

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: P193669

Luminaire Tested: **GAN-AF-01-LED-U-SL3-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL3-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4344 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

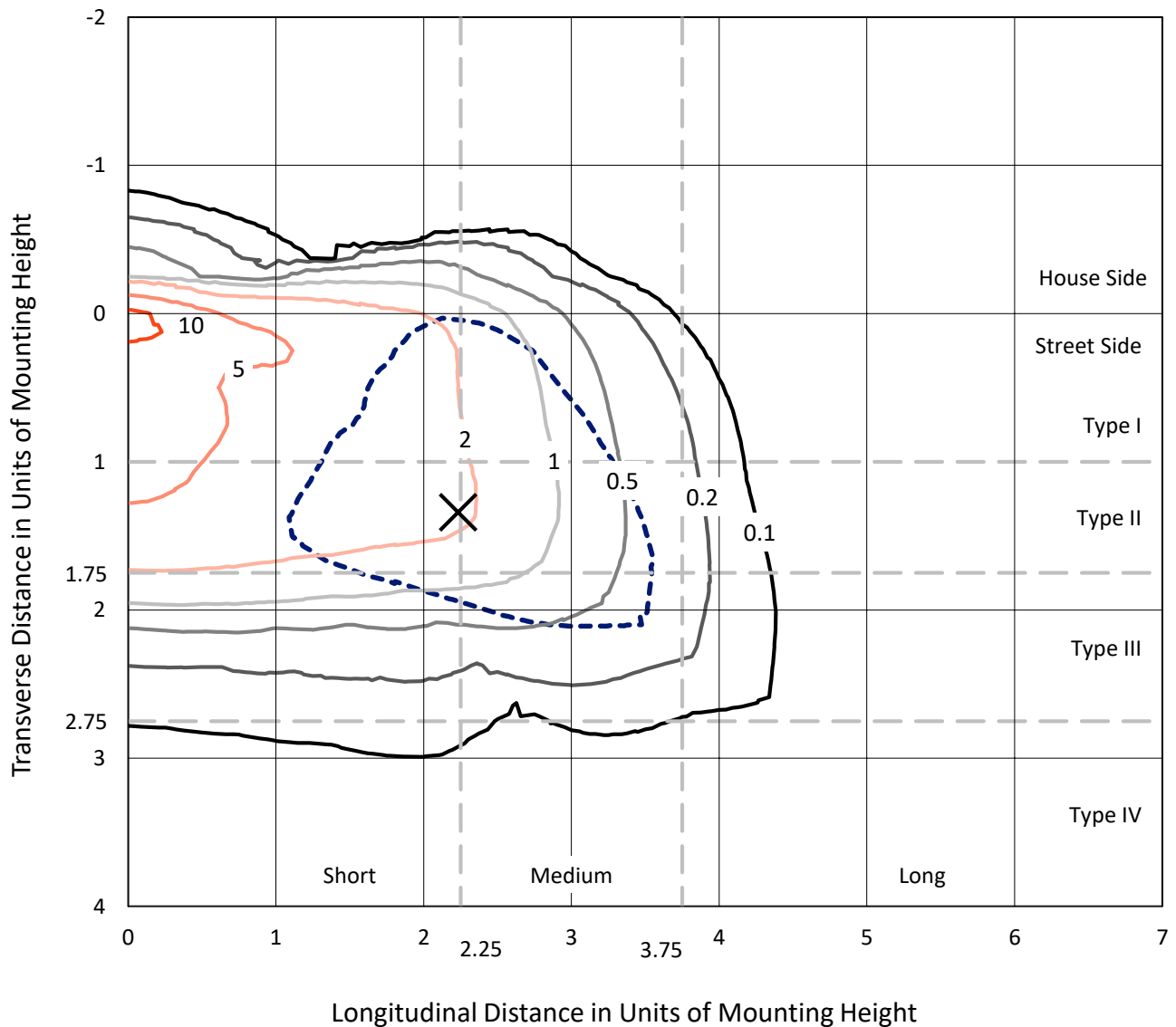
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

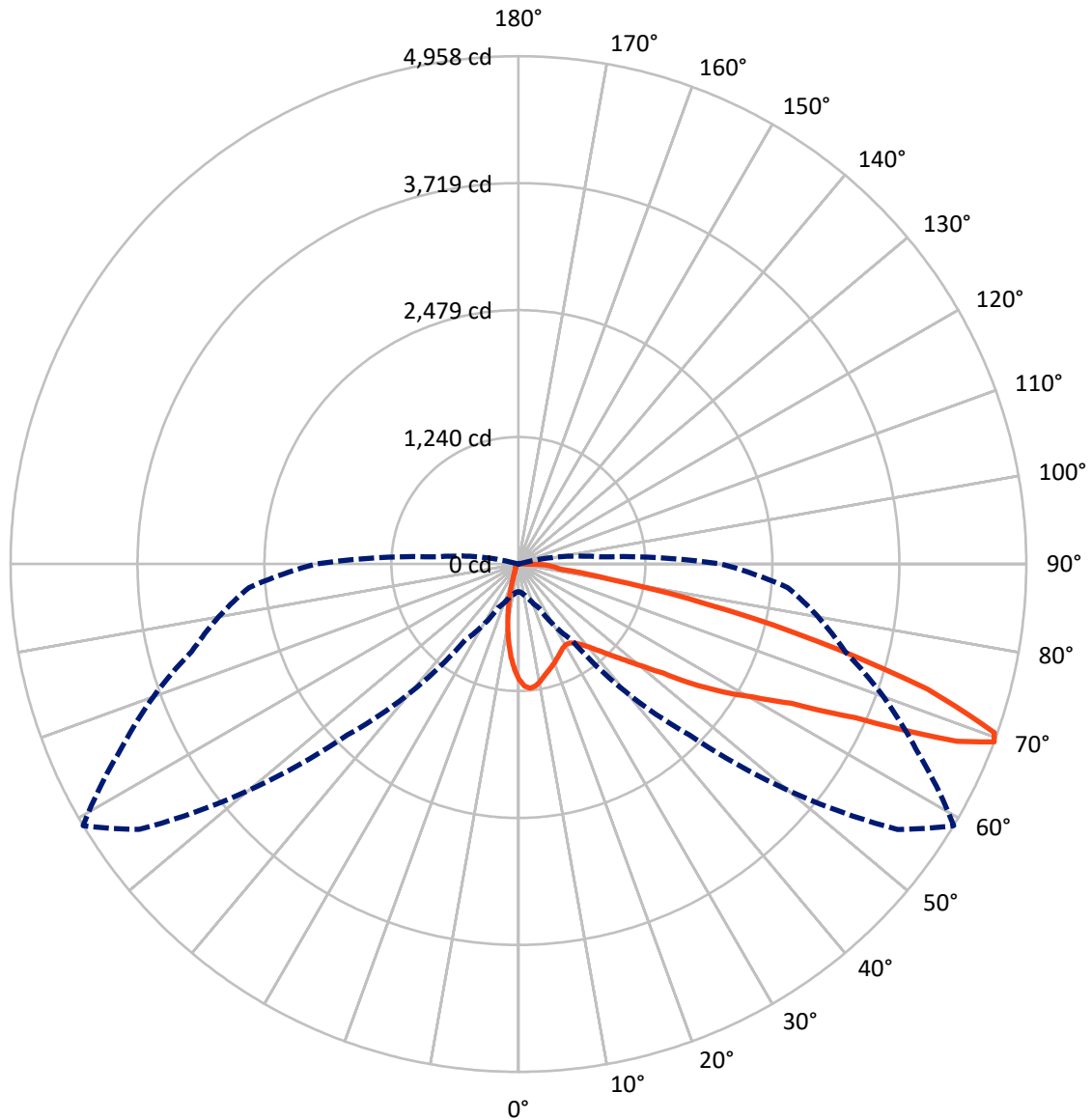
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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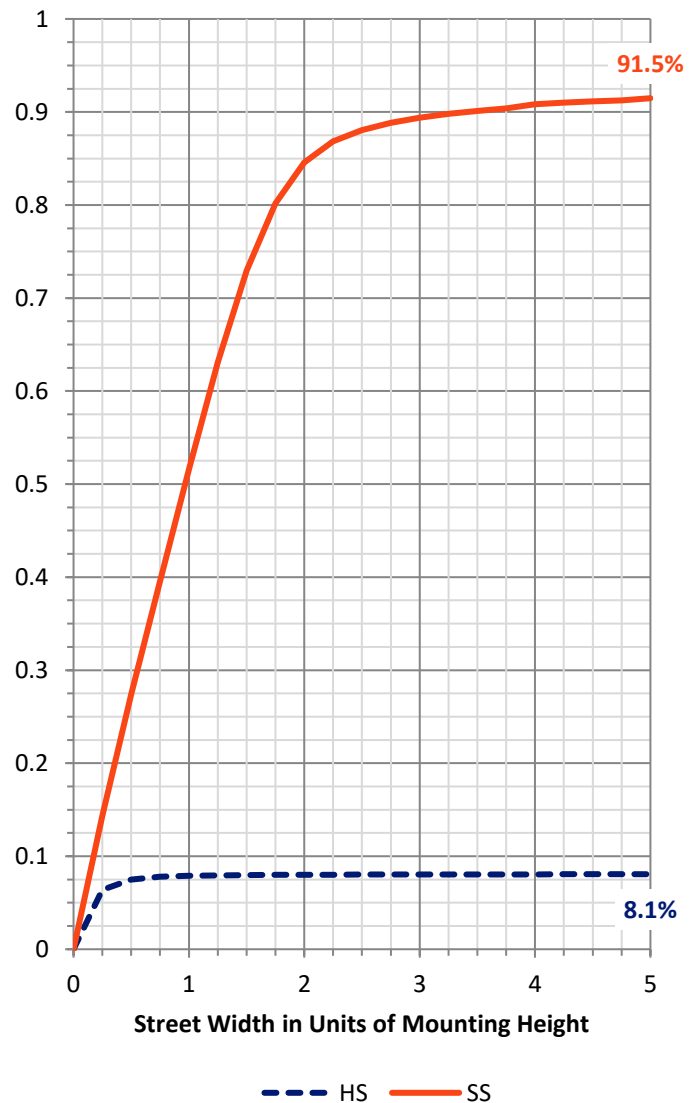
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.8	0.0	353.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3990.2	0.0	3990.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	4344.0	0.0	4344.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	2.1
10°-20°	189.6	4.4
20°-30°	255.2	5.9
30°-40°	370.5	8.5
40°-50°	616.9	14.2
50°-60°	962.4	22.2
60°-70°	1190.9	27.4
70°-80°	603.5	13.9
80°-90°	63.2	1.5
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°	4344.0	100.0
0°-180°	4344.0	100.0



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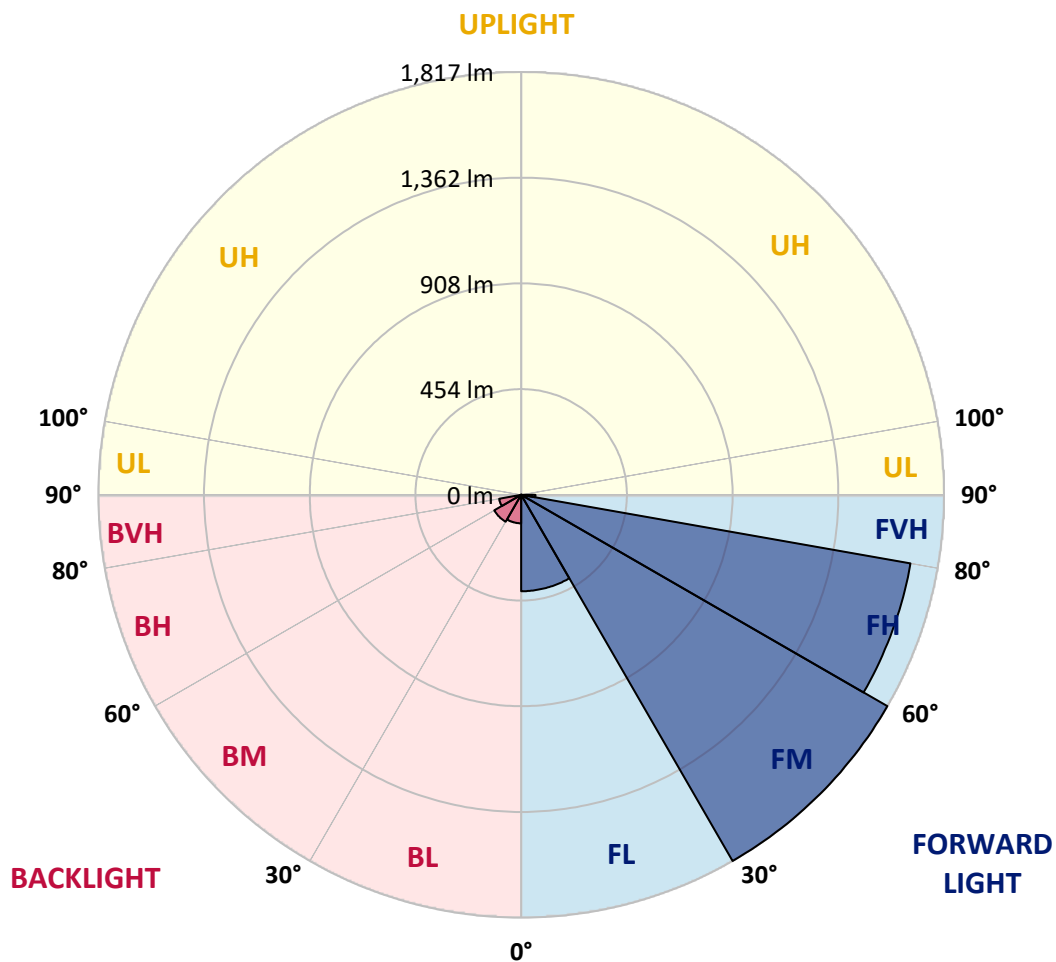
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.2	9.5			
FM	(30°-60°)	1816.5	41.8			
FH	(60°-80°)	1698.3	39.1			G1/1800
FVH	(80°-90°)	61.2	1.4			G1/100
BL	(0°-30°)	122.4	2.8	B1/500		
BM	(30°-60°)	133.3	3.1	B0/220		
BH	(60°-80°)	96.1	2.2	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	1239.3	1238.8	1233.4	1230.9	1226.5	1217.1	1202.7	1195.0	1182.8	1161.4	1132.6
5°	1228.0	1233.9	1237.0	1237.3	1240.5	1237.0	1224.0	1217.6	1200.7	1166.3	1114.7
7.5°	1151.3	1153.5	1162.6	1170.5	1185.7	1200.2	1204.9	1202.2	1192.1	1155.2	1086.7
10°	1069.3	1071.5	1082.3	1092.6	1113.2	1135.6	1159.2	1164.1	1168.3	1139.5	1059.7
12.5°	998.5	1000.7	1011.8	1025.3	1049.4	1076.9	1113.5	1121.6	1140.0	1124.5	1038.1
15°	937.6	938.6	949.4	966.1	994.8	1030.2	1071.7	1084.7	1113.0	1114.0	1019.2
17.5°	885.8	888.2	894.9	910.8	942.3	986.0	1034.4	1053.1	1086.2	1105.1	1000.7
20°	854.1	856.5	856.3	865.1	893.4	940.1	997.1	1019.4	1059.7	1096.0	984.3
22.5°	848.0	848.0	841.6	840.3	857.0	896.1	958.2	985.5	1035.9	1092.1	972.7
25°	869.8	868.8	852.9	839.8	840.6	863.9	920.7	953.1	1015.7	1094.8	966.6
27.5°	916.0	914.8	894.6	869.8	849.9	849.7	892.2	927.0	999.8	1107.6	969.1
30°	979.9	979.4	957.5	926.3	890.2	857.0	882.3	914.0	989.4	1130.7	974.7
32.5°	1049.6	1048.9	1032.4	999.5	953.8	890.2	892.7	919.2	992.4	1161.4	988.5
35°	1123.6	1122.3	1115.2	1086.5	1036.1	951.4	926.6	947.2	1011.1	1207.3	1015.5
37.5°	1203.6	1204.9	1210.0	1182.5	1129.7	1037.1	983.3	997.3	1048.6	1269.7	1059.4
40°	1321.8	1321.5	1323.3	1287.2	1236.3	1142.0	1062.6	1067.1	1111.5	1352.5	1126.3
42.5°	1536.2	1521.3	1475.8	1402.1	1351.0	1261.9	1162.6	1157.9	1188.4	1454.9	1219.9
45°	1824.4	1792.4	1674.5	1533.3	1467.9	1397.0	1285.7	1270.7	1290.1	1578.0	1335.3
47.5°	2072.2	2039.1	1872.3	1669.9	1592.0	1525.2	1429.9	1402.9	1409.2	1715.8	1481.7
50°	2156.5	2140.3	1994.6	1788.8	1712.1	1686.6	1597.2	1564.2	1555.1	1875.2	1651.4
52.5°	2127.2	2126.0	2029.0	1865.9	1822.2	1853.6	1807.7	1769.6	1736.2	2043.2	1824.1
55°	2080.3	2086.5	2043.0	1933.4	1932.0	2006.1	2095.6	2063.9	1967.1	2225.7	1973.0
57.5°	1950.9	1977.2	2035.1	2061.2	2121.6	2197.5	2335.3	2354.0	2239.5	2365.5	2096.5
60°	1582.9	1640.6	1830.3	2079.6	2366.0	2555.2	2624.7	2640.6	2463.0	2481.7	2263.3
62.5°	1123.6	1182.5	1423.0	1844.8	2369.7	3025.1	3055.8	2993.1	2709.2	2653.9	2551.0
65°	596.4	641.9	838.4	1331.6	2054.5	3134.1	3809.6	3623.0	3143.5	2992.6	2922.6
67.5°	305.1	318.8	397.0	651.7	1412.4	2783.8	4485.4	4616.8	3891.9	3328.7	2904.7
69°	270.0	278.1	329.9	471.1	904.4	2357.9	4518.3	4958.0	4283.7	3300.7	2639.7
70°	261.4	268.5	315.6	426.4	707.0	1977.4	4392.3	4928.0	4383.9	3194.1	2441.7
72.5°	221.8	228.0	281.0	376.8	574.6	981.6	3567.9	4175.9	3933.9	2660.8	1767.4
75°	148.4	168.5	269.7	353.2	534.5	557.6	2352.3	3017.7	2803.2	1794.6	920.7
77.5°	35.6	38.3	76.1	281.0	488.8	490.8	1209.8	1876.0	1530.1	639.6	217.6
80°	19.2	18.4	21.4	55.8	455.2	460.6	544.6	910.6	546.3	106.1	71.7
82.5°	13.5	12.8	13.8	23.3	143.2	419.6	394.0	412.2	226.5	40.8	32.2
85°	4.9	4.7	7.6	21.1	45.0	241.2	404.8	340.0	183.5	18.7	23.6
87.5°	1.7	1.5	2.9	11.5	13.8	102.7	249.8	256.9	72.2	11.3	11.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7	1130.7
2.5°	1120.6	1105.4	1077.4	1048.6	1022.1	990.2	974.2	958.5	951.9	949.4	937.9
5°	1088.2	1062.4	1003.0	943.3	888.2	829.8	791.2	760.3	742.1	733.2	719.2
7.5°	1046.7	1004.4	914.3	822.2	736.4	651.9	589.3	541.1	508.0	492.0	477.5
10°	1006.4	950.1	821.9	696.4	580.0	467.9	381.5	318.8	278.8	260.4	248.6
12.5°	970.3	897.3	732.7	573.8	427.7	296.5	208.5	158.7	133.9	125.3	121.1
15°	938.1	848.7	648.5	457.4	289.6	169.5	114.0	97.0	93.1	93.1	92.6
17.5°	907.6	801.0	567.2	348.1	181.8	103.7	86.7	84.5	84.5	85.5	85.5
20°	878.4	755.6	488.6	249.8	114.5	82.3	78.4	77.9	78.4	79.6	79.6
22.5°	853.4	714.3	415.1	171.5	85.0	74.2	72.2	71.5	71.7	72.5	73.0
25°	834.7	679.4	345.9	116.2	73.2	67.6	65.3	64.1	63.1	63.1	63.6
27.5°	822.9	650.0	278.8	84.5	65.8	61.4	58.0	56.0	53.8	52.6	53.1
30°	814.3	622.0	215.9	69.0	59.0	54.5	50.1	46.9	43.7	42.3	42.7
32.5°	811.1	599.4	161.4	60.9	52.8	47.9	42.5	38.3	34.9	33.7	33.9
35°	819.7	581.4	118.2	55.0	47.9	41.8	35.6	31.0	28.2	27.5	27.8
37.5°	842.3	571.9	88.4	50.1	43.5	36.6	29.7	25.3	23.6	23.6	23.8
40°	885.0	571.6	71.0	46.7	39.5	31.7	24.6	21.4	20.4	20.9	21.1
42.5°	947.4	584.6	61.9	43.5	36.1	27.0	20.4	18.2	17.9	18.4	18.7
45°	1032.7	608.5	57.0	40.8	32.4	22.6	17.2	15.7	15.7	16.5	16.7
47.5°	1137.1	643.3	52.8	38.1	28.7	18.9	14.7	13.8	14.0	14.7	15.0
50°	1262.8	687.3	48.6	35.1	26.0	15.7	12.8	12.0	12.3	13.3	13.5
52.5°	1406.0	746.5	45.2	32.4	22.6	13.0	10.8	10.3	10.8	11.8	12.0
55°	1528.9	799.6	41.0	30.2	18.2	10.8	8.8	8.8	9.3	10.6	10.8
57.5°	1647.0	855.1	37.3	26.0	14.2	8.6	7.4	7.6	8.4	9.6	9.8
60°	1820.4	949.2	32.9	21.9	10.8	6.9	6.1	6.4	7.4	8.6	8.8
62.5°	2115.0	1092.4	28.5	18.2	8.4	5.4	4.9	5.4	6.6	8.1	8.4
65°	2380.7	1150.6	23.3	15.2	6.4	4.2	4.2	4.9	6.4	7.9	8.1
67.5°	2232.6	968.6	18.2	12.0	4.9	3.2	3.4	4.7	6.1	7.9	8.1
69°	1974.5	791.9	15.5	9.6	4.2	2.9	3.2	4.7	6.1	7.6	7.9
70°	1773.3	668.6	13.8	8.1	3.7	2.9	3.2	4.4	6.1	7.6	7.9
72.5°	1187.7	361.1	11.1	5.9	3.4	2.7	2.7	4.4	5.9	7.4	7.6
75°	510.4	99.7	8.8	4.2	2.9	2.5	2.5	4.2	5.6	7.1	7.6
77.5°	93.3	25.3	7.1	3.7	2.9	2.5	2.2	3.9	5.4	6.9	7.1
80°	37.1	12.5	5.6	3.2	2.7	2.2	2.0	3.7	5.2	6.6	6.9
82.5°	22.4	7.1	4.7	2.9	2.7	2.0	1.7	3.2	4.9	6.4	6.6
85°	18.2	4.9	3.7	2.9	2.5	2.0	1.5	2.9	4.4	6.1	6.4
87.5°	8.8	3.4	3.4	2.7	2.5	2.0	1.5	2.7	4.2	5.9	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)