

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: P322998

Luminaire Tested: **GAN-SA4B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12283 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

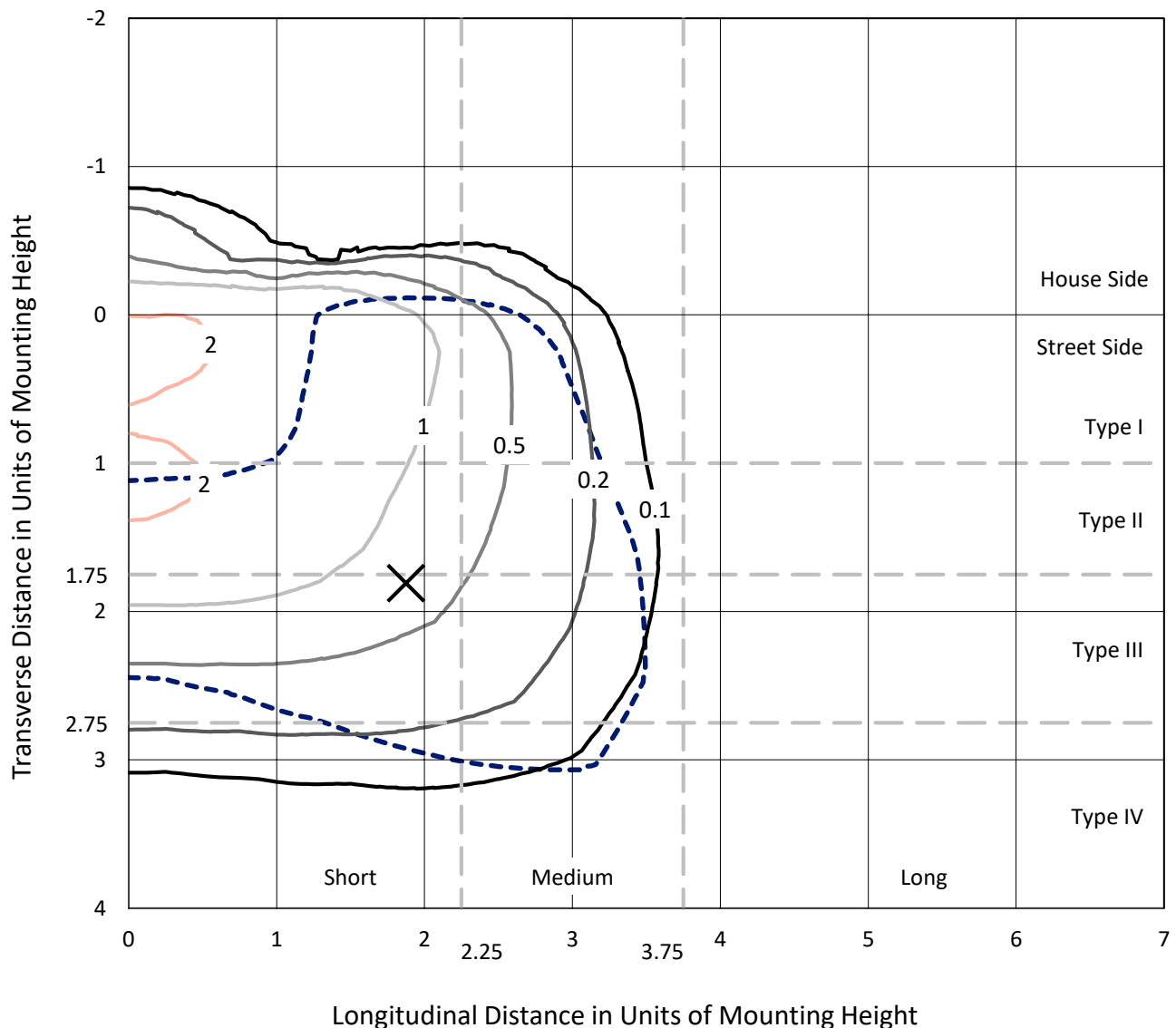
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

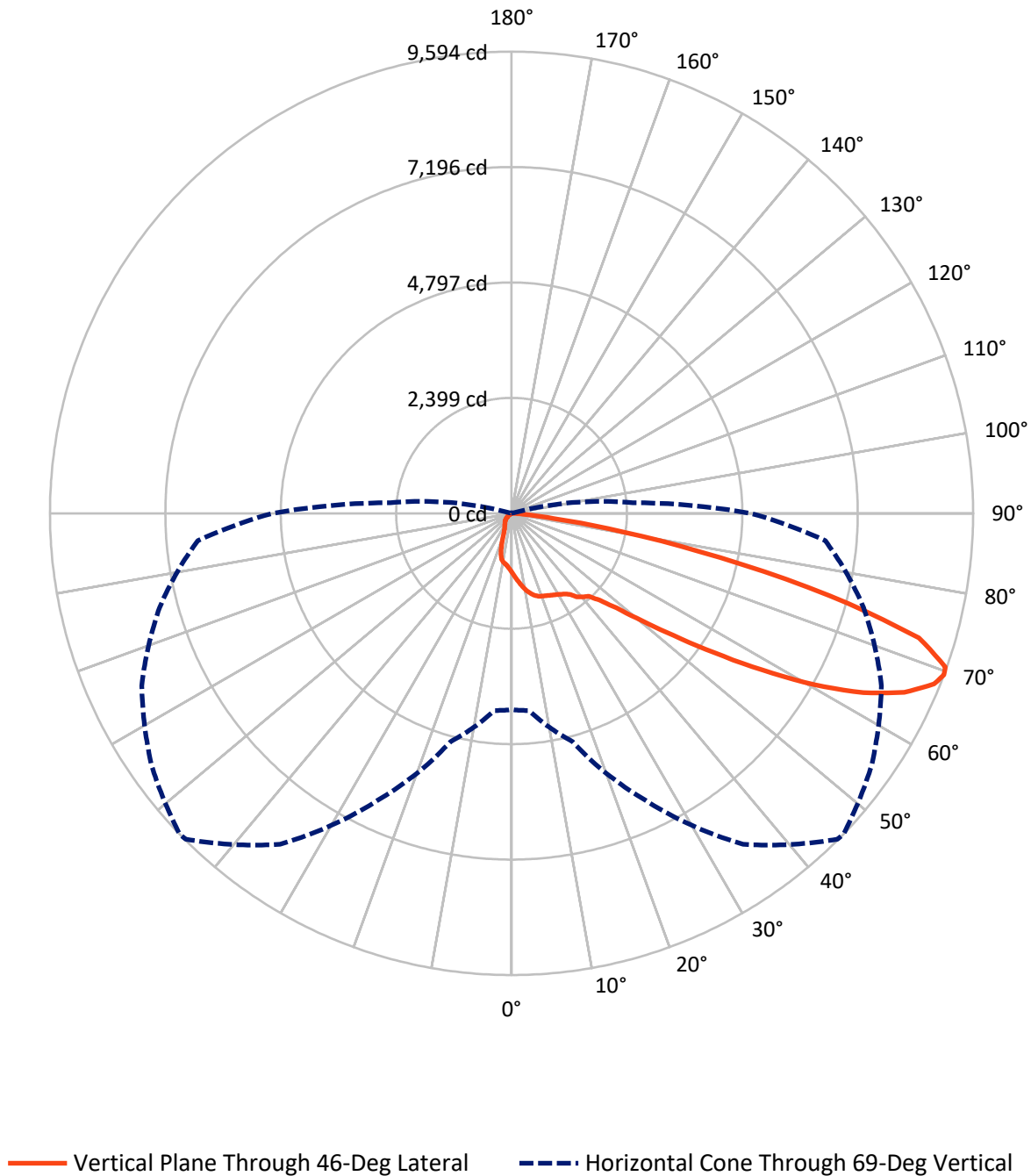
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.6	0.0	1260.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	11022.4	0.0	11022.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	12283.0	0.0	12283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.0
10°-20°	371.6	3.0
20°-30°	584.5	4.8
30°-40°	838.1	6.8
40°-50°	1448.6	11.8
50°-60°	2861.8	23.3
60°-70°	3999.6	32.6
70°-80°	1932.2	15.7
80°-90°	124.2	1.0
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°	12283.0	100.0
0°-180°	12283.0	100.0

Coefficient of Utilization



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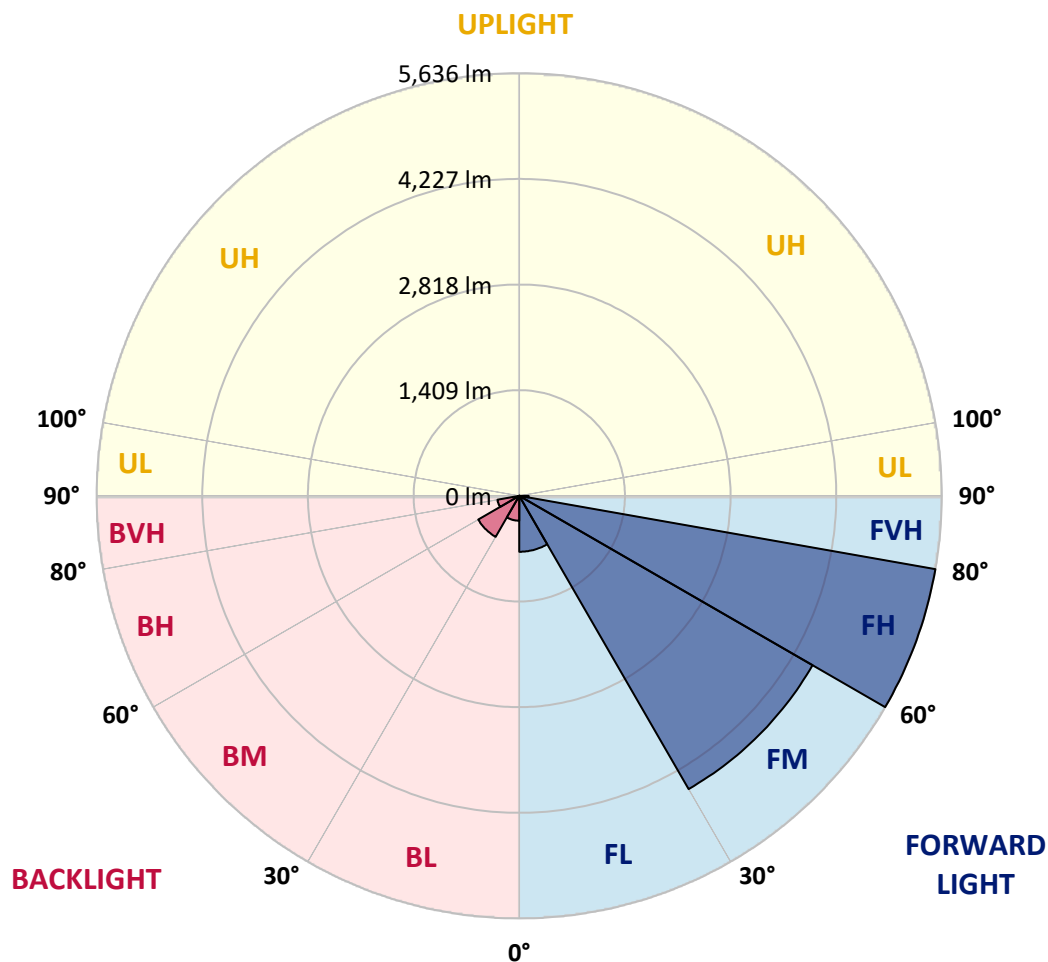
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.3	6.1			
FM	(30°-60°)	4516.7	36.8			
FH	(60°-80°)	5636.2	45.9			G3/7500
FVH	(80°-90°)	123.1	1.0			G2/225
BL	(0°-30°)	332.2	2.7	B1/500		
BM	(30°-60°)	631.7	5.1	B1/1000		
BH	(60°-80°)	295.6	2.4	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7
2.5°	1367.2	1365.5	1357.4	1354.0	1334.4	1322.9	1318.2	1303.9	1283.1	1262.4	1239.3
5°	1522.7	1522.1	1507.1	1492.7	1455.9	1421.3	1415.0	1381.6	1334.9	1291.2	1247.4
7.5°	1681.6	1674.2	1659.2	1631.5	1578.0	1522.7	1517.5	1470.3	1404.1	1340.7	1277.9
10°	1816.4	1811.8	1792.2	1750.2	1687.4	1624.6	1618.3	1560.1	1485.3	1407.5	1327.5
12.5°	1921.2	1917.8	1891.9	1839.4	1772.6	1707.6	1698.9	1647.1	1567.0	1480.1	1385.6
15°	1985.1	1983.4	1951.7	1895.9	1830.2	1773.8	1766.3	1720.8	1646.5	1555.5	1449.0
17.5°	2000.1	2000.7	1967.9	1911.4	1857.3	1817.0	1811.2	1776.7	1714.5	1624.1	1512.3
20°	1966.7	1973.6	1944.3	1895.3	1861.9	1840.6	1836.0	1815.3	1762.8	1677.6	1563.0
22.5°	1919.5	1922.9	1902.8	1870.0	1856.1	1860.2	1857.9	1846.4	1802.0	1723.7	1613.1
25°	1890.7	1890.7	1878.6	1851.0	1860.2	1884.9	1885.5	1883.2	1848.1	1780.1	1674.2
27.5°	1889.5	1886.1	1872.3	1851.5	1876.9	1914.9	1917.2	1932.7	1910.9	1848.7	1750.2
30°	1935.6	1931.6	1902.2	1875.1	1907.4	1948.3	1954.0	1988.0	1977.1	1922.9	1834.8
32.5°	2043.3	2028.9	1963.8	1919.5	1943.7	1992.6	2000.1	2054.3	2071.5	2014.5	1916.6
35°	2190.7	2145.2	2051.4	2003.6	2005.9	2057.1	2064.0	2143.5	2194.8	2098.6	1980.0
37.5°	2394.0	2371.6	2219.0	2091.1	2101.5	2179.2	2199.4	2285.8	2271.4	2144.7	2052.0
40°	2839.8	2804.7	2642.3	2336.4	2193.0	2278.3	2284.6	2330.7	2331.8	2248.9	2201.7
42.5°	3446.8	3432.4	3261.4	2781.6	2373.3	2344.5	2356.0	2433.8	2520.7	2468.9	2466.6
45°	4118.9	4111.4	3930.0	3372.5	2737.9	2561.6	2576.0	2680.3	2846.7	2858.2	2931.4
47.5°	4659.7	4656.2	4552.0	4031.9	3295.9	2929.6	2934.2	3044.8	3337.4	3481.9	3598.8
50°	5152.6	5169.3	5087.0	4745.5	4056.1	3506.1	3495.2	3568.9	4038.8	4275.5	4420.7
52.5°	5838.0	5861.6	5630.6	5411.2	4853.7	4221.4	4212.8	4289.9	4882.0	5059.3	5085.2
55°	6443.2	6402.9	6220.4	6157.0	5826.4	5104.8	5102.5	5170.5	5697.4	5772.9	5820.7
57.5°	6710.5	6694.9	6783.0	6928.1	6845.2	6148.9	6143.8	6091.9	6427.1	6435.2	6582.0
60°	6879.2	6898.2	7168.3	7615.8	7822.5	7272.5	7239.1	6923.0	7124.0	7106.1	7263.3
62.5°	6752.5	6789.9	7276.0	8021.8	8553.9	8253.3	8206.1	7684.3	7719.4	7657.8	7804.1
65°	6079.8	6138.0	6934.5	7945.2	8916.7	9019.8	8972.0	8356.4	8192.3	8090.9	8009.7
67.5°	4936.7	4971.2	5802.8	7278.9	8753.2	9477.1	9467.3	8945.5	8549.3	8017.8	7387.7
69°	4079.7	4113.7	4914.2	6577.4	8393.3	9575.0	9594.0	9134.4	8481.4	7573.2	6545.7
70°	3455.4	3491.7	4237.5	5976.2	7975.7	9529.5	9563.5	9116.6	8286.7	7058.3	5806.9
72.5°	1812.4	1843.5	2608.9	4117.2	6502.0	8750.3	8853.4	8346.0	7024.3	5126.1	3433.6
75°	569.6	587.4	1018.8	2152.2	4451.8	6803.8	6827.4	6546.9	4987.9	2819.6	1430.0
77.5°	217.1	211.9	339.2	793.0	2250.6	4284.2	4428.7	4091.2	2617.5	996.9	330.0
80°	116.9	117.5	176.2	328.3	962.9	2201.7	2323.8	1982.8	930.1	311.0	76.0
82.5°	50.7	53.0	99.1	173.9	442.3	812.0	873.1	726.8	355.3	209.1	28.2
85°	10.9	12.1	47.8	94.4	180.3	228.1	239.0	235.5	226.3	162.4	10.9
87.5°	0.0	0.0	21.3	34.0	45.5	51.8	45.5	59.3	125.0	109.4	5.8
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°	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7	1230.7
2.5°	1231.9	1221.5	1203.6	1184.1	1170.2	1155.8	1144.3	1139.1	1133.4	1129.4	1134.5
5°	1229.6	1209.4	1174.8	1141.4	1117.3	1097.7	1081.6	1075.2	1068.9	1064.3	1063.7
7.5°	1249.7	1221.5	1168.5	1119.6	1082.1	1055.6	1033.8	1024.5	1017.0	1013.6	1010.7
10°	1288.3	1252.0	1181.2	1117.3	1068.9	1024.0	976.7	940.5	916.8	905.9	901.9
12.5°	1338.4	1292.9	1205.4	1129.4	1059.1	972.7	872.5	786.1	730.2	711.8	700.9
15°	1397.1	1340.7	1237.0	1144.9	1023.4	865.6	695.7	582.8	531.0	520.6	509.1
17.5°	1453.6	1391.4	1275.1	1147.8	945.1	691.7	509.7	433.1	412.9	419.8	421.6
20°	1503.1	1441.5	1312.5	1122.4	802.8	518.9	394.5	375.5	383.0	396.2	398.5
22.5°	1553.2	1489.9	1347.0	1055.6	620.8	393.9	355.3	359.9	367.4	380.7	383.0
25°	1614.3	1548.6	1379.3	933.0	465.9	335.2	337.5	344.4	351.9	364.0	365.1
27.5°	1684.5	1622.9	1400.6	773.4	345.5	308.1	315.6	326.0	333.4	345.0	347.3
30°	1777.8	1720.8	1407.5	608.2	289.7	283.9	287.4	300.0	311.0	321.4	323.1
32.5°	1865.4	1817.6	1384.5	459.0	268.4	261.5	261.5	268.9	281.6	291.4	293.7
35°	1946.0	1914.9	1310.8	335.8	252.2	240.7	235.0	235.0	243.0	251.1	253.4
37.5°	2052.5	2051.4	1191.5	267.8	236.7	223.5	211.4	202.1	199.3	201.0	202.1
40°	2235.1	2236.8	1036.1	240.2	223.5	205.6	187.2	170.5	154.9	149.7	149.2
42.5°	2520.2	2494.2	873.1	226.9	211.9	187.2	159.5	137.1	112.9	105.4	104.8
45°	2972.8	2819.1	700.3	214.8	199.8	166.4	131.9	101.4	81.8	76.0	76.0
47.5°	3632.2	3245.8	542.5	201.6	183.7	142.8	99.6	73.1	59.9	57.0	57.6
50°	4314.1	3663.9	415.8	184.9	164.1	118.1	73.7	53.0	45.5	45.5	46.1
52.5°	4918.8	3970.3	324.2	167.0	139.9	92.7	55.9	41.5	38.0	37.4	38.0
55°	5484.9	4167.8	248.2	146.3	111.1	69.1	42.6	34.0	31.7	30.5	29.9
57.5°	6030.9	4265.7	186.0	118.1	80.6	50.1	34.0	28.8	26.5	24.8	24.2
60°	6394.3	4186.3	127.9	87.0	55.9	36.3	28.2	24.8	21.9	20.2	19.6
62.5°	6599.3	3969.1	82.4	62.8	39.7	27.1	22.5	20.7	16.7	15.0	15.0
65°	6516.4	3610.9	57.6	44.9	28.8	20.2	16.7	16.7	12.1	9.8	9.2
67.5°	5774.6	3050.6	43.8	33.4	20.7	15.0	12.7	14.4	7.5	4.6	4.6
69°	4968.3	2528.2	37.4	27.6	17.3	12.1	10.9	13.2	5.2	3.5	2.9
70°	4318.1	2181.0	34.0	24.2	14.4	10.4	9.8	12.7	5.2	2.9	2.3
72.5°	2583.5	1216.3	25.9	17.3	9.2	8.1	8.1	14.4	5.2	2.9	2.3
75°	1044.1	428.5	19.0	12.1	6.9	6.9	9.8	18.4	4.6	2.3	1.7
77.5°	236.7	93.9	10.9	7.5	4.6	6.9	11.5	14.4	2.9	1.2	0.0
80°	57.6	23.0	6.9	4.6	2.9	5.2	8.6	8.1	0.6	0.0	0.0
82.5°	19.0	8.1	2.9	2.3	0.6	1.7	4.0	2.3	0.0	0.0	0.0
85°	8.1	4.6	1.2	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)