

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: P323017

Luminaire Tested: **GAN-SA3D-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323017
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-SA3D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 12621 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

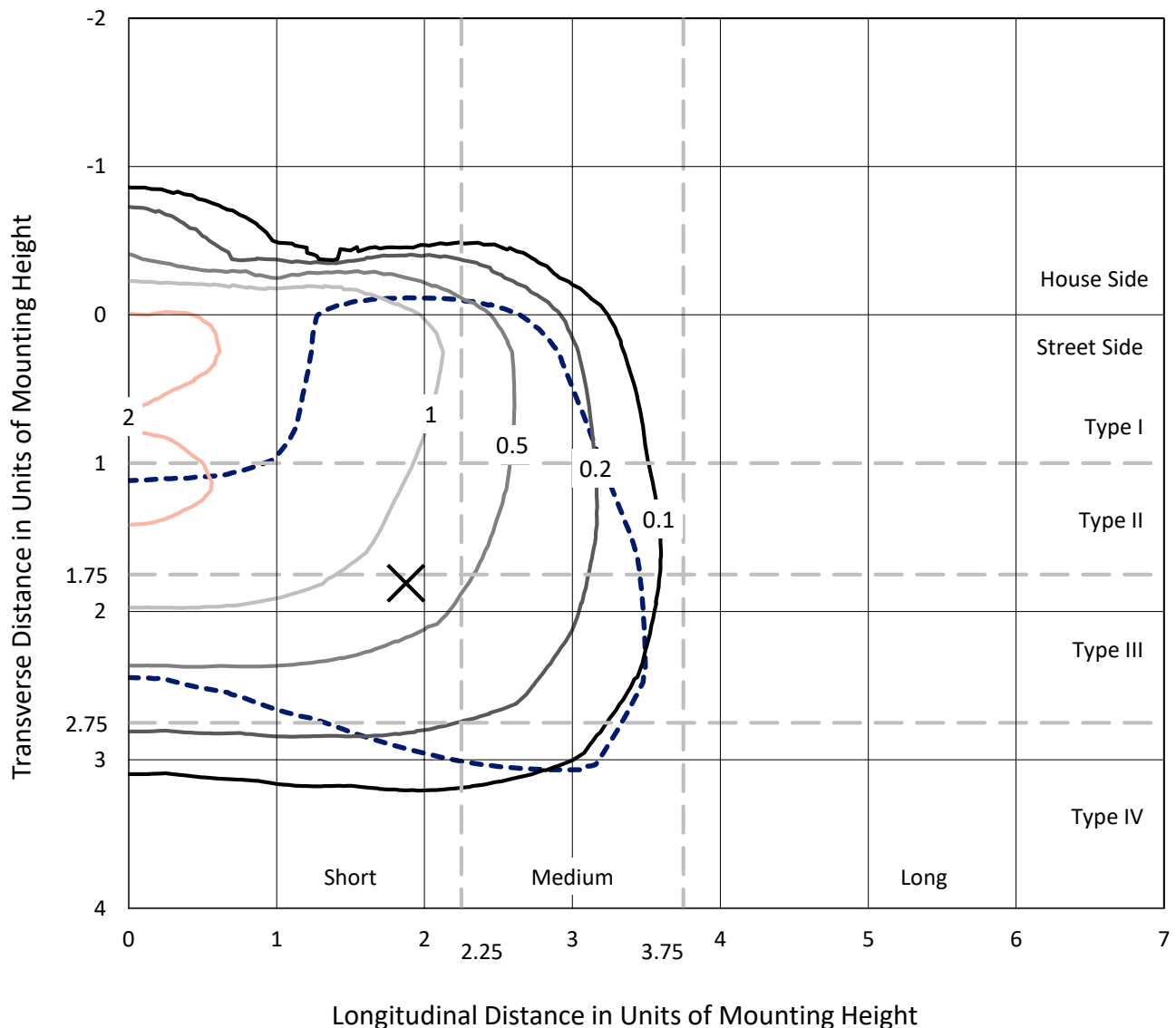
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323017
 CATALOG NUMBER: GAN-SA3D-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

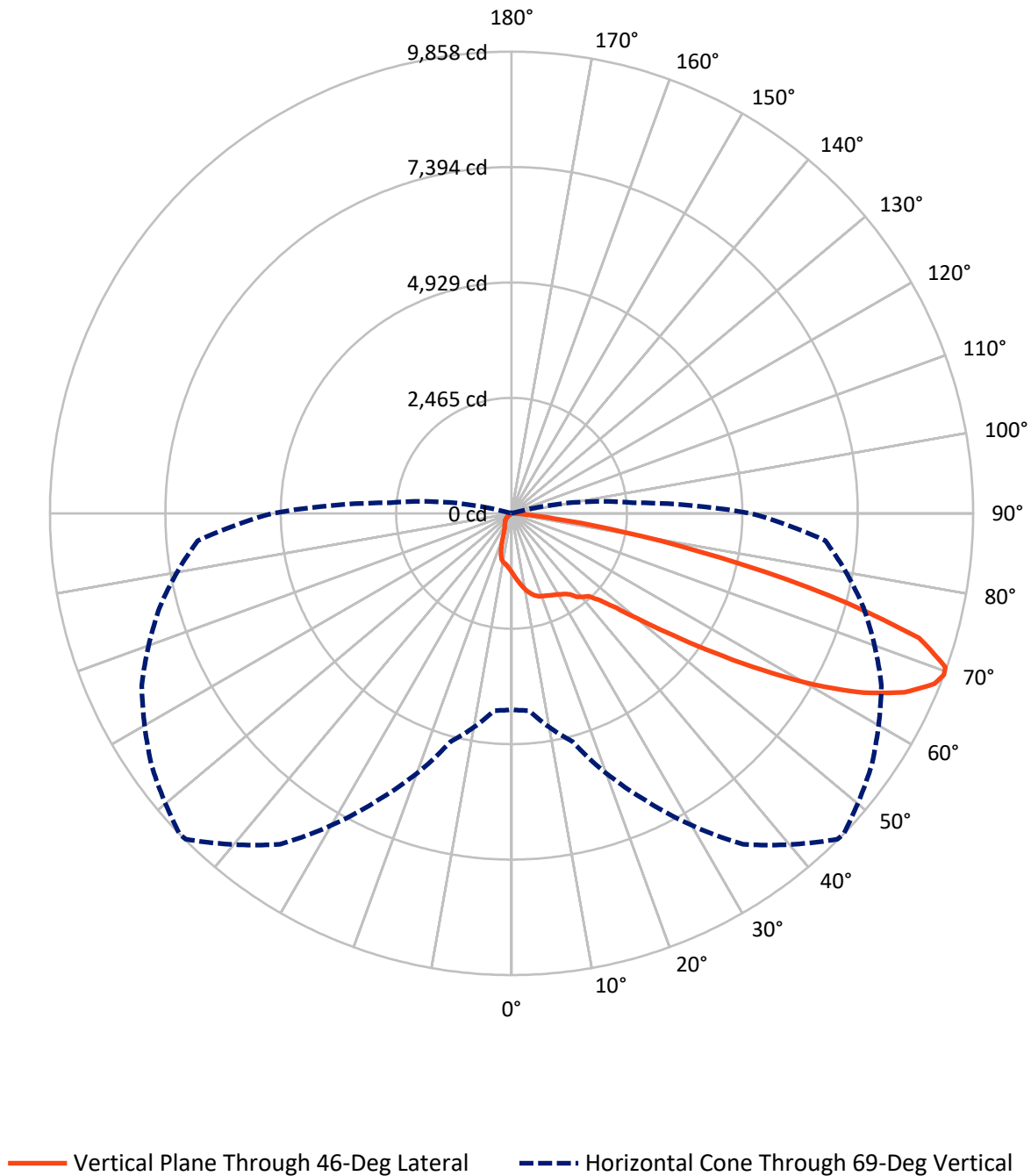
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P323017
CATALOG NUMBER: GAN-SA3D-827-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1295.3	0.0	1295.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	11325.7	0.0	11325.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	12621.0	0.0	12621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.0
10°-20°	381.9	3.0
20°-30°	600.5	4.8
30°-40°	861.2	6.8
40°-50°	1488.4	11.8
50°-60°	2940.5	23.3
60°-70°	4109.6	32.6
70°-80°	1985.4	15.7
80°-90°	127.6	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°	12621.0	100.0
0°-180°	12621.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323017

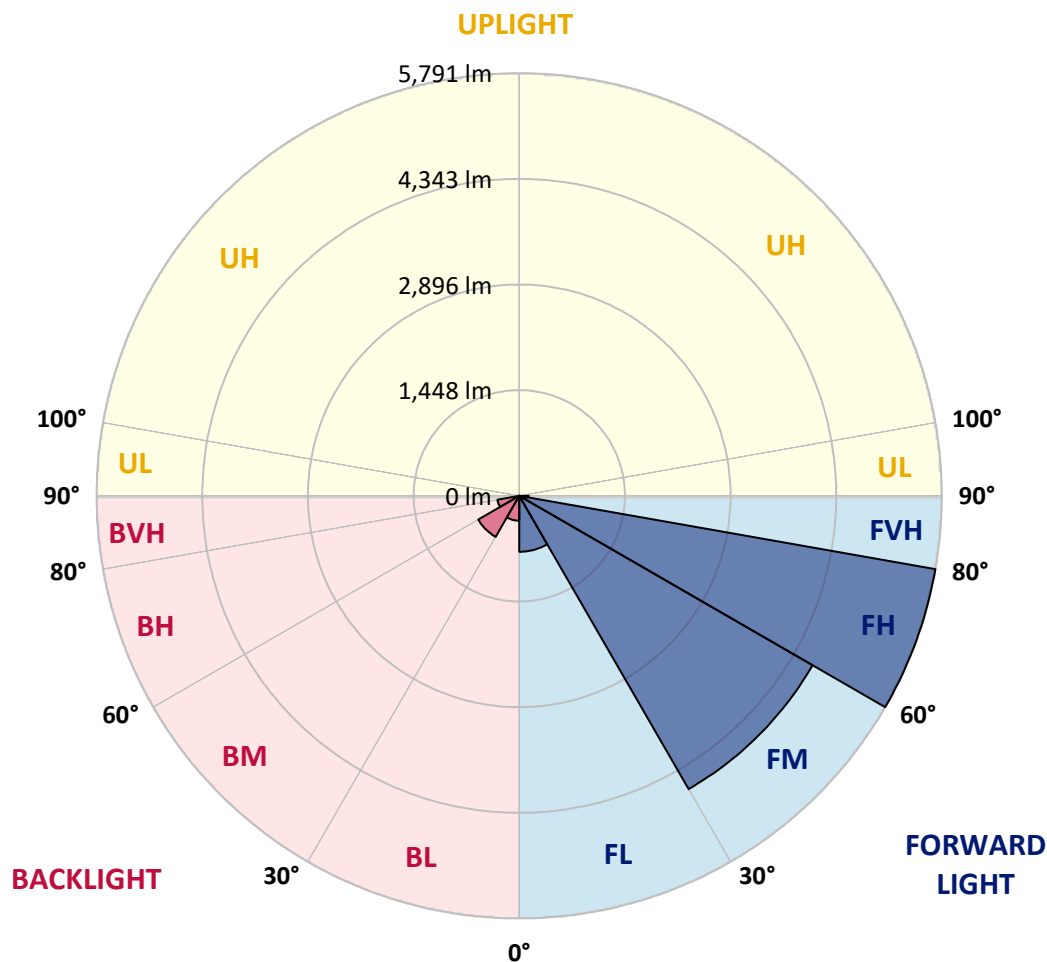
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.9	6.1			
FM	(30°-60°)	4641.0	36.8			
FH	(60°-80°)	5791.3	45.9			G3/7500
FVH	(80°-90°)	126.5	1.0			G2/225
BL	(0°-30°)	341.4	2.7	B1/500		
BM	(30°-60°)	649.1	5.1	B1/1000		
BH	(60°-80°)	303.7	2.4	B1/500		G1/500
BVH	(80°-90°)	1.1	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





REPORT NUMBER: P323017

CATALOG NUMBER: GAN-SA3D-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6
2.5°	1404.8	1403.0	1394.8	1391.2	1371.1	1359.3	1354.5	1339.7	1318.4	1297.1	1273.5
5°	1564.6	1564.0	1548.6	1533.8	1496.0	1460.4	1453.9	1419.6	1371.7	1326.7	1281.7
7.5°	1727.9	1720.2	1704.8	1676.4	1621.4	1564.6	1559.3	1510.7	1442.7	1377.6	1313.1
10°	1866.4	1861.7	1841.5	1798.3	1733.8	1669.3	1662.8	1603.1	1526.1	1446.2	1364.0
12.5°	1974.1	1970.5	1943.9	1890.1	1821.4	1754.5	1745.7	1692.4	1610.2	1520.8	1423.8
15°	2039.8	2038.0	2005.5	1948.1	1880.6	1822.6	1814.9	1768.2	1691.8	1598.3	1488.9
17.5°	2055.2	2055.8	2022.0	1964.0	1908.4	1867.0	1861.1	1825.6	1761.6	1668.7	1553.9
20°	2020.8	2027.9	1997.8	1947.5	1913.1	1891.2	1886.5	1865.2	1811.4	1723.8	1606.0
22.5°	1972.3	1975.9	1955.2	1921.4	1907.2	1911.4	1909.0	1897.2	1851.6	1771.1	1657.5
25°	1942.7	1942.7	1930.3	1901.9	1911.4	1936.8	1937.4	1935.0	1898.9	1829.1	1720.2
27.5°	1941.5	1938.0	1923.8	1902.5	1928.5	1967.6	1969.9	1985.9	1963.4	1899.5	1798.3
30°	1988.9	1984.7	1954.6	1926.7	1959.9	2001.9	2007.8	2042.7	2031.5	1975.9	1885.3
32.5°	2099.5	2084.7	2017.9	1972.3	1997.2	2047.5	2055.2	2110.8	2128.5	2070.0	1969.4
35°	2251.0	2204.3	2107.8	2058.7	2061.1	2113.7	2120.8	2202.5	2255.2	2156.3	2034.4
37.5°	2459.9	2436.8	2280.0	2148.7	2159.3	2239.2	2259.9	2348.7	2333.9	2203.7	2108.4
40°	2917.9	2881.8	2715.0	2400.7	2253.4	2341.0	2347.5	2394.8	2396.0	2310.8	2262.3
42.5°	3541.6	3526.9	3351.1	2858.2	2438.6	2409.0	2420.9	2500.7	2590.1	2536.8	2534.5
45°	4232.2	4224.5	4038.1	3465.3	2813.2	2632.1	2646.9	2754.0	2925.0	2936.9	3012.0
47.5°	4787.9	4784.3	4677.2	4142.9	3386.6	3010.2	3015.0	3128.6	3429.2	3577.7	3697.9
50°	5294.4	5311.6	5227.0	4876.0	4167.7	3602.6	3591.4	3667.1	4150.0	4393.2	4542.3
52.5°	5998.6	6022.9	5785.6	5560.1	4987.3	4337.6	4328.7	4408.0	5016.3	5198.6	5225.2
55°	6620.5	6579.1	6391.5	6326.4	5986.8	5245.3	5242.9	5312.8	5854.2	5931.7	5980.9
57.5°	6895.1	6879.1	6969.7	7118.8	7033.6	6318.2	6312.8	6259.6	6604.0	6612.3	6763.1
60°	7068.5	7088.0	7365.6	7825.3	8037.8	7472.7	7438.3	7113.5	7320.0	7301.6	7463.2
62.5°	6938.3	6976.8	7476.2	8242.5	8789.3	8480.4	8431.9	7895.8	7931.9	7868.5	8018.9
65°	6247.1	6306.9	7125.3	8163.8	9162.1	9268.0	9218.9	8586.3	8417.7	8313.5	8230.1
67.5°	5072.5	5108.0	5962.5	7479.2	8994.1	9737.9	9727.8	9191.7	8784.6	8238.4	7591.0
69°	4192.0	4226.9	5049.4	6758.4	8624.2	9838.5	9858.0	9385.8	8714.8	7781.6	6725.9
70°	3550.5	3587.8	4354.1	6140.6	8195.2	9791.7	9826.7	9367.5	8514.7	7252.5	5966.6
72.5°	1862.2	1894.2	2680.6	4230.4	6680.9	8991.1	9097.0	8575.7	7217.6	5267.2	3528.0
75°	585.2	603.6	1046.8	2211.4	4574.3	6991.0	7015.2	6727.1	5125.2	2897.2	1469.3
77.5°	223.1	217.8	348.5	814.8	2312.6	4402.1	4550.6	4203.8	2689.5	1024.3	339.1
80°	120.1	120.7	181.1	337.3	989.4	2262.3	2387.7	2037.4	955.7	319.5	78.1
82.5°	52.1	54.4	101.8	178.7	454.5	834.4	897.1	746.8	365.1	214.8	29.0
85°	11.2	12.4	49.1	97.0	185.2	234.3	245.6	242.0	232.6	166.9	11.2
87.5°	0.0	0.0	21.9	34.9	46.7	53.3	46.7	61.0	128.4	112.4	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323017

CATALOG NUMBER: GAN-SA3D-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6	1264.6
2.5°	1265.8	1255.1	1236.8	1216.6	1202.4	1187.6	1175.8	1170.5	1164.6	1160.4	1165.8
5°	1263.4	1242.7	1207.2	1172.9	1148.0	1127.9	1111.3	1104.8	1098.3	1093.6	1093.0
7.5°	1284.1	1255.1	1200.7	1150.4	1111.9	1084.7	1062.2	1052.7	1045.0	1041.5	1038.5
10°	1323.8	1286.5	1213.7	1148.0	1098.3	1052.1	1003.6	966.3	942.1	930.8	926.7
12.5°	1375.2	1328.5	1238.5	1160.4	1088.2	999.5	896.5	807.7	750.3	731.4	720.2
15°	1435.6	1377.6	1271.1	1176.4	1051.5	889.4	714.8	598.9	545.6	534.9	523.1
17.5°	1493.6	1429.7	1310.1	1179.4	971.1	710.7	523.7	445.0	424.3	431.4	433.2
20°	1544.5	1481.2	1348.6	1153.3	824.9	533.2	405.4	385.8	393.5	407.1	409.5
22.5°	1596.0	1530.9	1384.1	1084.7	637.9	404.8	365.1	369.8	377.5	391.1	393.5
25°	1658.7	1591.2	1417.2	958.6	478.7	344.4	346.8	353.9	361.6	374.0	375.2
27.5°	1730.9	1667.6	1439.1	794.7	355.1	316.6	324.3	334.9	342.6	354.5	356.8
30°	1826.7	1768.2	1446.2	624.9	297.7	291.7	295.3	308.3	319.5	330.2	332.0
32.5°	1916.7	1867.6	1422.6	471.6	275.8	268.7	268.7	276.3	289.4	299.4	301.8
35°	1999.5	1967.6	1346.8	345.0	259.2	247.4	241.4	241.4	249.7	258.0	260.4
37.5°	2109.0	2107.8	1224.3	275.2	243.2	229.6	217.2	207.7	204.7	206.5	207.7
40°	2296.6	2298.4	1064.6	246.8	229.6	211.3	192.3	175.2	159.2	153.9	153.3
42.5°	2589.5	2562.9	897.1	233.2	217.8	192.3	163.9	140.8	116.0	108.3	107.7
45°	3054.6	2896.6	719.6	220.7	205.3	171.0	135.5	104.1	84.0	78.1	78.1
47.5°	3732.2	3335.1	557.4	207.1	188.8	146.8	102.4	75.2	61.5	58.6	59.2
50°	4432.8	3764.7	427.2	190.0	168.6	121.3	75.7	54.4	46.7	46.7	47.3
52.5°	5054.2	4079.5	333.2	171.6	143.8	95.3	57.4	42.6	39.1	38.5	39.1
55°	5635.9	4282.5	255.0	150.3	114.2	71.0	43.8	34.9	32.5	31.4	30.8
57.5°	6196.8	4383.1	191.1	121.3	82.8	51.5	34.9	29.6	27.2	25.4	24.9
60°	6570.2	4301.5	131.4	89.4	57.4	37.3	29.0	25.4	22.5	20.7	20.1
62.5°	6780.9	4078.4	84.6	64.5	40.8	27.8	23.1	21.3	17.2	15.4	15.4
65°	6695.7	3710.3	59.2	46.2	29.6	20.7	17.2	17.2	12.4	10.1	9.5
67.5°	5933.5	3134.5	45.0	34.3	21.3	15.4	13.0	14.8	7.7	4.7	4.7
69°	5105.1	2597.8	38.5	28.4	17.8	12.4	11.2	13.6	5.3	3.6	3.0
70°	4437.0	2241.0	34.9	24.9	14.8	10.7	10.1	13.0	5.3	3.0	2.4
72.5°	2654.6	1249.8	26.6	17.8	9.5	8.3	8.3	14.8	5.3	3.0	2.4
75°	1072.8	440.3	19.5	12.4	7.1	7.1	10.1	18.9	4.7	2.4	1.8
77.5°	243.2	96.5	11.2	7.7	4.7	7.1	11.8	14.8	3.0	1.2	0.0
80°	59.2	23.7	7.1	4.7	3.0	5.3	8.9	8.3	0.6	0.0	0.0
82.5°	19.5	8.3	3.0	2.4	0.6	1.8	4.1	2.4	0.0	0.0	0.0
85°	8.3	4.7	1.2	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	5.3	1.8	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)