

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: P321535

Luminaire Tested: **GAN-SA1D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321535
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-SA1D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5226 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

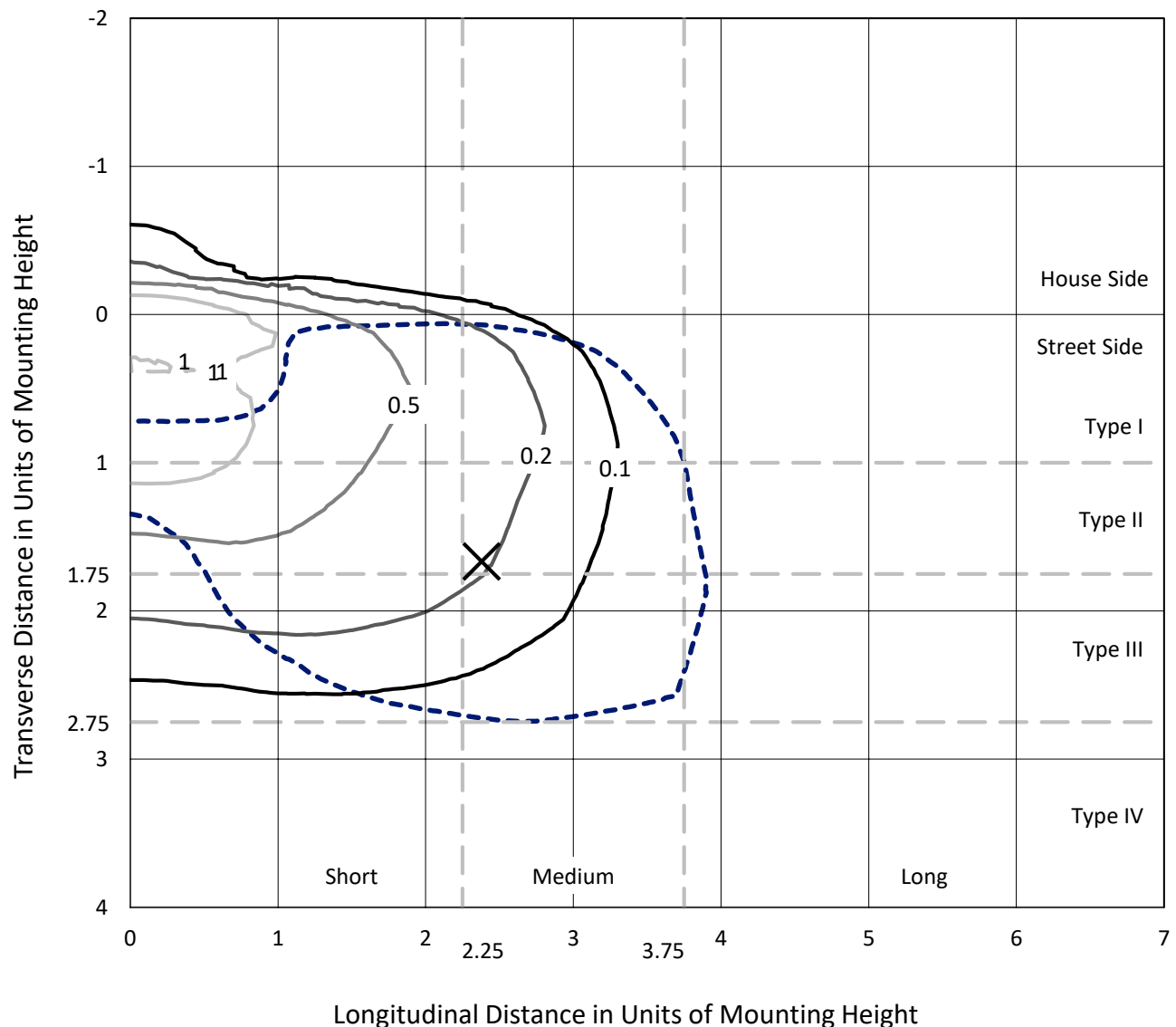
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321535
 CATALOG NUMBER: GAN-SA1D-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

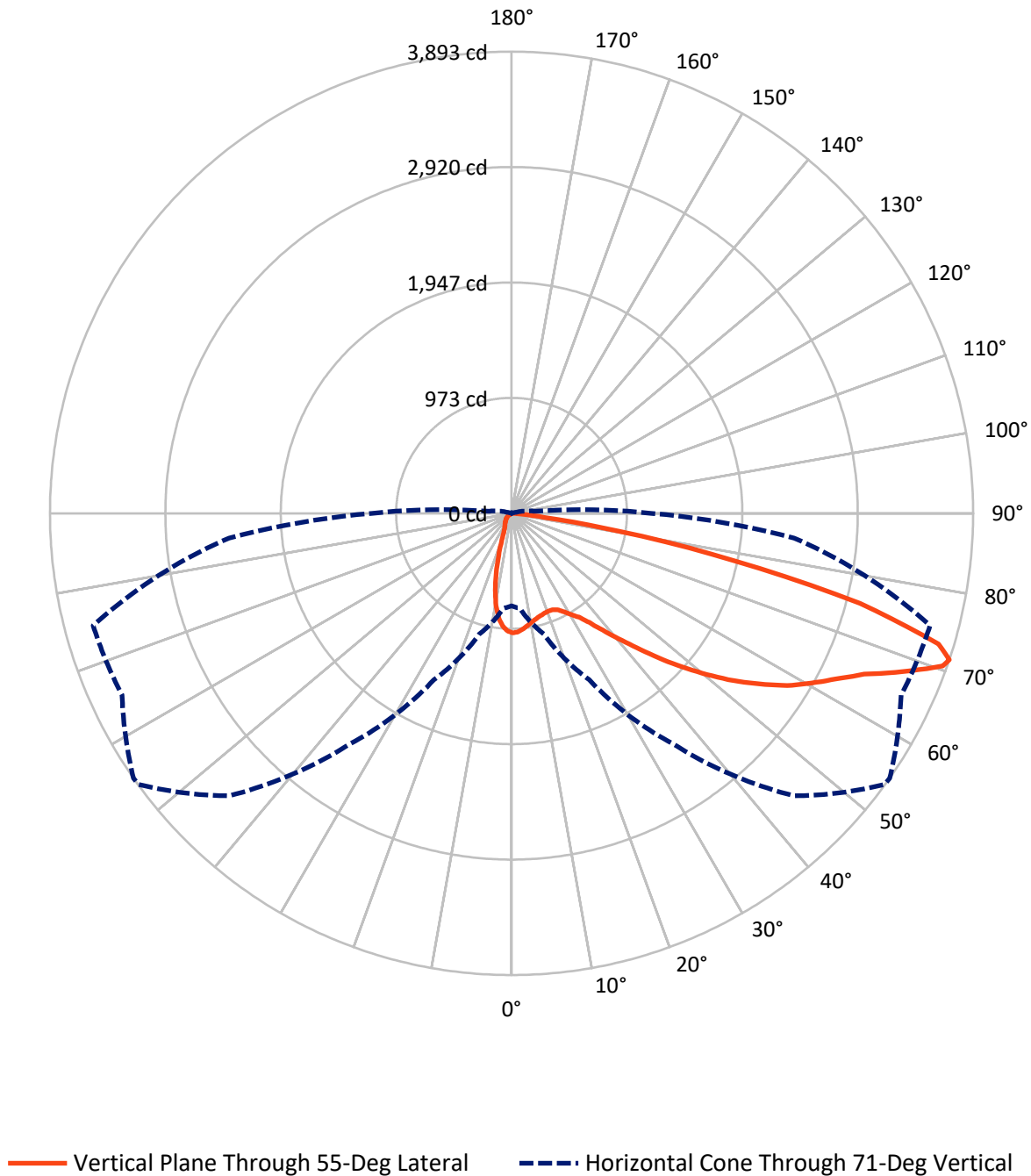
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P321535
CATALOG NUMBER: GAN-SA1D-727-U-T3R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.8	0.0	413.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	4812.2	0.0	4812.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	5226.0	0.0	5226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	1.6
10°-20°	194.0	3.7
20°-30°	311.8	6.0
30°-40°	529.7	10.1
40°-50°	822.2	15.7
50°-60°	1105.4	21.2
60°-70°	1352.2	25.9
70°-80°	790.6	15.1
80°-90°	34.2	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°	5226.0	100.0
0°-180°	5226.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321535

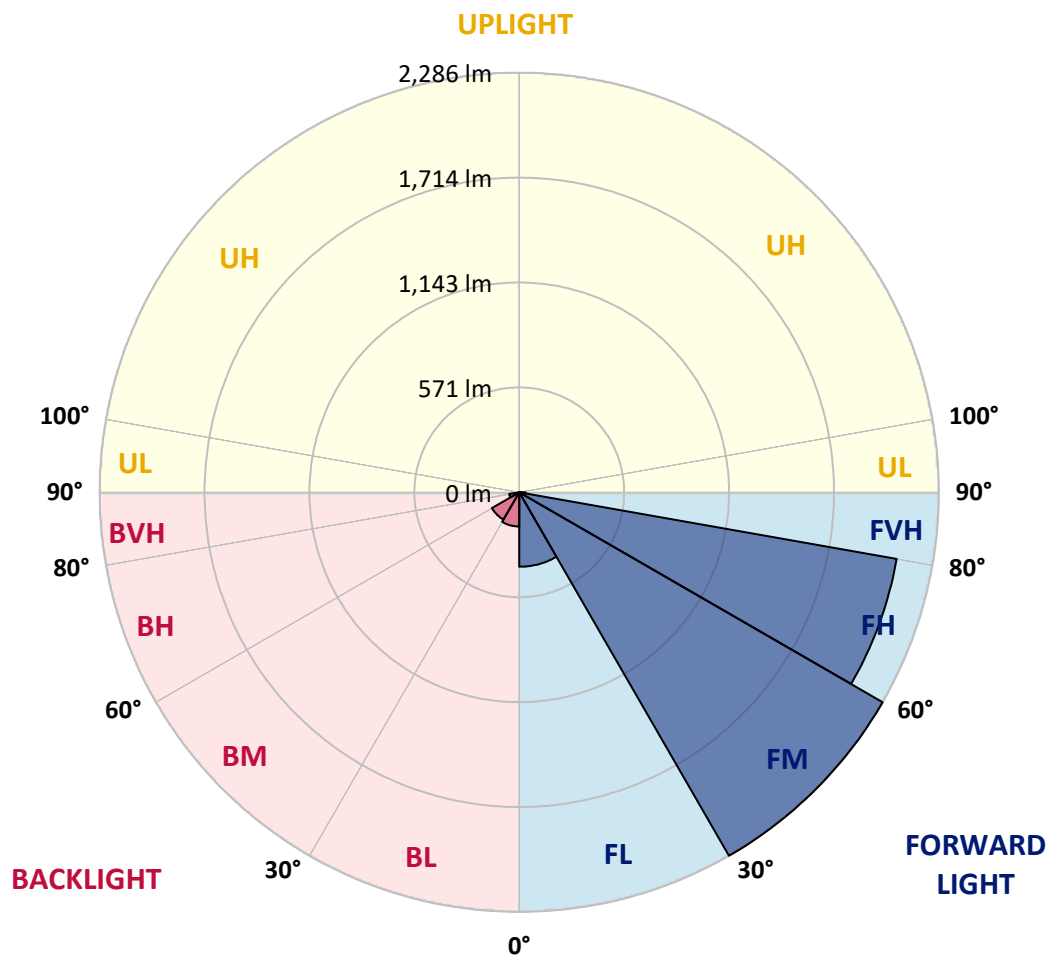
CATALOG NUMBER: GAN-SA1D-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.5	7.8			
FM	(30°-60°)	2285.7	43.7			
FH	(60°-80°)	2087.4	39.9			G2/5000
FVH	(80°-90°)	33.6	0.6			G1/100
BL	(0°-30°)	186.2	3.6	B1/500		
BM	(30°-60°)	171.6	3.3	B0/220		
BH	(60°-80°)	55.4	1.1	B0/110		G0/110
BVH	(80°-90°)	0.5	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: P321535

CATALOG NUMBER: GAN-SA1D-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	978.3	979.5	983.7	985.6	990.0	997.5	1001.3	1001.5	1007.6	1010.0	1011.8
5°	909.1	916.1	923.1	930.7	944.3	962.3	980.2	981.8	1001.5	1016.1	1023.8
7.5°	849.5	855.8	864.2	876.2	895.5	923.8	953.6	957.2	994.5	1027.6	1044.9
10°	788.2	793.4	805.6	823.2	849.7	887.7	927.8	933.7	988.1	1043.1	1073.6
12.5°	722.7	725.8	740.6	765.9	804.9	853.2	906.0	913.8	984.2	1060.9	1107.3
15°	673.0	674.4	688.5	714.8	759.4	822.2	889.1	898.5	985.1	1082.2	1144.2
17.5°	660.3	661.0	668.5	686.6	726.0	794.5	875.7	887.2	987.9	1103.1	1181.3
20°	711.7	706.8	699.0	696.2	713.1	777.9	867.8	880.7	991.7	1121.7	1214.6
22.5°	852.7	838.2	806.0	763.1	737.1	779.1	869.9	882.8	1003.6	1144.4	1253.1
25°	1062.1	1041.9	987.2	902.7	821.5	812.9	887.5	900.6	1026.9	1171.6	1289.9
27.5°	1300.2	1280.3	1213.4	1092.8	954.4	879.7	927.8	940.0	1061.4	1195.8	1318.1
30°	1528.3	1522.7	1443.8	1306.8	1121.4	988.1	979.9	990.3	1086.9	1210.4	1340.4
32.5°	1721.7	1712.8	1649.4	1516.1	1312.7	1118.4	1041.2	1044.2	1106.2	1229.1	1369.5
35°	1901.0	1889.9	1834.3	1708.3	1508.8	1277.5	1135.5	1131.0	1148.2	1266.9	1411.7
37.5°	2057.5	2067.6	2005.9	1885.9	1684.8	1442.9	1262.7	1249.3	1213.9	1328.4	1472.9
40°	2188.4	2188.4	2156.3	2056.3	1874.9	1614.0	1406.5	1388.9	1312.7	1423.2	1550.6
42.5°	2235.6	2245.7	2257.6	2201.1	2045.0	1791.8	1566.8	1548.5	1451.8	1557.7	1648.7
45°	2238.4	2254.4	2315.6	2315.4	2198.7	1968.5	1747.5	1738.8	1630.2	1730.4	1770.3
47.5°	2198.7	2218.7	2319.6	2376.8	2320.5	2133.0	1945.1	1934.3	1839.7	1942.0	1897.4
50°	2137.5	2159.6	2276.9	2401.0	2403.4	2276.2	2153.2	2137.0	2070.4	2184.0	2028.8
52.5°	2027.9	2070.6	2238.6	2406.6	2457.8	2399.8	2351.3	2344.2	2328.5	2417.0	2133.5
55°	1793.5	1840.9	2142.7	2408.5	2508.3	2509.4	2536.9	2538.8	2570.4	2634.7	2211.4
57.5°	1682.7	1709.5	1975.1	2417.4	2583.1	2633.8	2726.0	2740.6	2789.6	2841.5	2300.3
60°	1613.0	1644.7	1892.5	2405.2	2700.7	2796.9	2901.3	2906.2	2958.8	3054.8	2420.7
62.5°	1557.4	1588.6	1840.4	2358.3	2832.8	2993.1	3072.6	3073.1	3112.5	3308.9	2557.5
65°	1420.1	1446.4	1735.1	2305.5	2920.1	3187.1	3271.6	3268.5	3300.7	3576.9	2716.4
67.5°	1221.6	1241.8	1519.9	2105.3	2887.2	3363.6	3572.0	3561.9	3522.9	3808.5	2778.8
70°	944.5	951.8	1197.9	1754.5	2579.4	3431.4	3862.2	3857.1	3659.2	3767.0	2550.0
71°	780.7	804.6	1055.7	1548.5	2373.1	3368.7	3890.4	3893.4	3625.0	3653.8	2392.6
72.5°	453.4	473.8	765.2	1189.2	2014.8	3107.3	3744.4	3766.5	3464.9	3323.5	2043.6
75°	97.1	104.0	283.7	575.6	1108.3	2177.9	2955.5	3034.1	2824.1	2260.9	1231.7
77.5°	67.6	73.0	121.6	261.2	366.3	1076.1	1836.0	1924.7	1687.2	849.7	394.2
80°	53.5	59.6	94.8	129.1	99.0	347.1	860.0	914.2	562.7	189.6	66.4
82.5°	29.8	35.4	73.9	69.7	38.0	65.9	240.8	272.2	112.6	38.2	15.7
85°	8.7	10.6	47.6	50.7	16.2	12.7	41.1	50.9	21.4	10.1	7.0
87.5°	0.0	0.0	23.0	19.5	4.7	1.9	3.8	4.2	4.2	4.2	4.7
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: P321535

CATALOG NUMBER: GAN-SA1D-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1011.8	1013.5	1007.6	999.9	991.7	981.6	971.0	962.8	962.6	958.6	954.6
5°	1024.3	1023.3	1007.1	982.5	953.4	923.1	894.3	861.7	850.9	837.5	833.0
7.5°	1047.3	1040.7	1006.4	952.5	888.6	825.3	759.8	693.9	665.7	640.4	635.9
10°	1076.1	1063.7	1002.0	907.4	790.3	673.5	574.7	485.0	445.6	415.3	413.9
12.5°	1106.2	1087.2	989.5	839.4	661.5	497.2	383.4	295.2	262.3	241.2	243.1
15°	1137.6	1109.2	962.8	747.6	514.8	337.4	235.6	183.7	170.6	165.2	166.6
17.5°	1169.8	1124.5	925.5	637.1	370.1	217.8	163.1	148.5	148.5	149.7	150.2
20°	1197.7	1132.7	870.6	513.2	250.8	158.6	142.7	140.6	141.7	143.6	143.8
22.5°	1225.4	1133.2	799.0	387.7	175.5	138.9	135.9	134.9	135.6	137.7	138.0
25°	1247.9	1127.5	709.4	275.7	140.1	130.9	129.5	129.1	129.5	132.1	132.1
27.5°	1257.1	1107.1	600.0	193.8	125.5	122.0	121.6	122.0	122.7	124.6	124.8
30°	1258.0	1071.4	480.8	140.3	113.8	110.1	111.0	112.6	111.9	111.5	111.9
32.5°	1260.3	1030.1	364.7	115.5	104.0	98.1	96.9	96.9	94.1	92.5	91.5
35°	1268.1	981.6	264.5	103.7	93.9	87.1	82.6	77.4	72.0	69.2	68.5
37.5°	1280.3	930.7	189.4	96.0	84.9	77.2	68.8	59.6	51.9	49.7	49.7
40°	1302.6	878.1	140.1	89.9	77.9	68.3	55.6	43.6	36.6	35.4	35.4
42.5°	1337.8	822.7	111.7	84.5	71.8	59.1	42.5	31.7	26.5	25.8	25.6
45°	1374.4	761.7	97.6	79.3	65.2	48.6	31.4	23.5	20.4	19.7	19.7
47.5°	1411.0	696.7	90.8	74.4	58.9	37.8	23.5	18.5	17.1	17.1	17.4
50°	1442.0	628.9	85.9	69.0	50.7	28.6	18.5	15.7	15.3	16.2	16.4
52.5°	1449.7	562.2	79.8	62.2	40.6	21.8	15.3	13.8	13.8	13.8	13.8
55°	1445.0	510.6	71.8	53.7	30.0	17.4	13.1	12.2	12.0	12.0	12.0
57.5°	1461.0	480.1	57.5	41.8	21.6	14.1	11.5	10.8	10.3	10.1	10.1
60°	1493.1	460.2	41.1	30.0	16.2	11.7	9.9	9.2	8.4	8.0	8.0
62.5°	1535.8	442.8	30.5	22.3	12.4	9.4	8.2	7.5	6.6	6.1	6.1
65°	1568.7	411.8	23.2	16.7	9.4	7.5	6.3	6.1	4.7	4.2	4.0
67.5°	1518.5	343.8	18.8	12.2	7.0	5.9	4.9	4.7	2.8	2.3	2.3
70°	1302.3	239.4	15.0	8.9	5.2	4.7	4.0	3.1	2.1	1.9	1.9
71°	1181.0	199.9	13.6	7.5	4.5	4.5	3.8	2.6	1.9	1.6	1.6
72.5°	981.1	142.0	11.5	5.9	4.0	4.7	4.0	2.3	1.9	1.6	1.4
75°	569.5	59.4	8.0	4.0	3.1	5.6	5.2	2.1	1.4	1.2	1.2
77.5°	171.3	21.8	4.5	2.6	2.3	4.9	5.9	1.9	0.7	0.2	0.2
80°	31.2	9.4	2.8	1.6	1.6	3.1	4.5	0.9	0.0	0.0	0.0
82.5°	11.0	4.7	1.6	0.9	0.7	1.4	2.1	0.0	0.0	0.0	0.0
85°	6.3	3.3	0.9	0.5	0.0	0.2	0.5	0.0	0.0	0.0	0.0
87.5°	4.2	0.9	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)