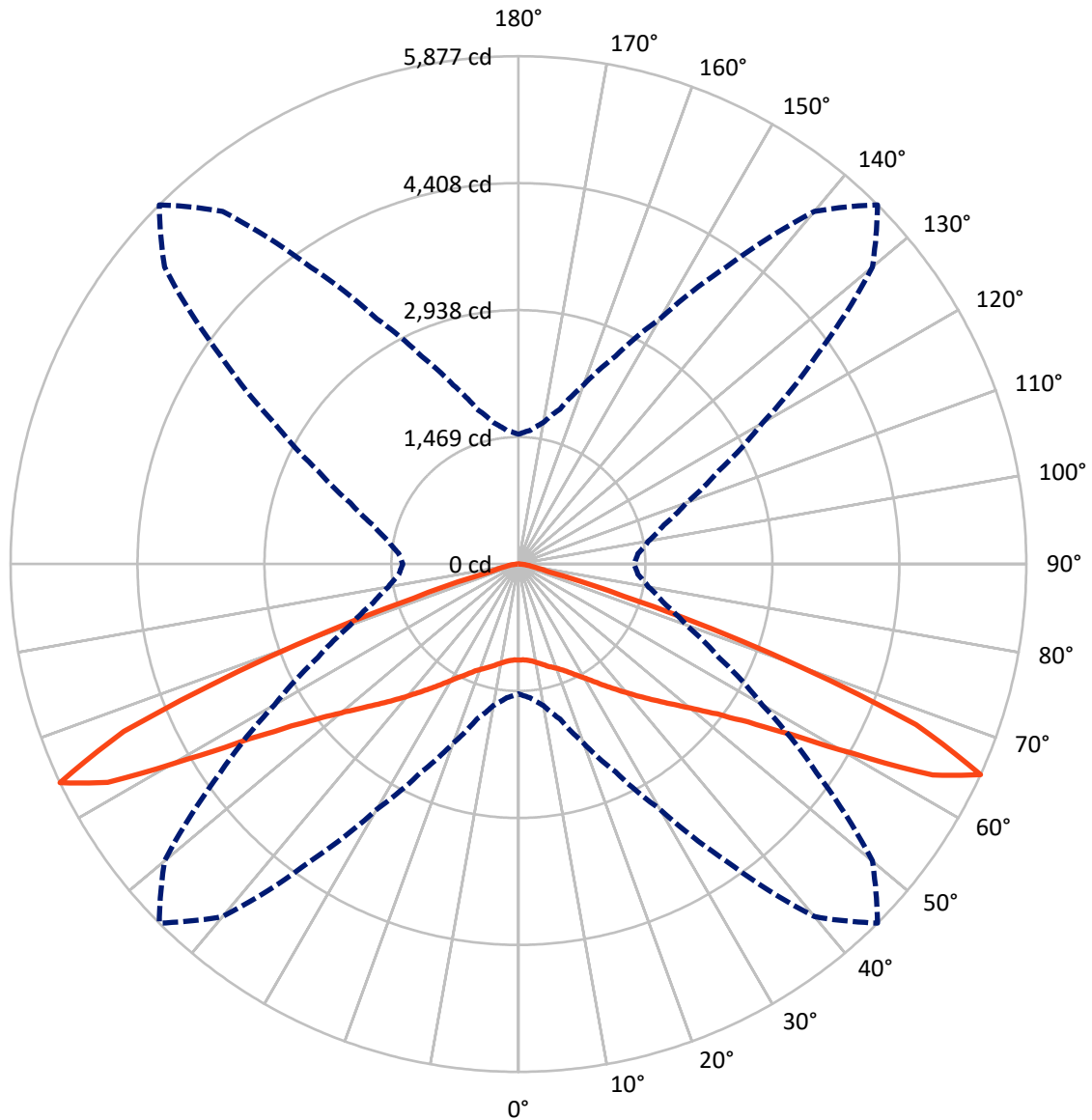


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4908.5	0.0	4908.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4908.5	0.0	4908.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9816.9	0.0	9816.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.1
10°-20°	347.2	3.5
20°-30°	649.3	6.6
30°-40°	1098.1	11.2
40°-50°	1795.5	18.3
50°-60°	2855.1	29.1
60°-70°	2580.8	26.3
70°-80°	326.6	3.3
80°-90°	56.2	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°	9816.9	100.0
0°-180°	9816.9	100.0



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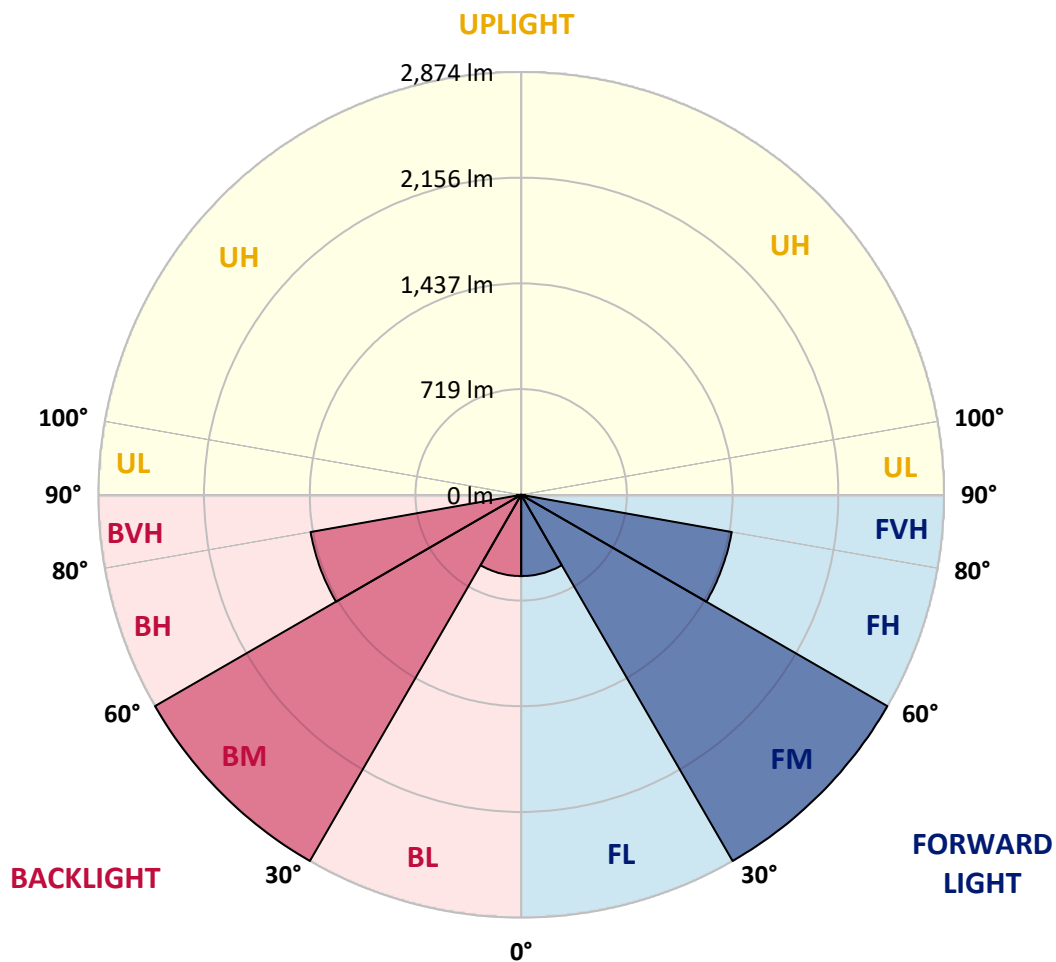
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.4	5.6			
FM	(30°-60°)	2874.3	29.3			
FH	(60°-80°)	1453.7	14.8			G1/1800
FVH	(80°-90°)	28.1	0.3			G1/100
BL	(0°-30°)	552.4	5.6	B2/1000		
BM	(30°-60°)	2874.3	29.3	B3/5000		
BH	(60°-80°)	1453.7	14.8	B3/2500		G1/1800
BVH	(80°-90°)	28.1	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1111.7	1112.6	1113.6	1112.6	1113.6	1112.1	1111.2	1112.6	1111.2	1109.8	1110.8
5°	1121.3	1121.9	1121.9	1120.5	1121.9	1120.9	1119.6	1121.3	1120.0	1118.6	1119.6
7.5°	1137.5	1139.2	1137.9	1136.6	1137.5	1136.6	1135.6	1136.1	1135.6	1134.2	1134.6
10°	1159.0	1160.5	1159.6	1159.0	1160.0	1159.6	1158.5	1158.1	1158.5	1157.3	1157.3
12.5°	1185.3	1184.8	1184.4	1184.8	1186.2	1186.2	1185.7	1186.2	1187.1	1187.5	1186.7
15°	1211.0	1211.9	1211.9	1211.9	1214.8	1217.0	1218.4	1219.4	1221.2	1221.6	1219.8
17.5°	1243.2	1243.2	1242.8	1243.2	1246.0	1249.6	1251.0	1252.8	1254.8	1256.1	1253.8
20°	1279.1	1280.0	1280.0	1280.9	1284.6	1288.7	1288.7	1289.6	1288.7	1289.6	1288.2
22.5°	1322.7	1325.6	1325.6	1326.0	1329.6	1334.7	1333.3	1334.7	1332.4	1334.3	1332.4
25°	1379.7	1383.9	1383.0	1383.0	1385.7	1388.9	1389.4	1392.2	1391.8	1394.0	1392.6
27.5°	1444.1	1450.5	1452.4	1451.9	1453.8	1457.0	1457.9	1461.2	1459.2	1461.2	1460.2
30°	1521.3	1524.1	1527.8	1529.2	1531.5	1534.6	1534.6	1535.2	1532.9	1535.6	1537.0
32.5°	1601.4	1606.4	1610.1	1618.3	1622.5	1624.8	1624.3	1625.2	1622.9	1626.7	1629.4
35°	1707.0	1710.8	1716.8	1723.2	1728.7	1728.3	1726.9	1727.4	1727.4	1730.5	1733.3
37.5°	1834.5	1835.3	1843.2	1852.4	1855.1	1852.4	1844.1	1842.3	1838.2	1842.3	1846.9
40°	1969.2	1972.3	1988.0	1994.0	1995.4	1990.3	1978.3	1971.5	1962.3	1967.3	1973.8
42.5°	2110.4	2116.8	2131.0	2141.6	2146.2	2143.0	2126.4	2115.8	2103.9	2106.6	2113.1
45°	2266.7	2274.4	2294.7	2304.9	2313.6	2308.4	2292.4	2276.3	2257.4	2258.8	2269.0
47.5°	2441.4	2449.1	2475.4	2492.4	2497.0	2496.0	2478.1	2456.0	2430.4	2429.4	2438.1
50°	2637.2	2645.0	2677.7	2703.8	2717.2	2715.8	2694.7	2663.4	2632.2	2632.6	2643.6
52.5°	2828.5	2838.1	2872.1	2917.2	2943.5	2962.2	2949.4	2920.0	2881.8	2882.7	2892.8
55°	3007.8	3023.9	3063.0	3124.0	3172.9	3225.7	3240.8	3240.0	3217.0	3223.3	3233.5
57.5°	3094.7	3118.6	3178.8	3275.4	3374.7	3482.3	3573.4	3641.4	3670.3	3713.9	3703.9
60°	2930.2	2968.2	3057.0	3199.0	3395.3	3619.8	3860.2	4095.1	4295.6	4446.9	4360.0
62.5°	2399.0	2448.7	2556.3	2738.4	3035.3	3394.4	3854.6	4410.0	5015.1	5380.2	5119.5
65°	1501.1	1552.6	1662.1	1857.0	2204.6	2650.9	3275.4	4195.8	5326.4	5876.7	5346.2
67.5°	585.3	613.3	672.6	797.3	1058.4	1455.7	2082.3	3126.9	4479.1	4961.4	4395.8
70°	293.4	296.1	307.1	330.1	386.2	501.6	763.1	1449.7	2568.6	3102.5	2476.3
72.5°	212.0	212.4	218.0	228.1	246.0	271.7	321.3	443.7	835.4	1276.8	783.0
75°	162.2	164.1	167.3	172.8	182.6	195.3	213.4	255.6	316.8	367.3	308.9
77.5°	125.1	128.7	131.0	136.1	142.0	150.8	155.9	172.0	200.0	210.6	207.4
80°	95.2	98.5	103.5	107.6	111.8	115.9	114.0	121.4	136.1	144.9	140.2
82.5°	60.6	64.4	79.1	82.7	84.5	87.4	84.1	84.5	91.0	96.5	91.0
85°	39.2	41.4	50.1	54.7	55.1	57.1	55.6	52.5	52.5	47.8	53.7
87.5°	17.9	18.3	22.5	26.7	27.6	24.8	24.4	23.5	18.9	17.9	19.3
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°	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1110.3	1111.2	1111.7	1113.2	1113.6	1113.6	1114.0	1114.9
5°	1119.1	1120.5	1120.9	1122.7	1123.1	1122.7	1123.6	1124.2
7.5°	1134.6	1137.0	1137.9	1139.8	1138.4	1140.2	1140.6	1140.6
10°	1157.7	1160.0	1160.5	1162.3	1161.3	1162.3	1162.3	1161.3
12.5°	1188.0	1188.5	1187.1	1188.5	1186.7	1187.5	1186.2	1185.3
15°	1221.6	1220.2	1217.0	1217.0	1214.2	1214.8	1214.2	1213.8
17.5°	1254.2	1251.4	1249.2	1248.3	1246.0	1245.5	1244.1	1244.1
20°	1290.2	1288.7	1287.3	1285.6	1283.2	1280.9	1280.4	1281.4
22.5°	1333.3	1332.9	1332.9	1332.0	1328.7	1326.4	1325.1	1325.1
25°	1391.2	1387.1	1387.1	1386.6	1385.3	1383.9	1381.1	1382.5
27.5°	1456.5	1454.2	1456.1	1455.7	1454.2	1454.2	1452.4	1452.4
30°	1537.0	1536.0	1538.8	1536.5	1532.0	1531.5	1529.6	1527.3
32.5°	1629.8	1628.9	1633.1	1630.3	1622.9	1618.7	1615.2	1613.3
35°	1733.3	1733.7	1738.9	1737.0	1728.7	1726.0	1719.5	1718.6
37.5°	1846.4	1853.8	1862.6	1864.4	1857.4	1855.7	1848.6	1845.1
40°	1979.3	1988.9	2002.2	2005.5	1998.2	1996.7	1987.1	1982.1
42.5°	2120.9	2137.4	2154.0	2156.8	2149.3	2142.0	2132.8	2129.1
45°	2279.0	2298.9	2320.4	2325.9	2314.8	2306.1	2294.2	2294.2
47.5°	2456.4	2481.4	2505.8	2520.9	2510.8	2501.6	2487.3	2478.1
50°	2666.2	2700.3	2731.9	2747.6	2731.5	2714.0	2689.2	2680.9
52.5°	2929.1	2966.0	2993.4	2985.3	2960.4	2936.1	2908.9	2897.9
55°	3264.7	3277.2	3277.2	3246.0	3196.3	3155.4	3112.6	3098.4
57.5°	3684.6	3636.7	3563.2	3469.8	3352.6	3250.6	3181.5	3149.0
60°	4177.8	3948.0	3688.3	3433.0	3223.3	3050.5	2948.1	2901.2
62.5°	4506.6	3905.3	3384.8	2975.1	2673.6	2465.2	2323.6	2268.4
65°	4212.0	3257.0	2560.0	2069.9	1741.1	1529.2	1388.9	1337.5
67.5°	3085.1	2040.9	1363.2	977.0	715.8	571.0	513.5	489.7
70°	1384.9	718.6	440.5	343.9	296.5	272.2	261.5	258.0
72.5°	417.5	302.1	254.7	229.9	211.0	199.1	190.3	189.4
75°	252.0	209.7	186.2	171.5	159.5	149.9	145.4	143.9
77.5°	176.1	154.0	143.0	132.4	123.3	115.9	111.8	108.5
80°	123.7	113.1	108.0	102.0	96.0	89.1	83.2	80.5
82.5°	82.7	80.5	80.5	76.8	71.7	65.3	53.3	50.6
85°	53.3	52.9	53.7	52.5	48.7	41.8	34.5	32.7
87.5°	24.8	25.2	28.1	27.6	26.7	22.1	17.5	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)