

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: P323115

Luminaire Tested: **GAN-SA1B-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4145 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

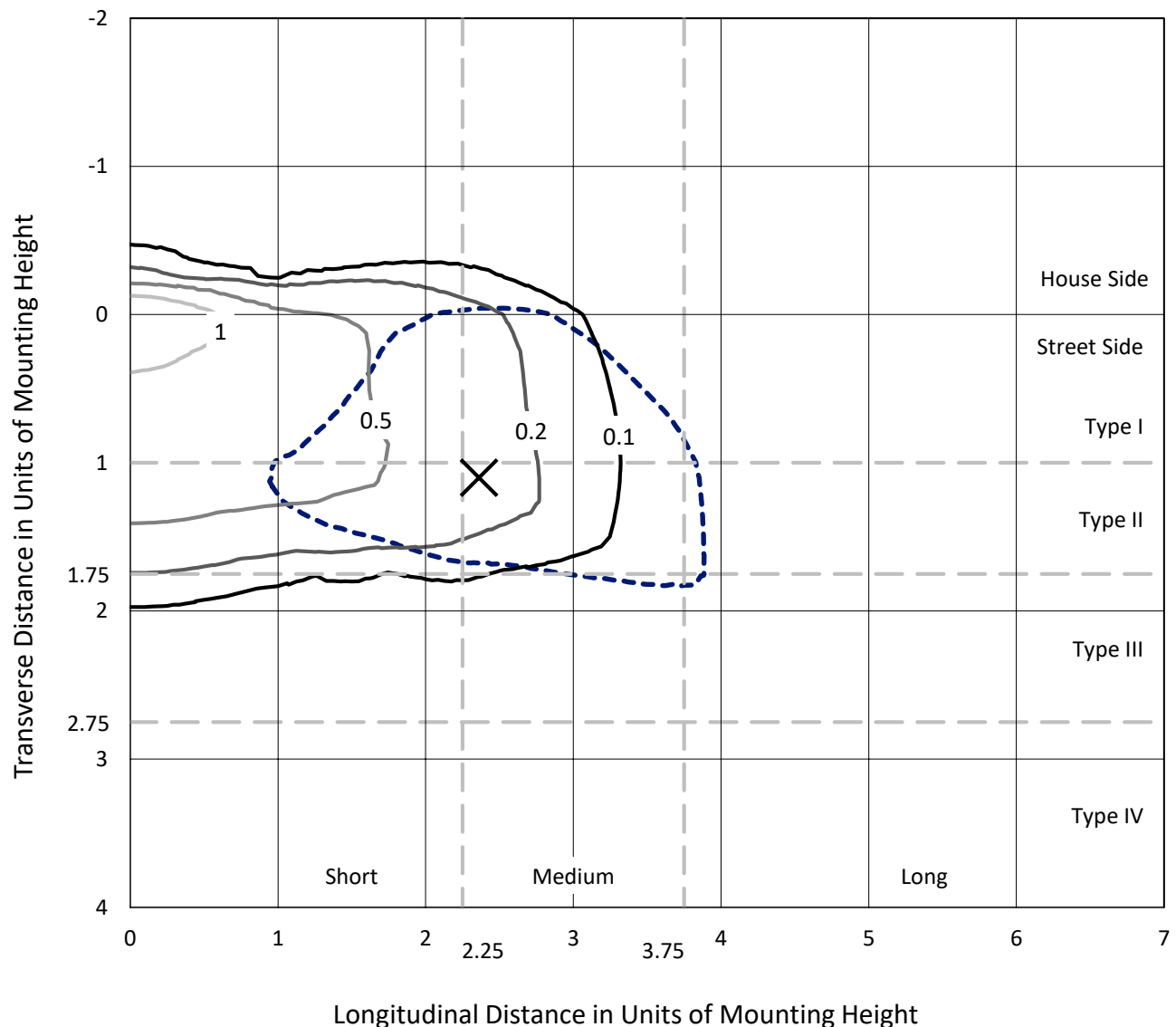
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

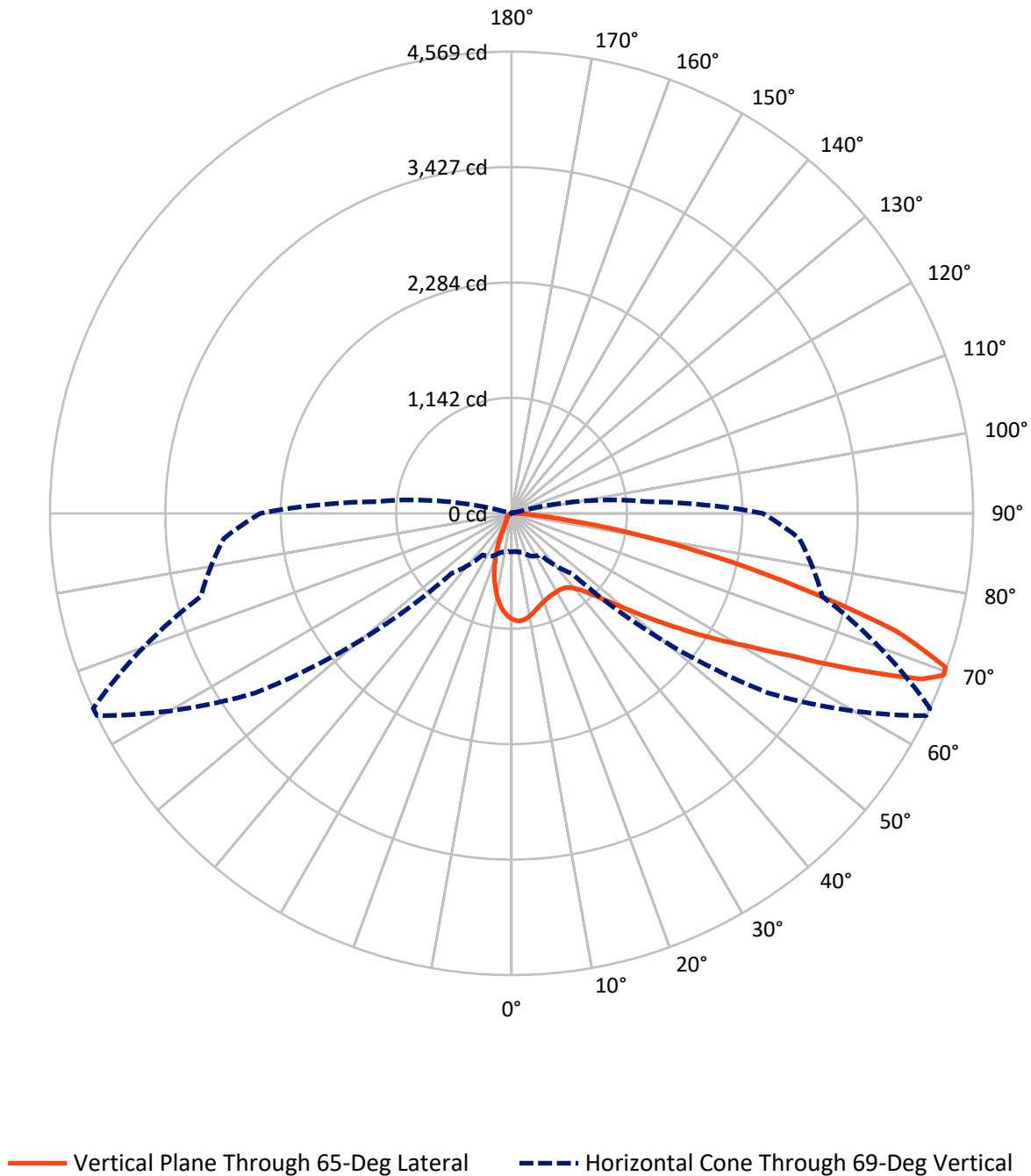
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	488.6	0.0	488.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3656.4	0.0	3656.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	4145.0	0.0	4145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	2.1
10°-20°	191.7	4.6
20°-30°	265.6	6.4
30°-40°	370.3	8.9
40°-50°	575.5	13.9
50°-60°	923.9	22.3
60°-70°	1045.1	25.2
70°-80°	613.8	14.8
80°-90°	71.4	1.7
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°	4145.0	100.0
0°-180°	4145.0	100.0

Coefficient of Utilization



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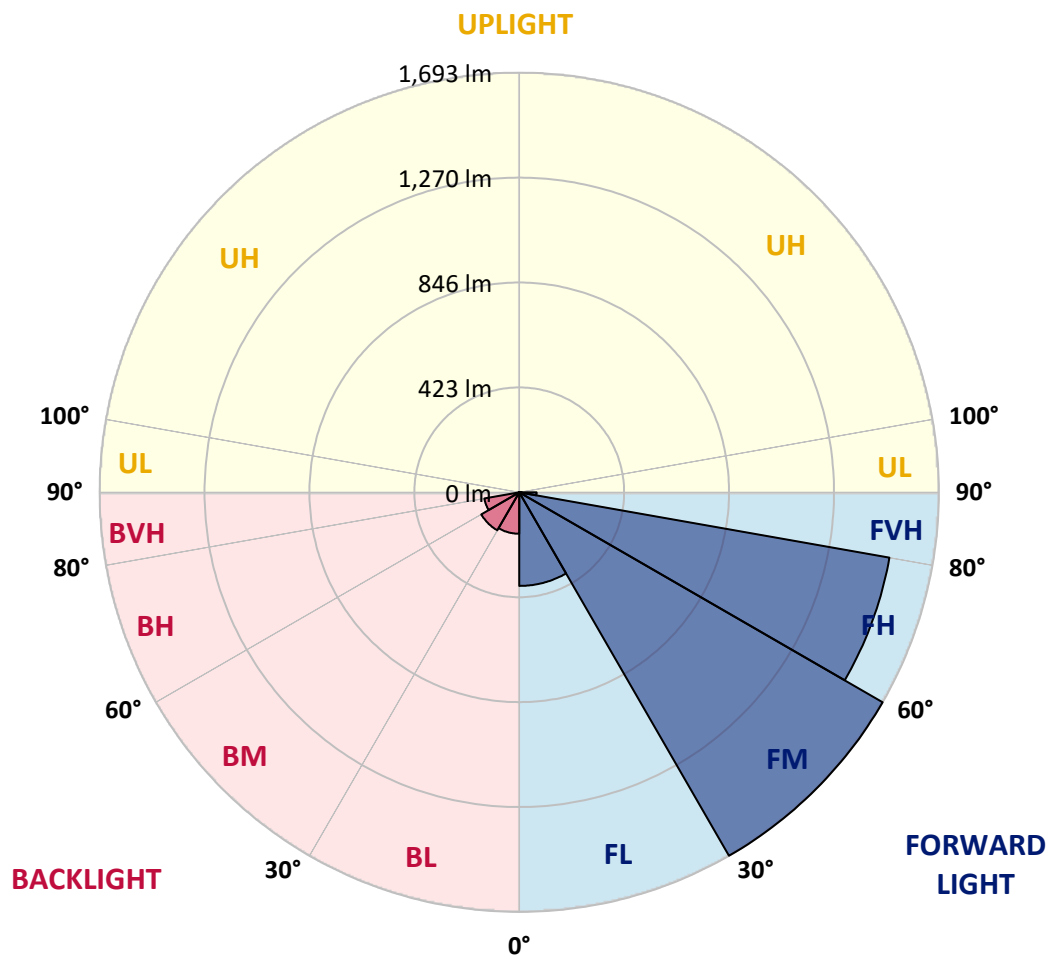
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.7	9.1			
FM	(30°-60°)	1692.7	40.8			
FH	(60°-80°)	1516.2	36.6			G1/1800
FVH	(80°-90°)	69.8	1.7			G1/100
BL	(0°-30°)	167.2	4.0	B1/500		
BM	(30°-60°)	177.1	4.3	B0/220		
BH	(60°-80°)	142.8	3.4	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1056.7	1054.1	1056.2	1060.8	1063.1	1063.1	1064.8	1062.7	1063.4	1058.3	1051.0
5°	990.6	986.6	992.4	1005.2	1021.0	1034.5	1054.5	1065.0	1066.0	1066.2	1057.6
7.5°	919.4	915.7	924.3	939.4	959.8	984.8	1019.7	1050.3	1052.0	1068.5	1062.2
10°	861.5	858.9	868.9	885.0	908.9	937.0	979.7	1022.2	1027.3	1063.8	1061.5
12.5°	815.6	813.5	822.9	841.5	865.9	897.0	941.7	991.0	997.8	1053.1	1058.0
15°	782.1	781.7	789.6	807.5	834.5	863.5	909.2	962.0	969.9	1041.5	1057.4
17.5°	764.5	765.1	770.9	786.1	809.3	838.0	881.9	937.7	946.2	1031.1	1060.1
20°	762.8	763.3	766.5	775.1	793.8	819.3	859.6	917.1	926.1	1023.4	1064.3
22.5°	778.2	777.9	778.7	777.9	788.4	807.7	844.9	901.3	911.7	1018.3	1067.6
25°	807.9	807.3	807.0	800.5	793.5	803.8	838.7	892.4	902.2	1014.7	1069.5
27.5°	849.1	848.7	848.2	837.5	816.5	810.0	839.4	889.1	897.3	1011.7	1069.2
30°	903.3	905.7	905.0	890.1	857.3	828.7	846.8	887.3	894.5	1005.9	1065.5
32.5°	966.9	971.9	975.7	959.8	918.7	865.9	863.8	889.2	894.5	1001.5	1058.8
35°	1033.1	1039.4	1053.6	1048.0	994.0	921.9	893.1	900.8	905.2	1004.0	1055.7
37.5°	1098.1	1105.7	1136.5	1152.9	1092.5	995.9	938.7	929.4	931.7	1018.9	1059.2
40°	1173.7	1185.1	1232.0	1258.3	1210.2	1095.0	1006.9	978.5	979.4	1051.7	1075.5
42.5°	1273.0	1284.8	1335.4	1376.7	1342.8	1220.2	1099.5	1053.6	1052.7	1113.0	1113.9
45°	1394.0	1406.3	1458.7	1504.5	1489.3	1368.6	1218.1	1163.2	1162.2	1209.9	1186.7
47.5°	1531.2	1543.3	1590.1	1637.3	1653.8	1541.9	1369.1	1312.8	1310.4	1344.4	1299.1
50°	1648.9	1656.8	1699.9	1763.4	1837.8	1754.8	1557.0	1502.8	1500.1	1523.1	1464.2
52.5°	1691.7	1696.2	1740.1	1829.0	2014.6	2043.2	1803.7	1733.9	1732.0	1742.0	1684.0
55°	1605.0	1613.3	1667.1	1799.0	2110.3	2369.0	2115.2	2020.2	2005.6	1984.0	1913.7
57.5°	1368.9	1382.1	1440.0	1615.4	2065.6	2627.6	2573.0	2344.0	2322.6	2190.7	2100.5
60°	1025.7	1041.8	1089.9	1279.1	1826.9	2719.6	3073.2	2704.7	2656.5	2355.2	2272.2
62.5°	703.9	711.9	744.5	867.8	1345.4	2568.8	3491.7	3187.9	3099.9	2534.1	2458.0
65°	537.6	540.4	553.7	596.2	801.2	2086.7	3658.2	3825.5	3719.0	2748.1	2650.7
67.5°	433.2	430.9	449.4	510.0	536.5	1273.0	3464.0	4428.7	4378.9	3034.1	2844.7
69°	382.0	378.8	397.6	468.1	503.9	841.5	3096.7	4565.7	4568.8	3185.1	2858.0
70°	343.8	345.9	364.5	443.2	492.9	660.5	2746.0	4530.8	4555.7	3241.6	2778.1
72.5°	229.6	235.2	272.6	368.0	473.9	499.9	1658.0	3887.9	3983.7	3114.5	2383.4
75°	129.4	133.6	178.0	277.5	446.6	476.0	875.7	2864.3	2957.0	2604.4	1837.9
77.5°	63.5	65.8	100.7	179.1	373.4	453.6	496.7	1945.6	2051.4	1699.9	1039.6
80°	26.8	28.1	50.3	110.5	266.9	432.9	368.9	1197.4	1210.6	666.0	276.9
82.5°	10.3	10.7	21.2	68.9	169.6	337.5	308.5	567.7	554.1	125.4	63.1
85°	1.2	1.4	7.7	41.4	94.4	173.6	250.6	244.7	226.4	24.9	32.4
87.5°	0.0	0.0	0.5	12.6	28.1	81.4	130.3	101.6	91.6	8.1	16.8
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°	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1044.8	1043.1	1033.6	1019.9	1006.9	990.8	975.4	966.1	958.7	953.8	959.6
5°	1047.6	1039.9	1011.1	974.3	938.2	897.5	859.6	827.5	814.9	800.8	807.2
7.5°	1046.7	1032.2	980.4	914.9	848.6	780.0	715.1	665.1	639.1	613.7	620.2
10°	1042.4	1017.8	939.4	842.2	743.0	644.4	552.3	482.3	443.2	407.8	412.9
12.5°	1032.7	998.5	891.0	759.1	626.3	496.4	388.5	298.9	250.8	229.6	232.2
15°	1026.9	979.7	839.8	674.9	501.8	345.7	237.5	176.6	154.7	147.7	148.6
17.5°	1024.1	961.7	786.8	578.6	374.5	220.1	153.5	135.4	130.7	129.4	129.8
20°	1021.3	943.4	732.3	483.4	258.0	148.0	126.1	120.8	119.1	117.5	117.9
22.5°	1016.6	925.9	673.7	386.9	174.0	120.1	113.7	108.6	104.9	103.0	103.3
25°	1010.8	907.5	613.9	288.2	127.0	107.2	101.0	93.8	89.5	85.9	86.1
27.5°	1001.5	884.9	552.1	209.8	106.6	95.9	87.7	79.8	72.4	68.4	68.4
30°	988.5	859.3	483.6	150.1	95.6	84.9	74.9	65.1	57.2	53.5	53.1
32.5°	974.1	832.6	414.3	113.8	86.8	74.5	63.1	52.8	45.8	42.8	42.6
35°	961.9	803.8	345.2	95.4	78.1	64.5	52.1	43.3	37.7	35.3	35.1
37.5°	954.0	775.1	277.8	85.2	70.2	55.2	43.7	35.8	31.7	29.8	29.6
40°	952.7	753.7	216.3	77.5	62.8	47.0	36.5	30.3	26.7	24.6	24.4
42.5°	968.7	741.4	165.9	71.0	55.2	39.8	31.0	26.0	22.1	20.0	19.8
45°	1010.6	745.2	127.7	65.2	47.7	33.7	26.3	21.6	18.1	16.5	16.1
47.5°	1087.1	771.9	101.6	59.5	40.5	28.6	22.5	17.9	14.9	13.3	13.2
50°	1223.2	834.5	84.9	53.1	33.9	24.4	18.6	14.6	12.1	10.7	10.5
52.5°	1403.8	946.1	75.8	47.0	28.1	20.7	15.3	11.6	9.5	8.4	8.2
55°	1603.1	1081.1	69.8	40.3	23.0	17.2	12.1	9.1	7.4	6.5	6.1
57.5°	1797.6	1198.1	64.2	33.9	19.1	14.0	9.6	7.2	5.8	4.9	4.7
60°	1976.3	1305.6	57.7	27.2	15.6	11.0	7.5	5.6	4.6	3.7	3.7
62.5°	2167.7	1388.8	48.8	21.2	12.8	8.4	6.1	5.1	3.7	3.2	3.0
65°	2370.4	1450.5	38.2	16.5	10.0	6.3	5.1	5.3	3.0	2.3	2.1
67.5°	2520.2	1438.2	28.2	13.0	7.7	4.9	4.9	5.6	2.6	1.8	1.6
69°	2487.3	1338.4	23.7	11.2	6.7	4.2	4.6	5.6	2.5	1.6	1.4
70°	2391.7	1227.9	20.9	10.0	6.0	3.9	4.4	5.4	2.3	1.6	1.4
72.5°	1991.8	924.8	16.3	7.5	4.7	3.2	3.7	4.7	2.3	1.6	1.2
75°	1498.2	592.0	12.5	5.4	3.5	2.5	2.8	3.5	2.3	1.4	1.2
77.5°	815.2	213.5	8.9	3.7	2.5	1.9	1.9	2.6	2.1	1.1	0.7
80°	209.6	53.7	5.6	2.5	1.9	1.4	1.2	1.8	1.2	0.2	0.0
82.5°	51.7	12.1	3.0	1.8	1.4	0.5	0.5	0.9	0.5	0.0	0.0
85°	28.4	6.0	1.9	1.2	0.7	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	14.6	1.8	0.5	0.4	0.2	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)