

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: P321506

Luminaire Tested: **GAN-SA2A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6133 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

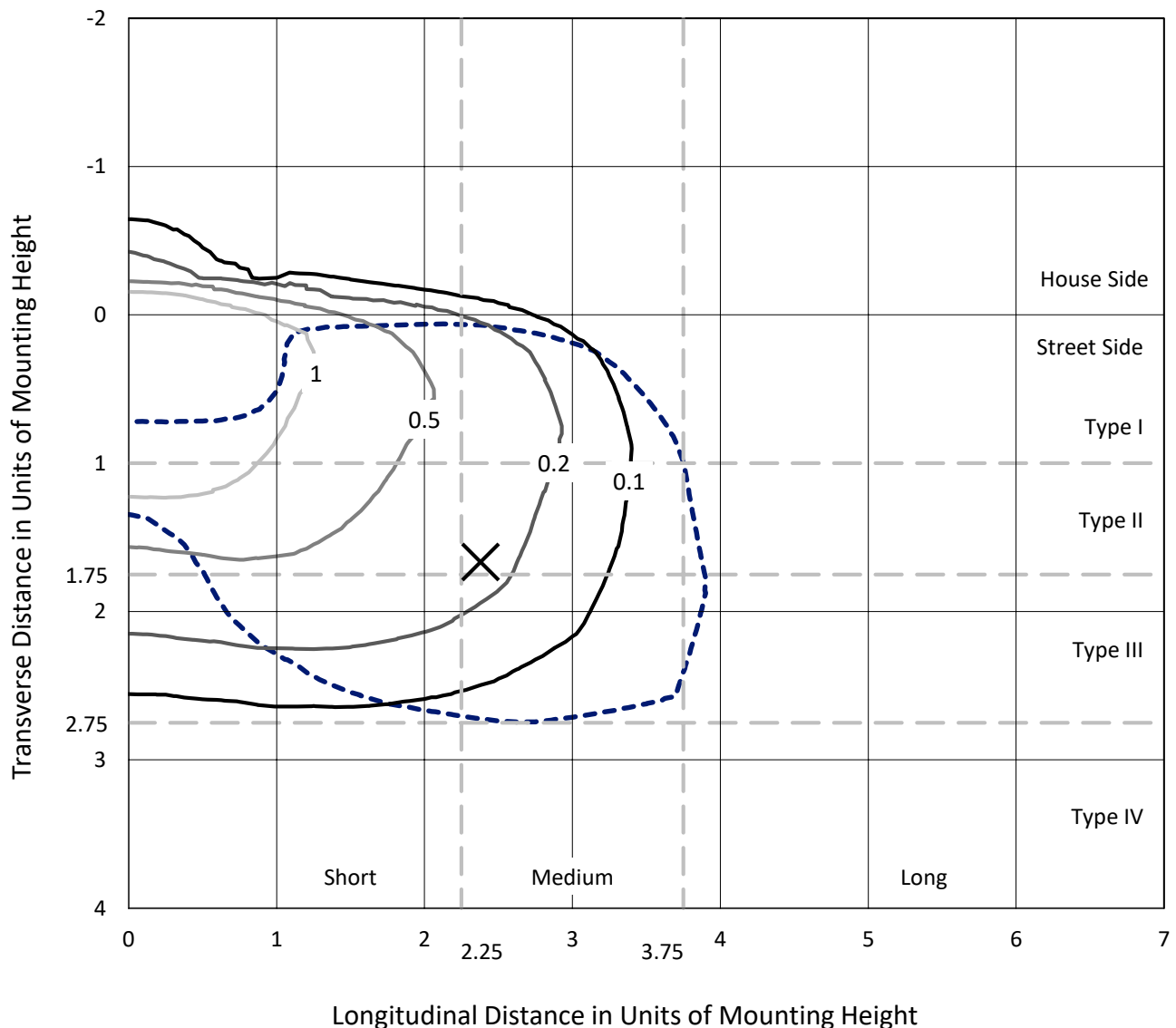
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321506
 CATALOG NUMBER: GAN-SA2A-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

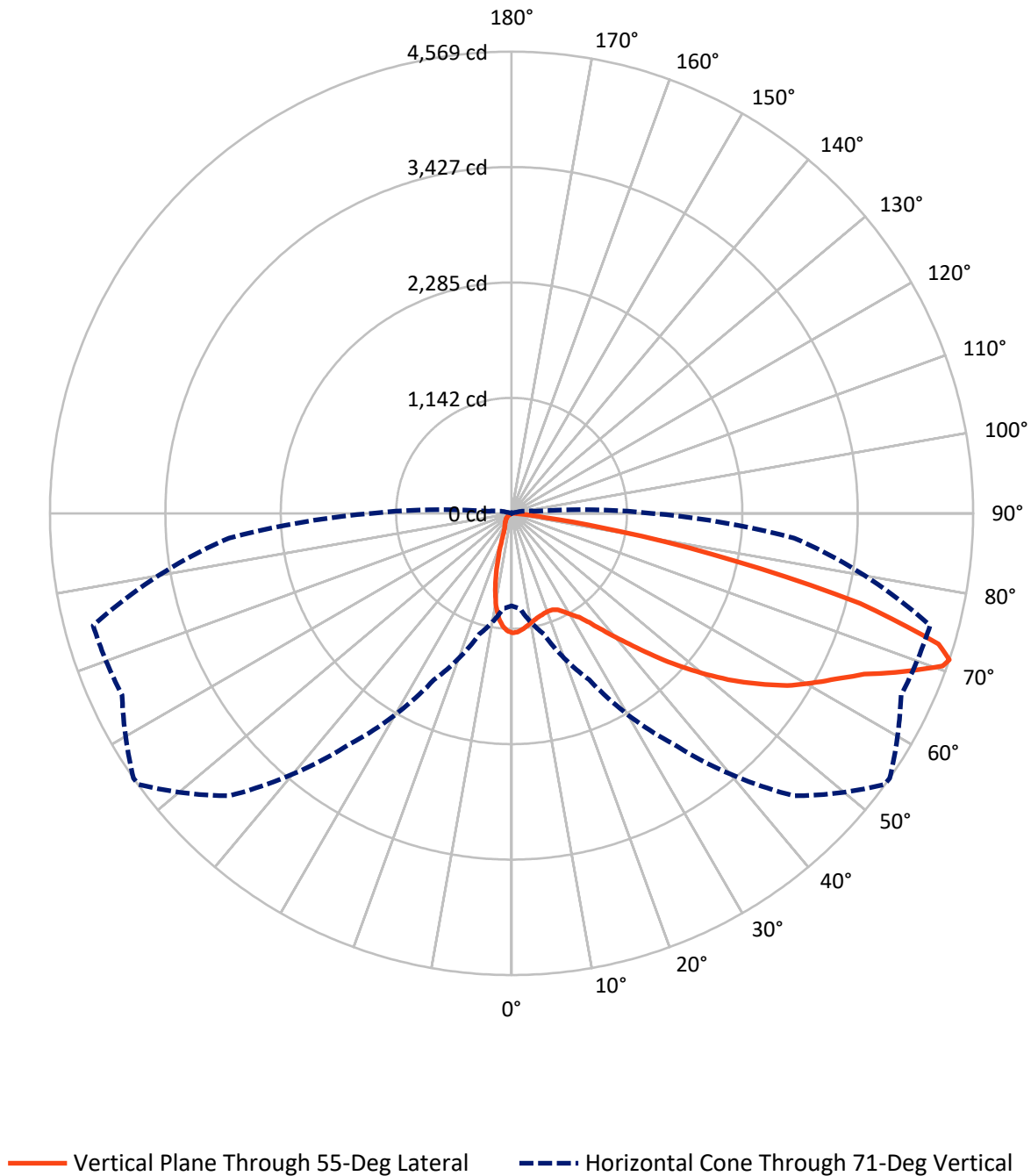
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P321506
CATALOG NUMBER: GAN-SA2A-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321506

CATALOG NUMBER: GAN-SA2A-727-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.6	0.0	485.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	5647.4	0.0	5647.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	6133.0	0.0	6133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.6
10°-20°	227.7	3.7
20°-30°	365.9	6.0
30°-40°	621.6	10.1
40°-50°	964.9	15.7
50°-60°	1297.2	21.2
60°-70°	1586.9	25.9
70°-80°	927.8	15.1
80°-90°	40.1	0.7
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°	6133.0	100.0
0°-180°	6133.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321506

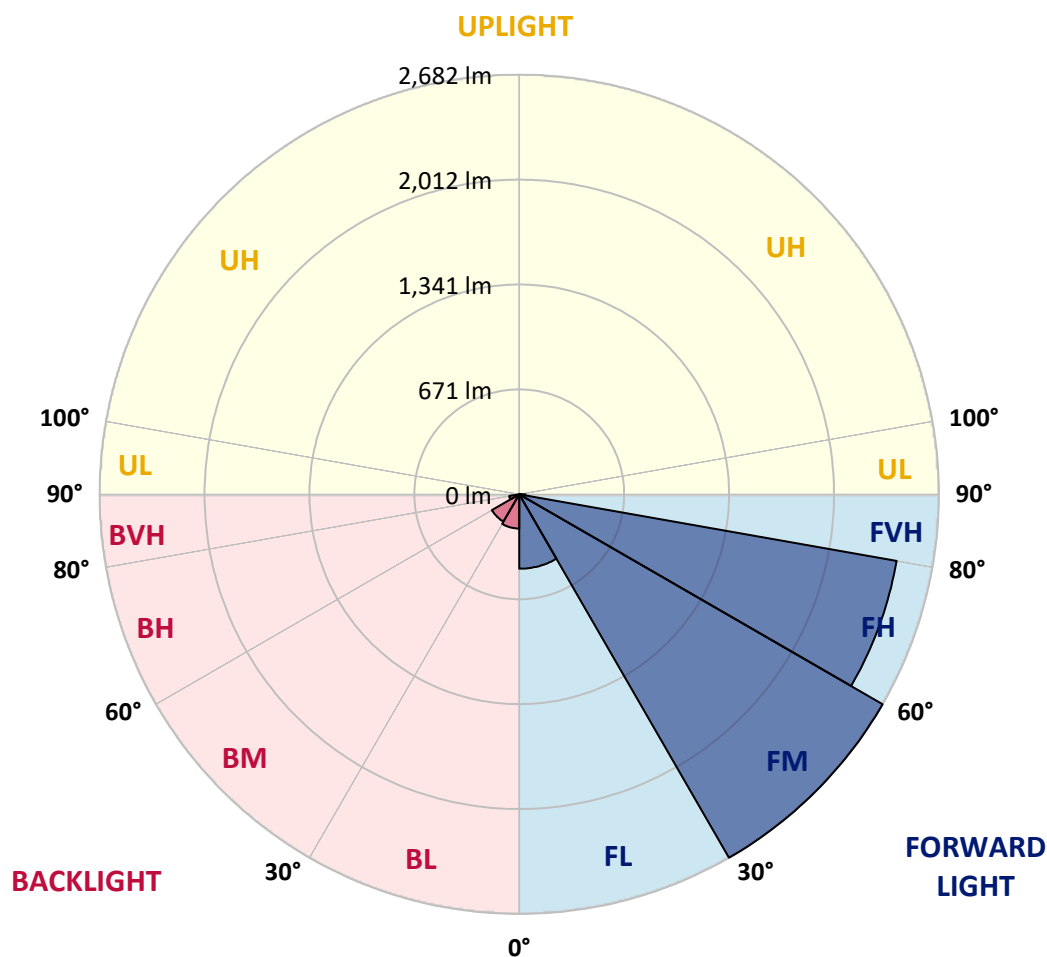
CATALOG NUMBER: GAN-SA2A-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.8	7.8			
FM	(30°-60°)	2682.4	43.7			
FH	(60°-80°)	2449.7	39.9			G2/5000
FVH	(80°-90°)	39.5	0.6			G1/100
BL	(0°-30°)	218.6	3.6	B1/500		
BM	(30°-60°)	201.3	3.3	B0/220		
BH	(60°-80°)	65.1	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G2

Type III Medium





REPORT NUMBER: P321506

CATALOG NUMBER: GAN-SA2A-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1148.1	1149.4	1154.4	1156.6	1161.8	1170.7	1175.1	1175.3	1182.5	1185.2	1187.5
5°	1066.8	1075.1	1083.4	1092.2	1108.1	1129.3	1150.3	1152.2	1175.3	1192.4	1201.5
7.5°	996.9	1004.3	1014.2	1028.3	1050.9	1084.2	1119.2	1123.3	1167.1	1205.9	1226.3
10°	925.0	931.1	945.4	966.0	997.2	1041.8	1088.9	1095.7	1159.6	1224.1	1259.9
12.5°	848.2	851.8	869.1	898.9	944.6	1001.3	1063.3	1072.3	1155.0	1245.0	1299.5
15°	789.8	791.5	808.0	838.8	891.1	964.9	1043.4	1054.4	1156.1	1270.1	1342.8
17.5°	774.9	775.8	784.6	805.8	852.0	932.4	1027.7	1041.2	1159.4	1294.6	1386.3
20°	835.2	829.5	820.4	817.1	836.9	912.9	1018.4	1033.5	1163.8	1316.3	1425.4
22.5°	1000.7	983.7	945.9	895.5	865.0	914.3	1020.8	1036.0	1177.8	1343.0	1470.5
25°	1246.4	1222.7	1158.5	1059.4	964.1	953.9	1041.5	1056.9	1205.1	1375.0	1513.8
27.5°	1525.9	1502.5	1424.0	1282.5	1120.0	1032.4	1088.9	1103.2	1245.6	1403.4	1546.8
30°	1793.6	1787.0	1694.4	1533.6	1316.1	1159.6	1150.0	1162.1	1275.6	1420.4	1573.0
32.5°	2020.5	2010.0	1935.7	1779.3	1540.5	1312.5	1221.9	1225.5	1298.2	1442.5	1607.1
35°	2230.9	2217.9	2152.7	2004.8	1770.7	1499.2	1332.6	1327.3	1347.5	1486.8	1656.7
37.5°	2414.6	2426.4	2354.0	2213.3	1977.3	1693.3	1481.8	1466.1	1424.6	1558.9	1728.6
40°	2568.2	2568.2	2530.5	2413.2	2200.3	1894.1	1650.6	1630.0	1540.5	1670.2	1819.7
42.5°	2623.6	2635.4	2649.5	2583.1	2400.0	2102.8	1838.7	1817.3	1703.8	1828.0	1934.8
45°	2626.9	2645.6	2717.5	2717.2	2580.3	2310.2	2050.8	2040.6	1913.1	2030.7	2077.5
47.5°	2580.3	2603.7	2722.2	2789.4	2723.3	2503.2	2282.7	2270.0	2159.0	2279.1	2226.7
50°	2508.5	2534.4	2672.0	2817.7	2820.5	2671.2	2526.9	2507.9	2429.7	2563.0	2381.0
52.5°	2379.9	2430.0	2627.2	2824.3	2884.4	2816.3	2759.3	2751.1	2732.6	2836.4	2503.8
55°	2104.8	2160.4	2514.5	2826.5	2943.6	2944.9	2977.2	2979.4	3016.5	3092.0	2595.2
57.5°	1974.8	2006.2	2317.9	2837.0	3031.4	3090.9	3199.1	3216.2	3273.8	3334.6	2699.6
60°	1893.0	1930.2	2221.0	2822.7	3169.4	3282.3	3404.8	3410.6	3472.3	3584.9	2840.9
62.5°	1827.7	1864.3	2159.8	2767.6	3324.4	3512.5	3605.9	3606.4	3652.7	3883.2	3001.4
65°	1666.6	1697.5	2036.2	2705.6	3426.9	3740.3	3839.4	3835.8	3873.5	4197.7	3187.8
67.5°	1433.6	1457.3	1783.7	2470.7	3388.3	3947.3	4191.9	4180.0	4134.3	4469.5	3261.1
70°	1108.4	1117.0	1405.8	2059.0	3027.0	4026.9	4532.5	4526.5	4294.3	4420.7	2992.6
71°	916.2	944.3	1238.9	1817.3	2785.0	3953.4	4565.6	4569.2	4254.1	4288.0	2807.8
72.5°	532.0	556.0	898.0	1395.6	2364.4	3646.6	4394.3	4420.2	4066.3	3900.3	2398.3
75°	114.0	122.0	332.9	675.5	1300.6	2555.8	3468.5	3560.7	3314.2	2653.3	1445.5
77.5°	79.3	85.6	142.6	306.5	429.9	1262.9	2154.6	2258.7	1980.0	997.2	462.6
80°	62.8	69.9	111.3	151.5	116.2	407.3	1009.3	1072.9	660.4	222.5	77.9
82.5°	35.0	41.6	86.7	81.8	44.6	77.4	282.5	319.4	132.2	44.9	18.5
85°	10.2	12.4	55.9	59.5	19.0	14.9	48.2	59.8	25.1	11.8	8.3
87.5°	0.0	0.0	27.0	22.9	5.5	2.2	4.4	5.0	5.0	5.0	5.5
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: P321506

CATALOG NUMBER: GAN-SA2A-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1187.5	1189.4	1182.5	1173.4	1163.8	1151.9	1139.5	1129.9	1129.6	1124.9	1120.3
5°	1202.0	1200.9	1181.9	1153.0	1118.9	1083.4	1049.5	1011.2	998.5	982.8	977.6
7.5°	1229.0	1221.3	1181.1	1117.8	1042.9	968.5	891.7	814.3	781.3	751.5	746.3
10°	1262.9	1248.3	1175.9	1064.9	927.5	790.3	674.4	569.2	523.0	487.4	485.8
12.5°	1298.2	1275.9	1161.3	985.0	776.3	583.5	450.0	346.4	307.9	283.1	285.3
15°	1335.1	1301.7	1129.9	877.4	604.2	396.0	276.5	215.6	200.2	193.9	195.5
17.5°	1372.8	1319.6	1086.1	747.7	434.3	255.6	191.4	174.3	174.3	175.7	176.2
20°	1405.6	1329.3	1021.7	602.3	294.4	186.2	167.4	165.0	166.3	168.5	168.8
22.5°	1438.1	1329.8	937.7	454.9	206.0	163.0	159.4	158.3	159.2	161.6	161.9
25°	1464.5	1323.2	832.5	323.6	164.4	153.7	152.0	151.5	152.0	155.0	155.0
27.5°	1475.2	1299.3	704.2	227.5	147.3	143.2	142.6	143.2	144.0	146.2	146.5
30°	1476.3	1257.4	564.3	164.7	133.6	129.2	130.3	132.2	131.4	130.8	131.4
32.5°	1479.1	1208.9	427.9	135.5	122.0	115.1	113.7	113.7	110.4	108.5	107.4
35°	1488.2	1151.9	310.4	121.7	110.2	102.2	96.9	90.9	84.5	81.2	80.4
37.5°	1502.5	1092.2	222.2	112.6	99.7	90.6	80.7	69.9	60.9	58.4	58.4
40°	1528.7	1030.5	164.4	105.5	91.4	80.1	65.3	51.2	43.0	41.6	41.6
42.5°	1570.0	965.5	131.1	99.1	84.3	69.4	49.8	37.2	31.1	30.3	30.0
45°	1612.9	893.9	114.6	93.1	76.6	57.0	36.9	27.5	24.0	23.1	23.1
47.5°	1655.9	817.6	106.6	87.3	69.1	44.3	27.5	21.8	20.1	20.1	20.4
50°	1692.2	738.0	100.8	81.0	59.5	33.6	21.8	18.5	17.9	19.0	19.3
52.5°	1701.3	659.8	93.6	73.0	47.6	25.6	17.9	16.2	16.2	16.2	16.2
55°	1695.8	599.2	84.3	63.1	35.2	20.4	15.4	14.3	14.0	14.0	14.0
57.5°	1714.5	563.4	67.5	49.0	25.3	16.5	13.5	12.7	12.1	11.8	11.8
60°	1752.3	540.0	48.2	35.2	19.0	13.8	11.6	10.7	9.9	9.4	9.4
62.5°	1802.4	519.6	35.8	26.2	14.6	11.0	9.6	8.8	7.7	7.2	7.2
65°	1840.9	483.3	27.3	19.6	11.0	8.8	7.4	7.2	5.5	5.0	4.7
67.5°	1782.0	403.4	22.0	14.3	8.3	6.9	5.8	5.5	3.3	2.8	2.8
70°	1528.4	280.9	17.6	10.5	6.1	5.5	4.7	3.6	2.5	2.2	2.2
71°	1386.0	234.6	16.0	8.8	5.2	5.2	4.4	3.0	2.2	1.9	1.9
72.5°	1151.4	166.6	13.5	6.9	4.7	5.5	4.7	2.8	2.2	1.9	1.7
75°	668.4	69.7	9.4	4.7	3.6	6.6	6.1	2.5	1.7	1.4	1.4
77.5°	201.0	25.6	5.2	3.0	2.8	5.8	6.9	2.2	0.8	0.3	0.3
80°	36.6	11.0	3.3	1.9	1.9	3.6	5.2	1.1	0.0	0.0	0.0
82.5°	12.9	5.5	1.9	1.1	0.8	1.7	2.5	0.0	0.0	0.0	0.0
85°	7.4	3.9	1.1	0.6	0.0	0.3	0.6	0.0	0.0	0.0	0.0
87.5°	5.0	1.1	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)