

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: P324005

Luminaire Tested: **GAN-SA1C-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4777 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

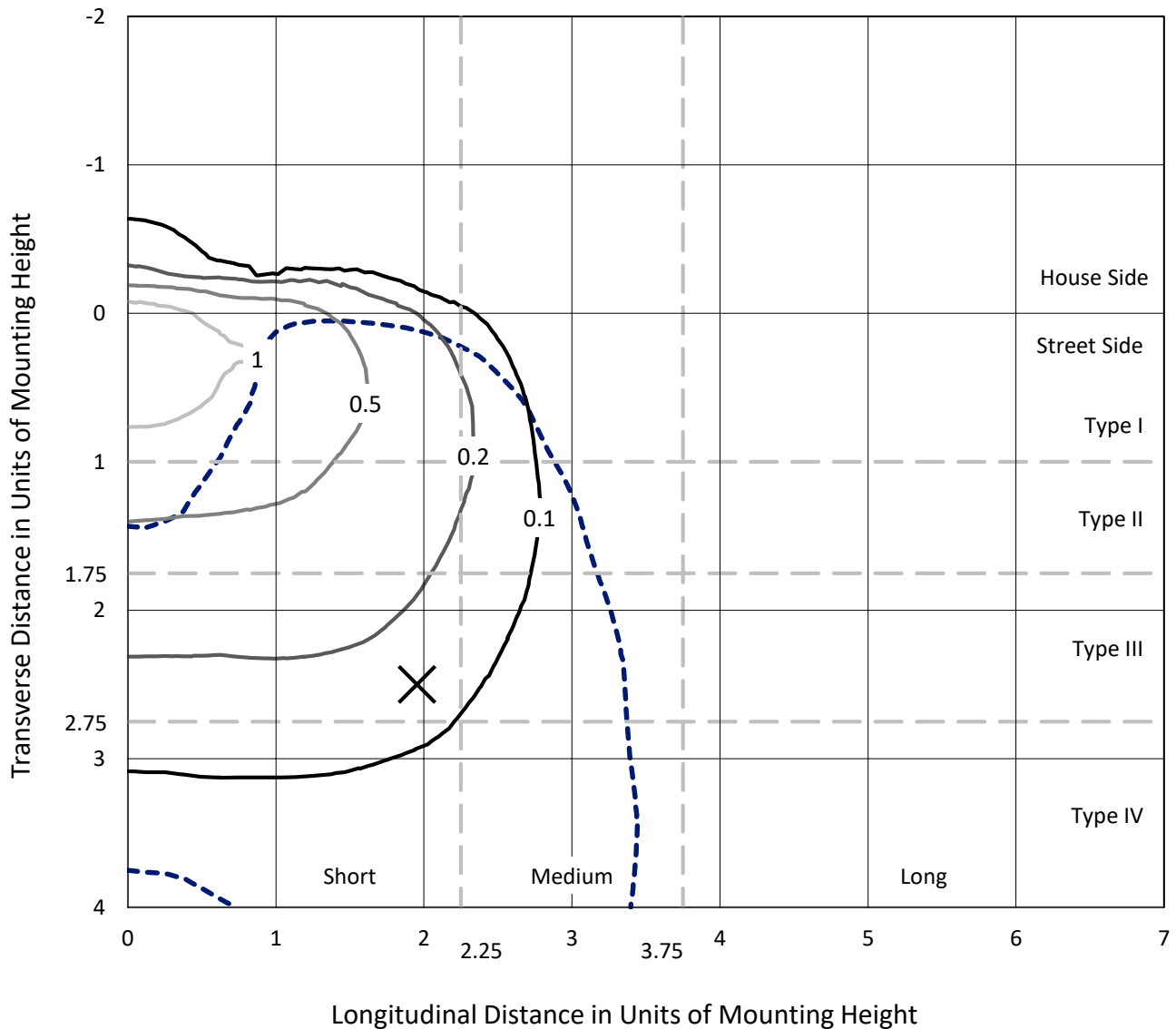
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

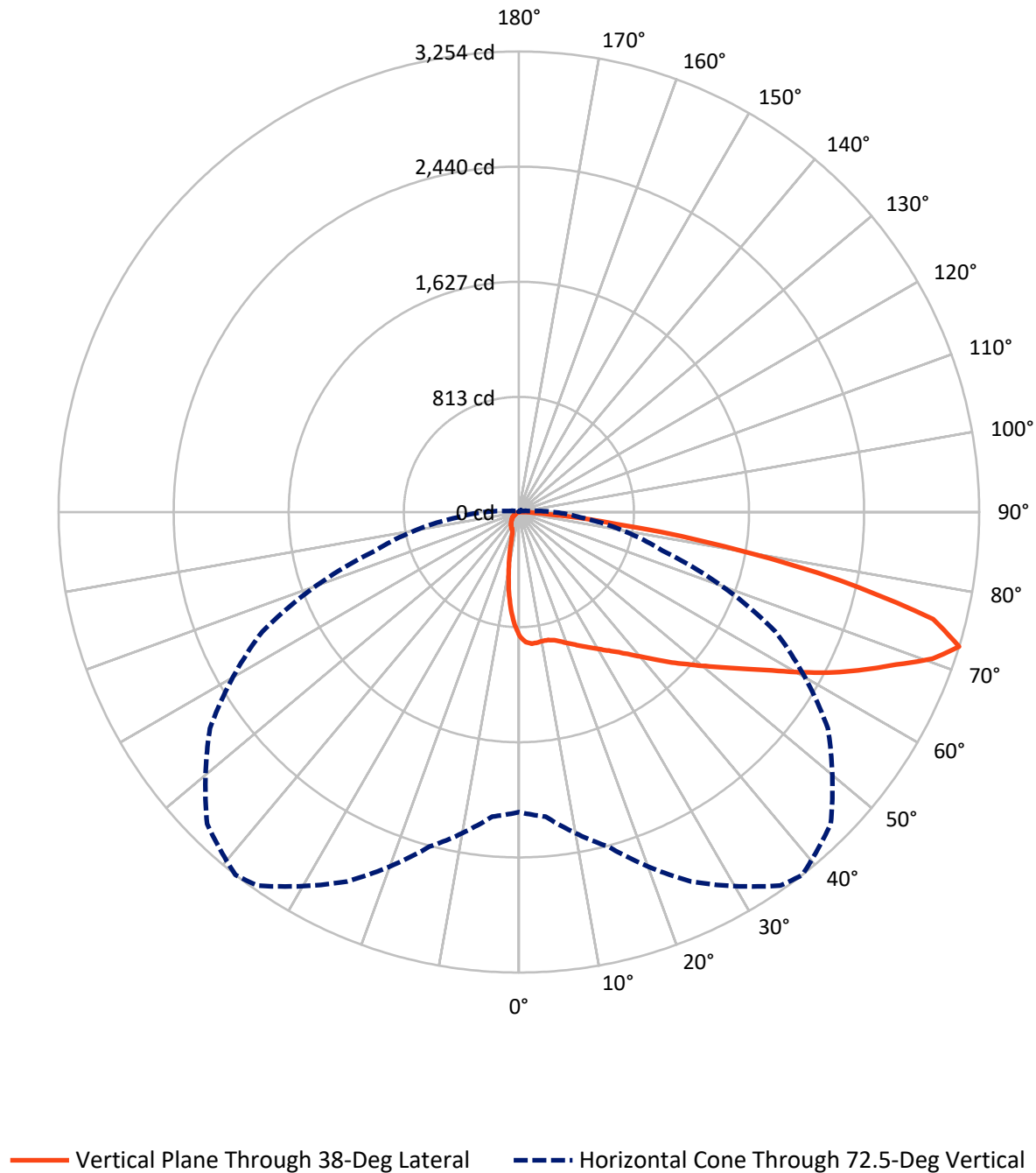
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	402.0	0.0	402.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4375.0	0.0	4375.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	4777.0	0.0	4777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.6
10°-20°	183.1	3.8
20°-30°	291.1	6.1
30°-40°	437.7	9.2
40°-50°	667.8	14.0
50°-60°	943.8	19.8
60°-70°	1183.8	24.8
70°-80°	885.2	18.5
80°-90°	109.8	2.3
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°	4777.0	100.0
0°-180°	4777.0	100.0

Coefficient of Utilization



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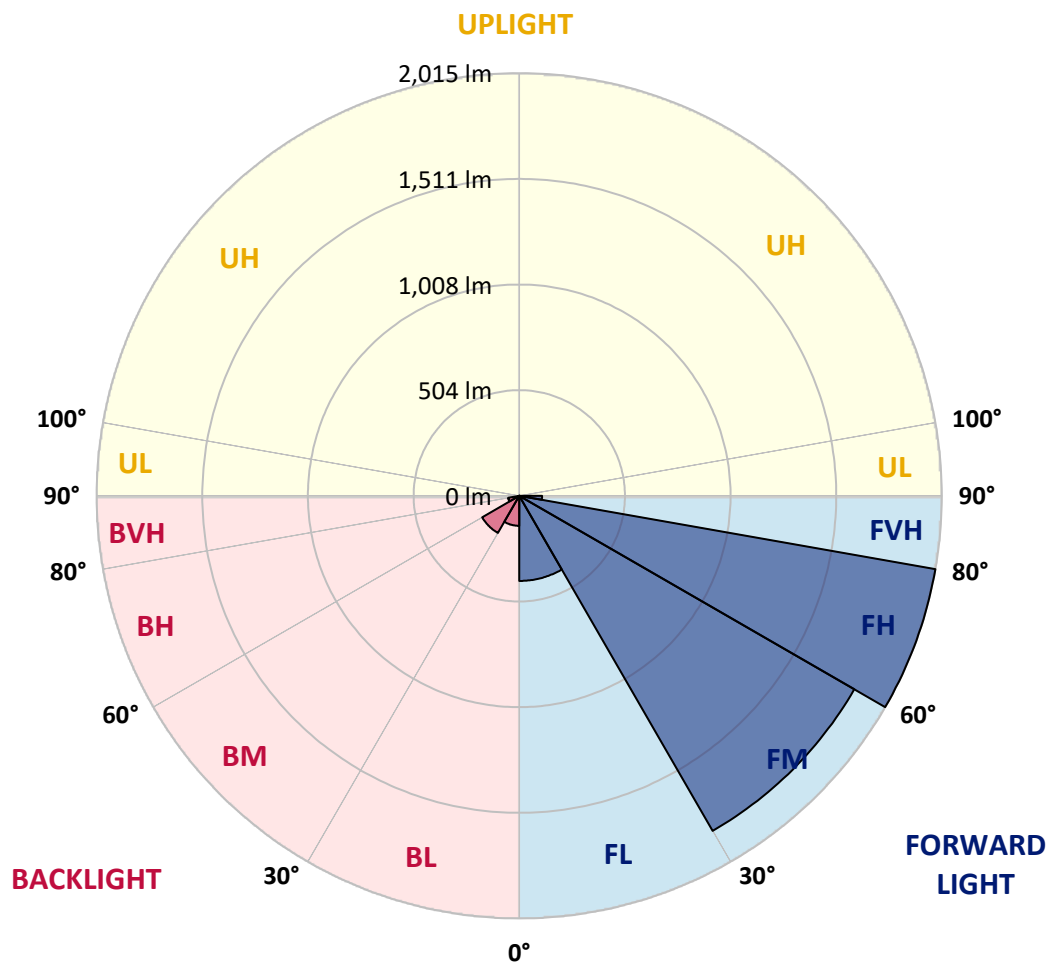
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.9	8.5			
FM	(30°-60°)	1845.1	38.6			
FH	(60°-80°)	2015.3	42.2			G2/5000
FVH	(80°-90°)	108.7	2.3			G2/225
BL	(0°-30°)	143.1	3.0	B1/500		
BM	(30°-60°)	204.1	4.3	B0/220		
BH	(60°-80°)	53.7	1.1	B0/110		G0/110
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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5
2.5°	932.4	932.6	930.5	926.9	922.3	919.9	916.0	909.6	902.9	890.8	877.7
5°	951.5	951.5	948.7	943.9	936.6	934.4	926.9	916.8	902.9	883.2	861.2
7.5°	949.5	949.9	946.1	941.2	933.8	931.8	922.7	911.4	894.1	870.3	842.2
10°	939.2	940.2	937.2	934.8	928.1	925.9	917.4	906.1	888.8	863.4	831.1
12.5°	928.7	929.7	930.7	932.8	928.7	927.9	921.1	911.6	895.1	868.8	832.2
15°	921.9	923.9	931.0	939.6	940.6	939.8	935.4	926.5	909.8	882.4	840.8
17.5°	921.9	925.1	940.0	956.2	962.0	962.6	958.8	946.3	926.5	897.1	848.7
20°	929.7	934.0	957.2	980.2	989.8	989.8	982.4	965.0	941.8	910.4	854.1
22.5°	949.5	955.3	984.4	1011.0	1021.1	1018.9	1009.0	983.6	957.6	925.5	860.8
25°	988.6	992.9	1023.3	1050.1	1056.2	1051.3	1038.8	1006.2	977.9	945.9	873.1
27.5°	1039.0	1039.6	1070.9	1093.5	1089.8	1086.4	1070.7	1034.6	1007.0	975.1	894.3
30°	1094.3	1094.3	1121.9	1139.2	1127.7	1124.9	1109.2	1068.9	1044.3	1014.8	924.5
32.5°	1147.9	1150.3	1172.7	1183.6	1170.7	1167.9	1152.7	1112.4	1093.9	1075.3	971.5
35°	1199.7	1201.5	1222.7	1228.6	1216.3	1217.1	1206.2	1172.1	1165.1	1162.8	1042.3
37.5°	1249.9	1250.3	1271.9	1275.7	1269.5	1276.2	1277.2	1247.1	1260.0	1279.2	1142.1
40°	1295.7	1296.1	1317.5	1327.2	1337.7	1346.5	1354.2	1338.1	1380.8	1425.4	1261.0
42.5°	1332.4	1336.6	1363.7	1382.2	1410.0	1426.6	1447.7	1446.9	1524.6	1591.7	1404.6
45°	1364.7	1371.9	1409.8	1442.1	1489.7	1516.3	1549.2	1575.0	1686.5	1776.8	1550.0
47.5°	1407.4	1414.1	1457.4	1510.3	1573.8	1608.8	1663.3	1719.1	1864.5	1958.5	1692.1
50°	1467.5	1464.5	1507.2	1583.2	1664.7	1710.5	1788.3	1871.8	2041.0	2116.8	1775.6
52.5°	1531.6	1530.4	1561.9	1662.3	1771.8	1825.4	1928.2	2029.7	2209.9	2225.9	1813.9
55°	1610.9	1602.4	1629.0	1752.6	1899.0	1956.5	2077.5	2186.1	2344.4	2287.4	1833.1
57.5°	1694.1	1680.0	1705.4	1853.2	2042.4	2110.5	2243.0	2338.4	2433.9	2329.5	1832.9
60°	1780.0	1763.3	1793.5	1978.9	2220.6	2299.3	2422.4	2441.4	2517.4	2350.7	1819.4
62.5°	1851.8	1841.9	1886.7	2113.5	2419.6	2496.9	2557.9	2535.0	2587.8	2367.2	1787.9
65°	1927.8	1928.4	2000.8	2270.4	2631.1	2683.2	2688.4	2656.5	2646.7	2363.8	1681.2
67.5°	2030.5	2040.1	2160.9	2483.5	2836.8	2877.1	2876.7	2788.0	2689.8	2229.7	1444.5
70°	2139.2	2161.7	2345.4	2727.3	3061.4	3102.2	3081.2	2871.7	2532.7	1803.0	1022.3
72.5°	2121.0	2159.9	2447.9	2881.0	3222.7	3253.8	3117.1	2666.0	2001.8	1047.9	435.3
75°	1636.3	1681.4	2244.6	2728.7	3053.4	3025.5	2678.3	2074.6	1093.9	292.4	98.0
77.5°	864.4	888.4	1482.8	2078.7	2380.9	2322.4	1886.7	1150.9	333.5	72.4	44.0
80°	452.7	458.3	646.2	1179.4	1469.5	1469.9	1118.1	505.5	137.5	37.1	29.6
82.5°	242.4	247.2	341.4	545.0	770.0	697.9	428.1	278.1	80.0	21.0	28.4
85°	58.3	59.3	193.6	249.0	302.7	216.2	127.2	233.5	21.6	12.3	23.0
87.5°	22.4	22.8	71.8	107.7	77.2	50.0	59.5	87.1	2.8	4.8	3.6
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°	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5	878.5
2.5°	869.7	864.6	851.9	835.8	821.5	811.2	795.7	785.6	778.9	778.7	776.1
5°	847.7	837.2	809.8	777.3	747.7	721.2	689.8	665.0	646.6	643.6	637.2
7.5°	824.1	806.9	764.8	714.0	664.4	614.0	555.5	519.2	488.0	473.2	471.6
10°	809.6	785.4	725.7	652.3	574.5	492.6	416.0	363.1	324.8	313.9	305.7
12.5°	806.7	774.7	695.6	594.4	483.3	375.0	290.2	233.9	203.4	193.6	191.1
15°	809.6	769.8	670.2	537.0	390.8	266.0	194.8	162.1	150.6	147.8	147.6
17.5°	811.4	763.8	641.4	473.4	301.2	190.1	149.2	139.7	137.9	137.7	138.1
20°	811.2	754.7	607.1	402.3	224.0	149.4	134.9	132.9	132.5	132.7	132.5
22.5°	809.8	744.0	569.4	329.1	169.2	133.5	128.8	127.6	127.4	127.4	127.4
25°	812.4	735.4	527.9	259.1	139.5	126.2	123.2	122.2	122.0	122.0	121.6
27.5°	821.7	730.7	482.5	199.4	126.0	119.6	117.2	117.1	116.5	116.3	116.7
30°	836.8	730.7	432.7	155.1	117.8	112.9	111.1	110.7	110.5	110.3	110.5
32.5°	863.4	736.2	378.3	129.0	110.1	105.3	104.2	104.8	104.2	104.2	104.2
35°	911.4	752.9	321.4	112.5	102.0	98.0	96.8	97.6	97.2	97.2	97.0
37.5°	981.4	783.8	264.1	102.6	94.8	90.7	89.1	90.3	89.9	89.9	89.7
40°	1066.7	828.9	209.5	95.0	87.9	83.5	82.1	82.7	81.7	81.7	82.1
42.5°	1172.1	886.0	161.9	87.7	80.9	76.8	76.0	75.4	73.6	72.6	72.8
45°	1289.1	945.5	126.2	80.5	74.4	71.0	69.8	68.2	65.3	63.3	63.5
47.5°	1393.7	991.4	102.6	73.6	68.4	65.9	64.1	61.1	56.7	54.4	54.6
50°	1448.6	998.3	87.3	66.7	62.9	60.3	57.7	53.2	48.0	45.4	45.2
52.5°	1462.7	965.8	76.0	60.3	57.3	54.4	51.0	44.8	39.1	36.3	35.9
55°	1467.9	916.2	65.9	54.4	51.4	48.0	43.6	36.7	31.3	28.6	28.4
57.5°	1450.8	842.2	57.9	49.0	45.4	41.3	35.9	29.4	24.2	22.0	22.0
60°	1412.9	742.0	51.8	43.2	39.3	34.5	29.0	22.8	18.1	16.3	16.3
62.5°	1337.4	612.2	46.0	37.3	33.5	28.6	23.4	17.3	12.7	11.7	11.9
65°	1194.7	464.4	40.3	31.9	28.6	23.6	18.3	12.3	8.5	8.5	8.9
67.5°	974.3	322.6	34.3	27.2	24.6	19.2	13.9	8.5	6.0	6.7	7.5
70°	645.0	180.9	29.4	22.4	21.0	15.3	10.3	5.8	4.8	6.3	7.7
72.5°	243.4	70.4	24.6	18.1	18.3	11.7	7.3	4.4	4.4	6.9	9.1
75°	67.8	34.5	17.7	13.3	14.3	8.5	5.4	3.8	4.2	7.9	10.7
77.5°	39.9	25.4	11.5	7.7	9.7	6.0	3.6	3.0	3.6	6.7	10.3
80°	32.1	13.5	6.7	4.0	5.4	3.4	2.4	1.8	1.0	2.6	5.4
82.5°	32.1	8.1	3.2	2.8	2.8	1.8	1.2	0.8	0.2	0.0	1.4
85°	21.6	3.4	2.0	1.8	1.4	0.6	0.4	0.2	0.0	0.0	0.0
87.5°	3.6	1.4	0.8	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)