

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: P193440

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193440
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 11484 lumens
Efficiency: N/A
Efficacy: 89.0 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

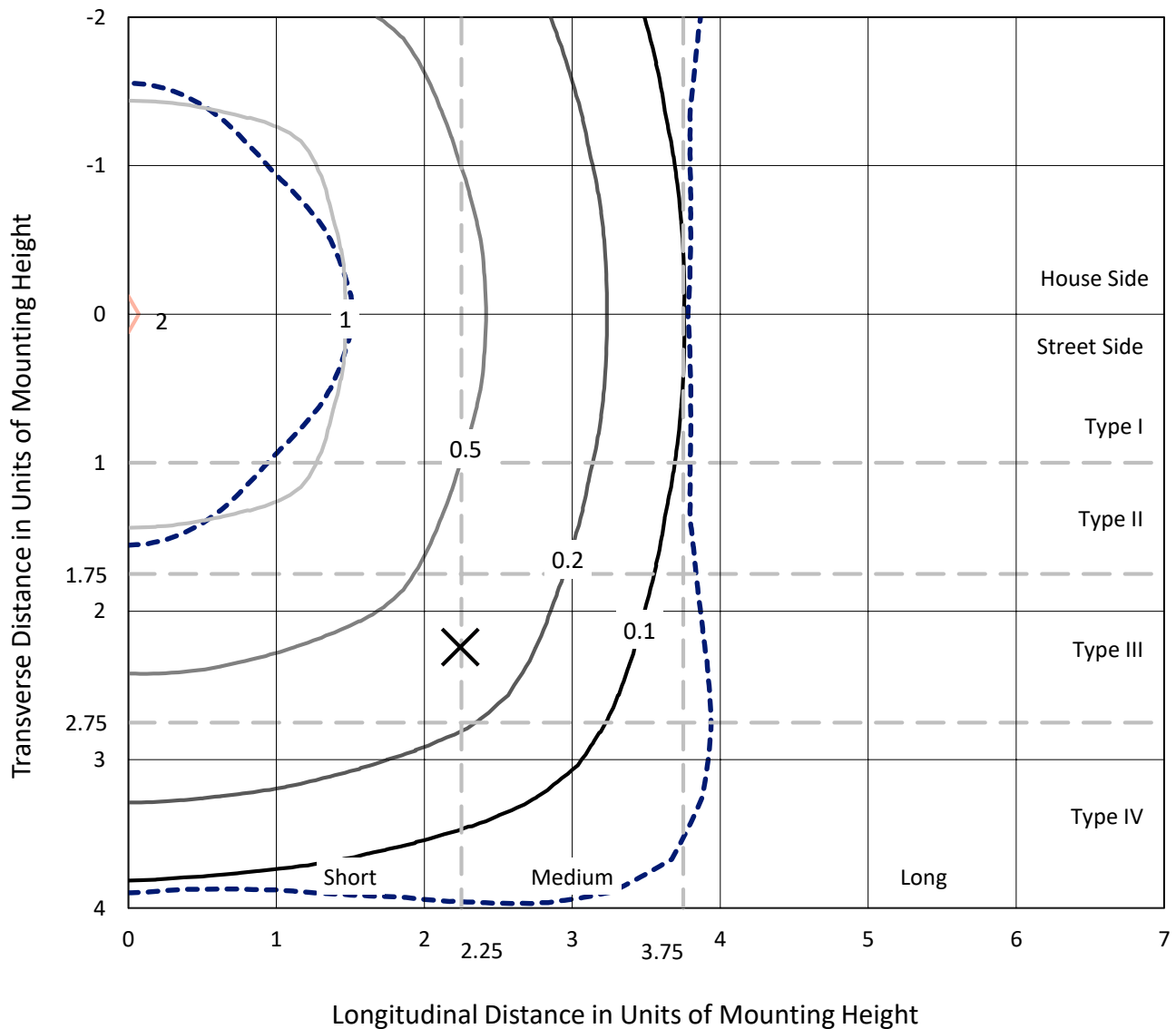


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

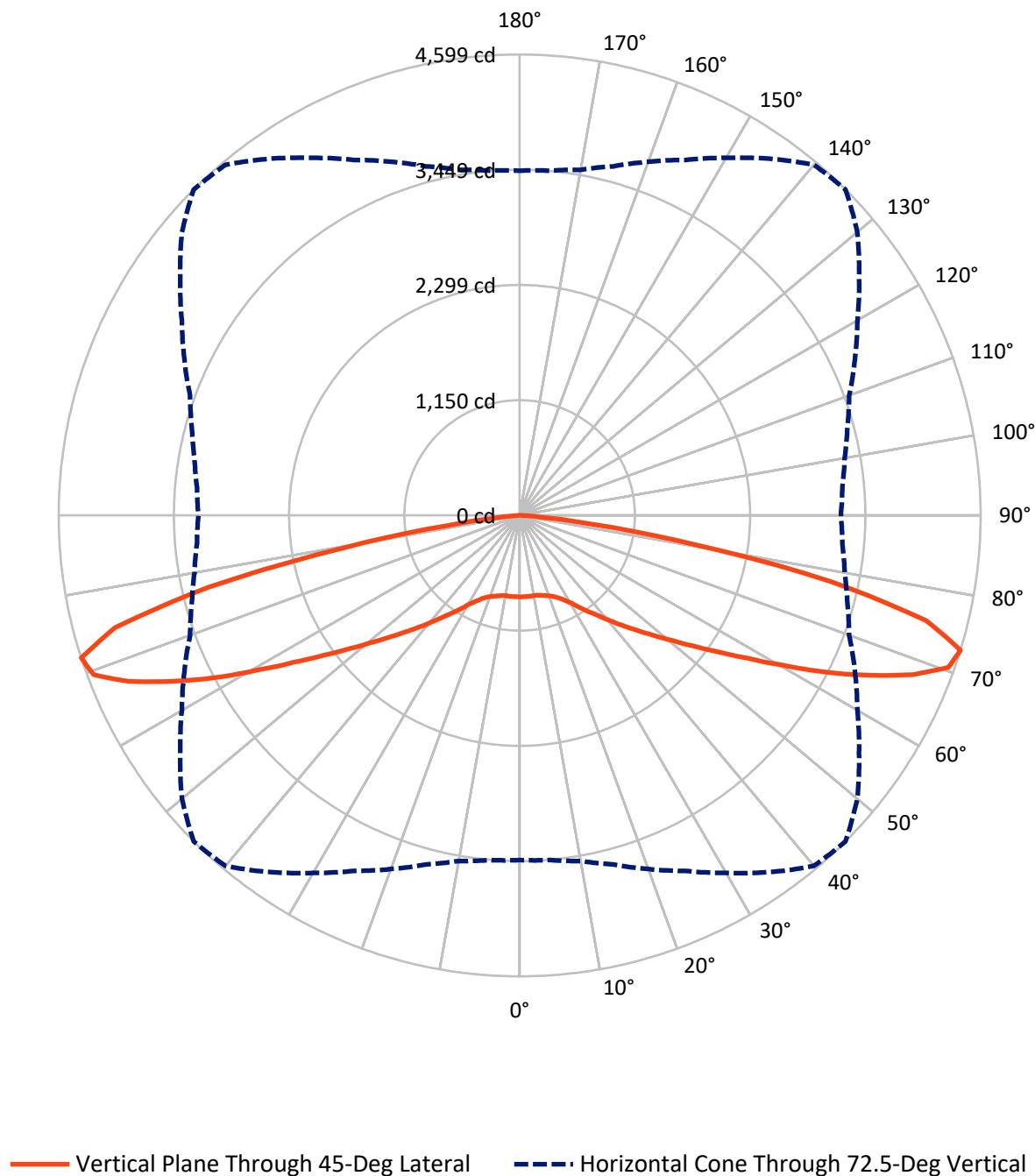


Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5742.0	0.0	5742.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5742.0	0.0	5742.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11484.0	0.0	11484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	0.7
10°-20°	235.8	2.1
20°-30°	431.0	3.8
30°-40°	743.1	6.5
40°-50°	1270.3	11.1
50°-60°	2059.0	17.9
60°-70°	3415.9	29.7
70°-80°	3008.6	26.2
80°-90°	242.6	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°	11484.0	100.0
0°-180°	11484.0	100.0

Coefficient of Utilization



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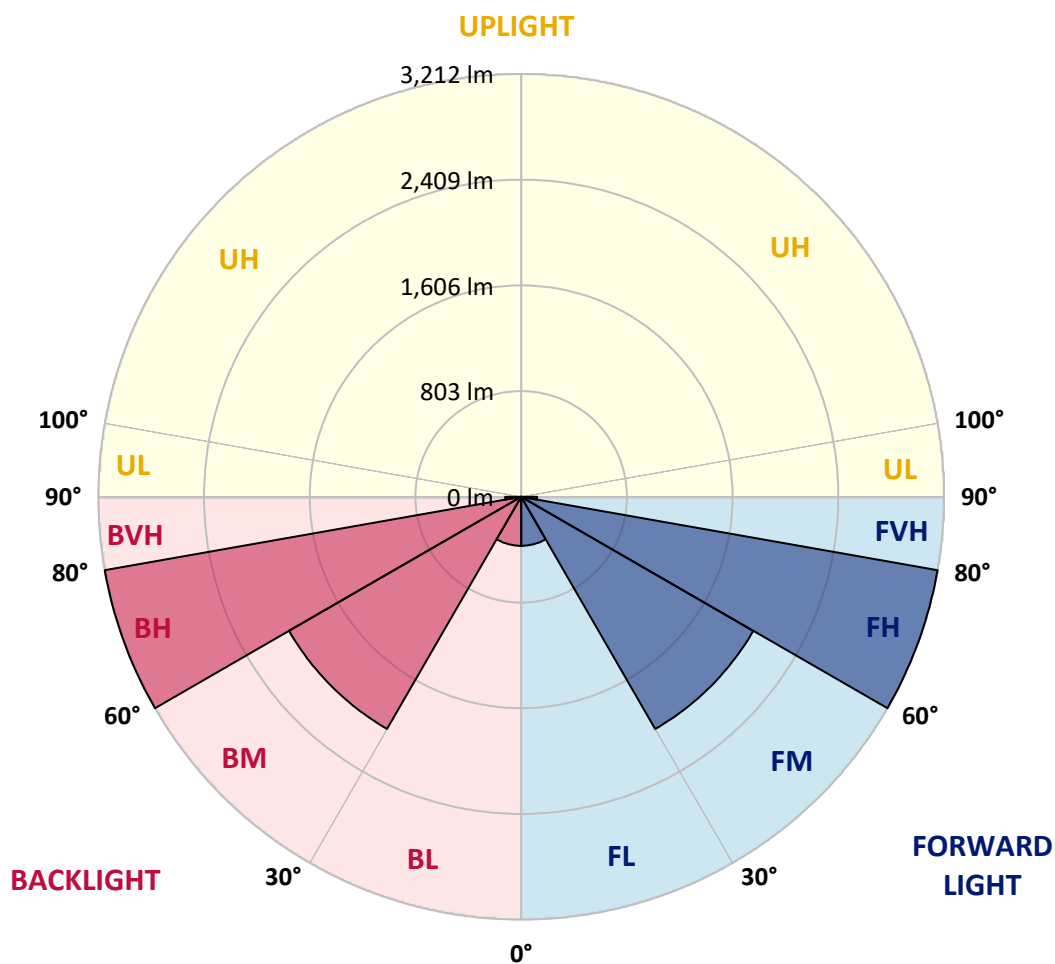
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.2	3.2			
FM	(30°-60°)	2036.2	17.7			
FH	(60°-80°)	3212.2	28.0			G2/5000
FVH	(80°-90°)	121.3	1.1			G2/225
BL	(0°-30°)	372.2	3.2	B1/500		
BM	(30°-60°)	2036.2	17.7	B2/2500		
BH	(60°-80°)	3212.2	28.0	B4/5000		G2/5000
BVH	(80°-90°)	121.3	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°	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2
2.5°	813.2	813.8	814.3	813.8	813.8	813.2	812.7	813.2	812.7	811.7	812.2
5°	815.9	816.9	816.9	815.9	816.4	815.9	814.8	815.4	814.3	812.7	812.7
7.5°	819.0	819.6	819.6	818.5	819.0	818.0	816.9	816.4	815.4	813.2	811.7
10°	823.8	824.3	823.8	822.7	822.7	821.1	818.5	817.5	815.4	812.2	810.6
12.5°	829.0	829.6	829.0	828.0	827.5	824.8	822.7	821.1	819.6	816.9	814.3
15°	836.4	837.5	836.4	834.3	832.7	830.6	829.6	830.1	830.6	828.5	825.9
17.5°	850.1	850.6	849.1	844.3	842.2	840.1	840.1	841.2	842.7	841.7	839.1
20°	875.4	873.8	870.1	864.3	861.7	858.0	857.5	858.0	858.0	857.5	855.4
22.5°	907.0	905.9	901.2	893.8	890.1	888.0	884.9	882.2	881.7	880.1	878.0
25°	944.9	944.4	938.6	932.3	929.6	927.0	924.4	920.7	917.5	913.8	911.7
27.5°	993.4	991.3	982.8	979.7	976.0	974.4	970.7	966.5	963.9	959.1	956.5
30°	1046.6	1046.6	1039.7	1038.7	1038.7	1035.0	1030.8	1023.4	1018.7	1013.9	1012.3
32.5°	1099.8	1100.3	1093.5	1095.6	1097.1	1099.8	1100.8	1098.2	1095.0	1094.5	1091.4
35°	1176.7	1174.6	1167.7	1169.3	1168.8	1168.3	1168.3	1174.0	1175.1	1176.2	1169.8
37.5°	1272.0	1272.0	1265.2	1265.2	1262.0	1258.8	1254.6	1258.3	1264.1	1265.7	1261.5
40°	1381.0	1384.7	1376.3	1375.8	1376.8	1366.8	1362.1	1367.9	1371.6	1377.9	1373.1
42.5°	1509.6	1506.9	1498.5	1497.4	1491.7	1488.5	1484.3	1489.0	1494.8	1499.0	1500.6
45°	1632.8	1630.7	1621.2	1621.2	1615.4	1612.8	1614.9	1622.8	1625.4	1631.2	1637.0
47.5°	1754.5	1751.8	1745.5	1748.2	1748.7	1753.4	1760.3	1767.7	1775.0	1782.9	1785.6
50°	1878.8	1879.3	1872.5	1878.8	1886.7	1899.9	1918.3	1930.4	1945.7	1955.7	1958.8
52.5°	1992.0	1994.1	2001.5	2016.3	2032.1	2057.9	2089.5	2119.0	2144.3	2161.1	2160.1
55°	2127.9	2131.1	2149.0	2174.3	2200.1	2239.1	2285.9	2338.1	2380.2	2404.4	2389.2
57.5°	2301.7	2308.6	2328.6	2362.8	2401.3	2451.9	2516.1	2594.6	2659.9	2692.6	2667.8
60°	2540.3	2544.6	2568.8	2606.7	2653.1	2715.7	2801.6	2906.9	2999.1	3042.3	3013.9
62.5°	2854.8	2862.7	2882.2	2920.6	2968.0	3039.1	3144.0	3275.6	3390.5	3450.5	3386.2
65°	3230.3	3255.6	3271.9	3310.9	3355.2	3430.5	3540.0	3681.2	3804.5	3844.0	3769.7
67.5°	3602.2	3624.3	3652.8	3697.5	3742.3	3827.1	3928.8	4065.7	4201.1	4236.9	4121.5
70°	3764.9	3777.6	3821.8	3882.9	3968.8	4068.9	4186.3	4340.1	4507.6	4537.1	4390.7
72.5°	3438.9	3451.6	3501.1	3604.8	3754.4	3913.5	4118.4	4344.3	4565.6	4598.7	4397.0
75°	2600.9	2580.4	2653.6	2791.1	2992.8	3214.5	3501.1	3825.0	4144.7	4186.3	3945.6
77.5°	1344.2	1341.5	1396.8	1567.5	1808.2	2060.5	2376.0	2742.1	3054.9	3181.3	2985.4
80°	378.7	382.9	409.3	494.1	634.7	816.9	1063.4	1406.3	1662.3	1792.9	1683.4
82.5°	148.5	160.1	170.1	185.9	204.4	231.2	308.7	459.3	616.3	736.3	603.1
85°	53.2	56.9	80.6	95.3	96.9	102.2	116.4	135.9	163.8	195.4	160.6
87.5°	20.0	22.1	25.8	42.7	42.1	38.5	46.9	49.0	36.9	33.7	41.6
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°	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2
2.5°	811.1	811.7	811.7	812.2	812.7	812.7	813.8	813.8
5°	811.7	811.7	810.6	811.1	810.6	810.6	811.1	811.1
7.5°	810.6	810.1	809.0	808.5	807.5	807.5	807.5	807.5
10°	809.0	808.5	807.5	806.9	806.4	806.4	806.4	806.4
12.5°	813.2	811.7	810.6	810.1	810.1	810.1	810.1	810.1
15°	824.3	820.6	818.0	818.0	818.5	819.6	819.6	820.6
17.5°	838.0	833.8	831.2	829.0	830.1	831.7	832.7	833.8
20°	854.3	852.2	848.5	846.4	846.4	848.5	849.6	850.1
22.5°	877.0	875.4	873.8	871.2	871.2	872.2	874.3	874.3
25°	910.7	909.6	908.6	906.5	905.9	905.9	907.0	908.1
27.5°	952.8	953.4	952.3	951.8	950.2	949.7	951.2	950.7
30°	1009.2	1011.8	1014.5	1012.3	1009.7	1008.1	1006.5	1004.4
32.5°	1085.6	1082.4	1080.3	1076.6	1071.9	1067.6	1064.5	1060.8
35°	1157.7	1152.4	1150.3	1153.5	1153.0	1150.3	1146.7	1143.5
37.5°	1246.2	1245.2	1246.2	1252.0	1250.9	1253.6	1246.2	1245.7
40°	1357.9	1358.9	1366.3	1373.1	1376.8	1380.5	1376.3	1372.1
42.5°	1487.4	1486.9	1489.5	1499.0	1505.3	1509.6	1500.6	1499.6
45°	1624.4	1620.7	1622.8	1630.7	1637.0	1641.8	1631.8	1631.8
47.5°	1775.0	1768.7	1761.9	1770.8	1774.5	1777.7	1769.8	1767.1
50°	1943.0	1929.9	1915.1	1918.8	1918.8	1917.8	1907.8	1907.2
52.5°	2135.8	2111.6	2084.7	2074.7	2068.9	2062.6	2045.2	2036.8
55°	2357.6	2321.2	2279.1	2253.3	2239.6	2222.2	2193.2	2185.3
57.5°	2616.7	2559.8	2487.1	2455.5	2425.0	2396.5	2364.4	2355.5
60°	2923.8	2840.0	2743.7	2685.2	2652.0	2624.6	2591.4	2589.9
62.5°	3266.2	3133.9	3024.9	2972.2	2948.0	2923.8	2892.2	2896.4
65°	3614.3	3476.3	3374.1	3331.5	3308.8	3288.8	3257.2	3261.9
67.5°	3957.7	3830.8	3718.6	3674.9	3649.6	3624.3	3595.9	3600.6
70°	4204.2	4046.7	3920.3	3823.4	3762.8	3694.4	3650.1	3639.1
72.5°	4133.6	3890.8	3690.2	3497.9	3385.2	3293.5	3231.4	3204.5
75°	3577.4	3245.6	2987.5	2751.6	2618.8	2510.8	2432.4	2383.4
77.5°	2656.7	2283.8	1978.9	1707.1	1492.2	1347.9	1246.2	1180.4
80°	1454.3	1106.1	808.5	568.3	417.7	347.1	306.5	287.1
82.5°	453.0	292.3	215.4	185.9	172.8	165.4	153.3	133.8
85°	144.3	126.4	117.5	112.2	106.9	93.2	64.3	58.5
87.5°	55.8	57.4	56.9	53.7	54.8	39.5	31.6	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)