

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: P323365

Luminaire Tested: **GAN-SA1C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323365
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-SA1C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4874 lumens
Efficiency: N/A
Efficacy: 82.6 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

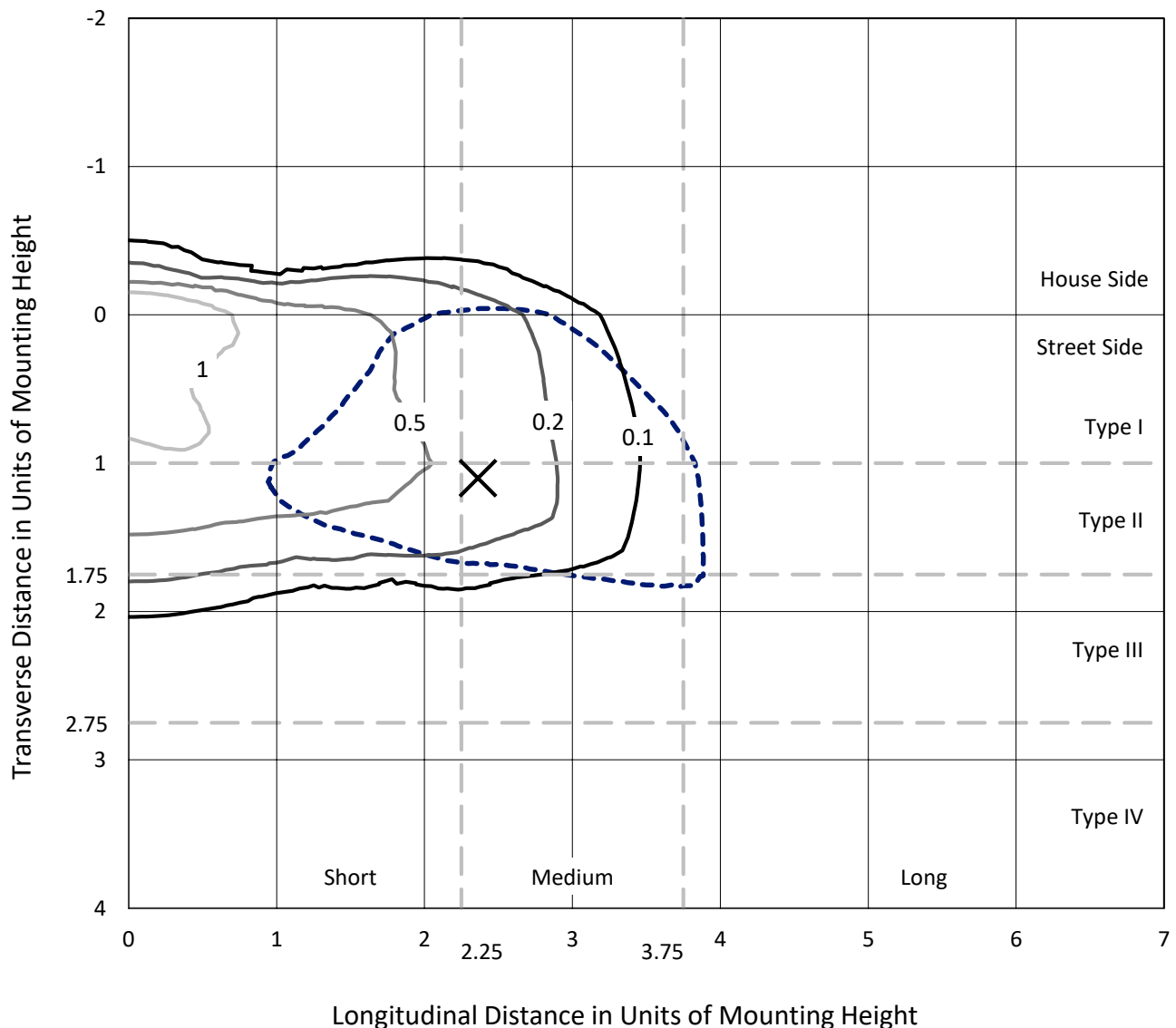
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

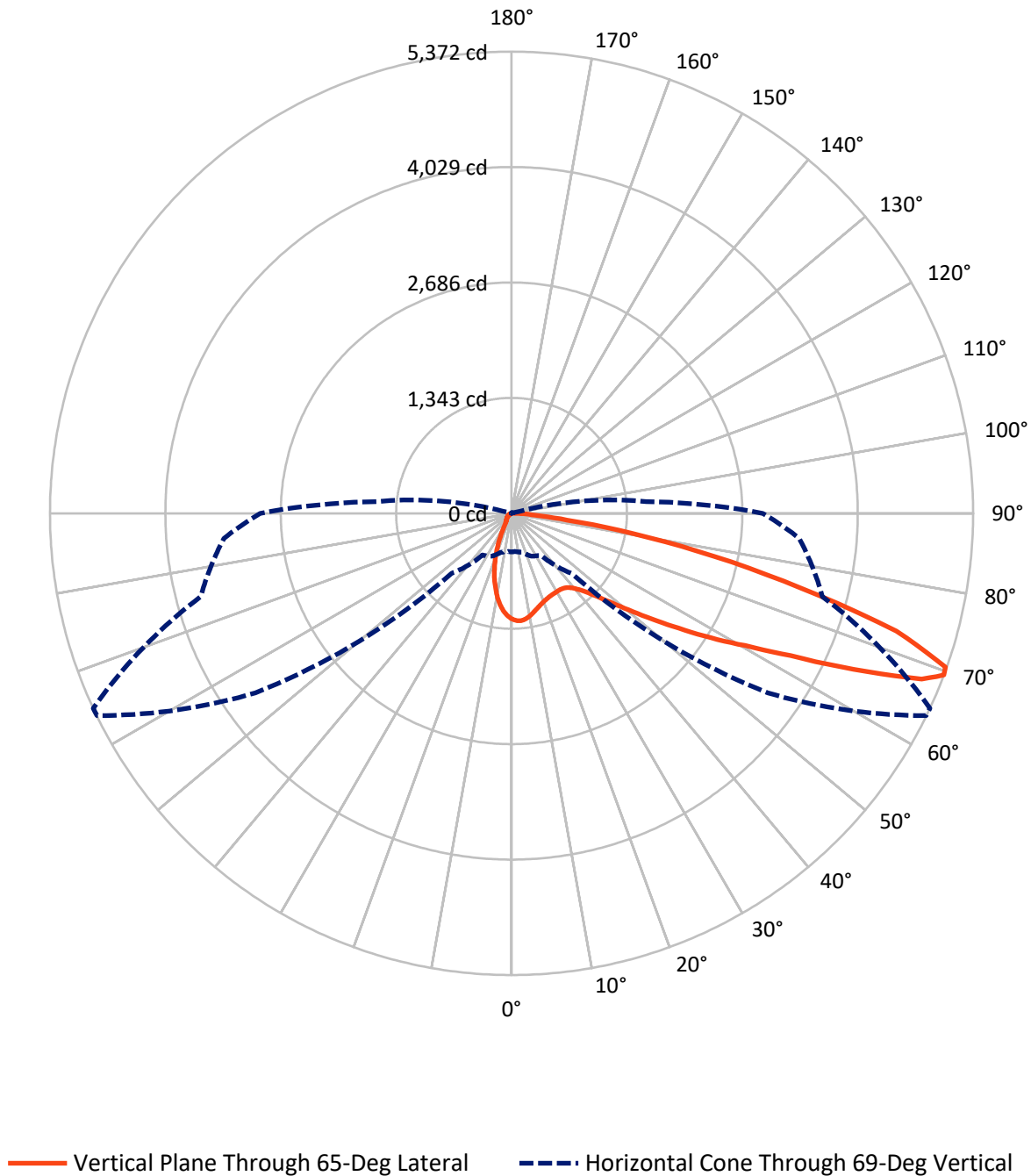
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	574.5	0.0	574.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4299.5	0.0	4299.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	4874.0	0.0	4874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	2.1
10°-20°	225.5	4.6
20°-30°	312.3	6.4
30°-40°	435.4	8.9
40°-50°	676.7	13.9
50°-60°	1086.4	22.3
60°-70°	1229.0	25.2
70°-80°	721.8	14.8
80°-90°	84.0	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°	4874.0	100.0
0°-180°	4874.0	100.0

Coefficient of Utilization



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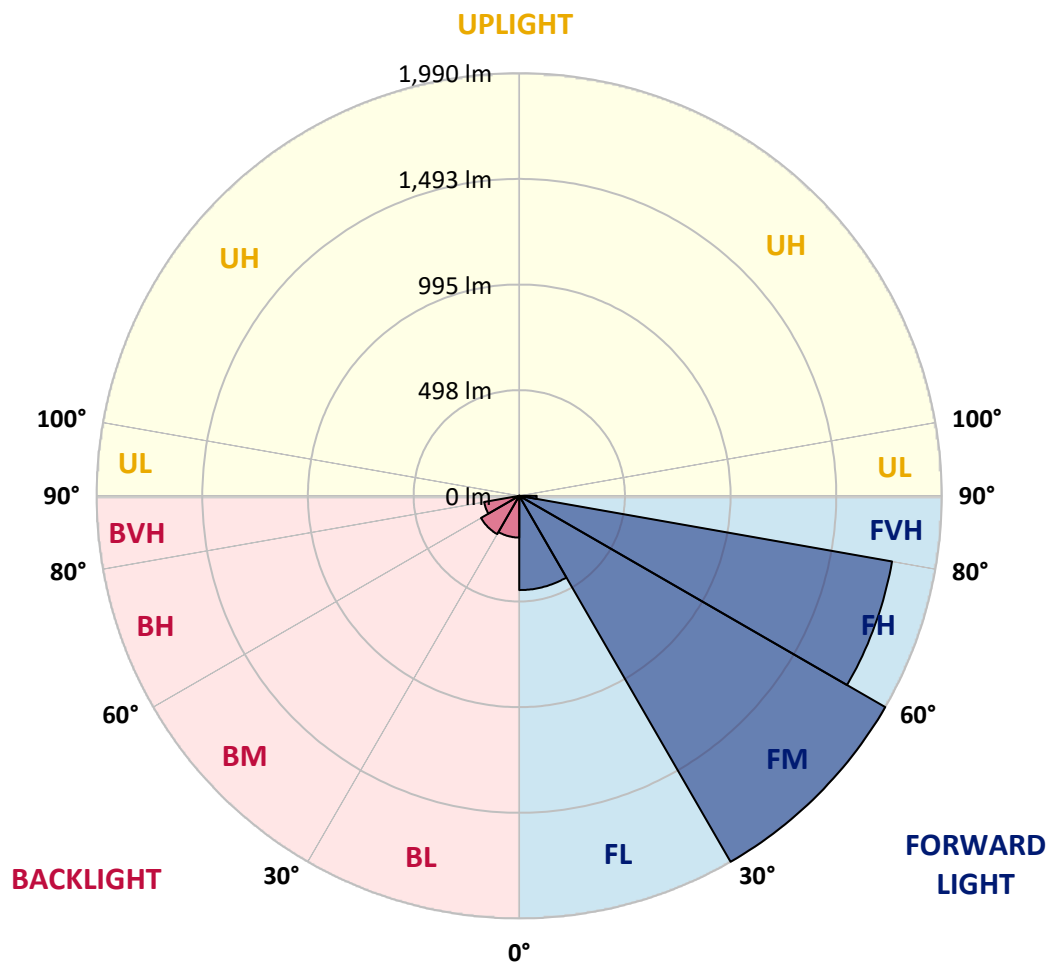
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.1	9.1			
FM	(30°-60°)	1990.4	40.8			
FH	(60°-80°)	1782.9	36.6			G1/1800
FVH	(80°-90°)	82.1	1.7			G1/100
BL	(0°-30°)	196.6	4.0	B1/500		
BM	(30°-60°)	208.2	4.3	B0/220		
BH	(60°-80°)	167.9	3.4	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7
2.5°	1242.6	1239.5	1242.0	1247.3	1250.0	1250.0	1252.1	1249.6	1250.4	1244.5	1235.8
5°	1164.8	1160.1	1166.9	1182.0	1200.5	1216.4	1239.9	1252.3	1253.5	1253.7	1243.6
7.5°	1081.1	1076.8	1086.9	1104.6	1128.5	1158.0	1199.1	1235.0	1237.0	1256.4	1249.0
10°	1013.1	1010.0	1021.7	1040.7	1068.7	1101.7	1152.1	1202.0	1208.0	1250.8	1248.2
12.5°	959.0	956.5	967.7	989.5	1018.2	1054.7	1107.3	1165.3	1173.3	1238.3	1244.0
15°	919.6	919.2	928.5	949.5	981.3	1015.3	1069.2	1131.2	1140.5	1224.7	1243.4
17.5°	899.0	899.6	906.4	924.4	951.6	985.4	1037.0	1102.6	1112.7	1212.5	1246.5
20°	896.9	897.6	901.3	911.4	933.4	963.3	1010.8	1078.4	1088.9	1203.4	1251.5
22.5°	915.1	914.7	915.7	914.7	927.1	949.7	993.5	1059.9	1072.0	1197.4	1255.4
25°	949.9	949.3	948.9	941.3	933.0	945.2	986.2	1049.4	1060.9	1193.1	1257.7
27.5°	998.4	998.0	997.4	984.8	960.0	952.4	987.1	1045.4	1055.1	1189.6	1257.2
30°	1062.1	1065.0	1064.2	1046.7	1008.1	974.5	995.7	1043.4	1051.8	1182.8	1252.9
32.5°	1137.0	1142.8	1147.3	1128.5	1080.3	1018.2	1015.7	1045.6	1051.8	1177.6	1245.1
35°	1214.8	1222.2	1238.9	1232.3	1168.8	1084.0	1050.2	1059.3	1064.4	1180.5	1241.4
37.5°	1291.3	1300.1	1336.4	1355.6	1284.7	1171.0	1103.8	1092.9	1095.5	1198.1	1245.5
40°	1380.2	1393.6	1448.6	1479.6	1423.1	1287.6	1184.0	1150.6	1151.6	1236.6	1264.7
42.5°	1496.9	1510.7	1570.3	1618.8	1579.0	1434.8	1292.9	1238.9	1237.9	1308.8	1309.8
45°	1639.2	1653.6	1715.3	1769.1	1751.2	1609.3	1432.3	1367.8	1366.5	1422.6	1395.4
47.5°	1800.5	1814.7	1869.8	1925.3	1944.6	1813.1	1609.9	1543.7	1540.8	1580.8	1527.6
50°	1938.9	1948.1	1998.9	2073.5	2161.0	2063.4	1830.8	1767.1	1764.0	1791.0	1721.7
52.5°	1989.2	1994.6	2046.1	2150.7	2368.9	2402.5	2121.0	2038.9	2036.6	2048.4	1980.1
55°	1887.3	1897.0	1960.3	2115.4	2481.5	2785.7	2487.3	2375.5	2358.4	2333.0	2250.3
57.5°	1609.7	1625.2	1693.2	1899.5	2428.9	3089.7	3025.5	2756.2	2731.0	2575.9	2469.9
60°	1206.1	1225.1	1281.6	1504.1	2148.2	3198.0	3613.7	3180.4	3123.7	2769.4	2671.8
62.5°	827.6	837.1	875.5	1020.5	1582.1	3020.6	4105.8	3748.6	3645.1	2979.8	2890.3
65°	632.1	635.4	651.1	701.0	942.1	2453.6	4301.6	4498.3	4373.1	3231.4	3116.9
67.5°	509.4	506.7	528.4	599.7	630.9	1496.9	4073.3	5207.6	5149.0	3567.8	3345.0
69°	449.2	445.5	467.5	550.5	592.5	989.5	3641.4	5368.6	5372.4	3745.3	3360.7
70°	404.2	406.7	428.6	521.2	579.5	776.7	3228.9	5327.6	5356.9	3811.7	3266.6
72.5°	270.0	276.6	320.5	432.7	557.3	587.8	1949.6	4571.7	4684.3	3662.2	2802.6
75°	152.2	157.2	209.3	326.3	525.1	559.7	1029.8	3368.1	3477.0	3062.5	2161.2
77.5°	74.7	77.3	118.4	210.6	439.1	533.3	584.1	2287.8	2412.2	1998.9	1222.4
80°	31.6	33.0	59.2	129.9	313.9	509.0	433.7	1408.0	1423.5	783.1	325.7
82.5°	12.2	12.6	25.0	81.1	199.4	396.8	362.8	667.6	651.5	147.5	74.2
85°	1.4	1.6	9.1	48.7	111.0	204.2	294.7	287.7	266.3	29.3	38.2
87.5°	0.0	0.0	0.6	14.8	33.0	95.7	153.2	119.4	107.7	9.5	19.8
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°	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7	1231.7
2.5°	1228.6	1226.5	1215.4	1199.3	1184.0	1165.1	1146.9	1136.0	1127.3	1121.5	1128.3
5°	1231.9	1222.8	1189.0	1145.7	1103.2	1055.3	1010.8	973.0	958.2	941.7	949.1
7.5°	1230.8	1213.7	1152.9	1075.8	997.8	917.2	840.8	782.1	751.5	721.6	729.3
10°	1225.7	1196.8	1104.6	990.4	873.6	757.7	649.5	567.2	521.2	479.5	485.5
12.5°	1214.3	1174.1	1047.7	892.6	736.5	583.7	456.8	351.4	294.9	270.0	273.1
15°	1207.5	1152.1	987.5	793.6	590.1	406.5	279.2	207.7	181.9	173.7	174.7
17.5°	1204.2	1130.8	925.2	680.4	440.3	258.8	180.5	159.2	153.6	152.2	152.6
20°	1200.9	1109.4	861.1	568.4	303.4	174.1	148.3	142.1	140.0	138.2	138.6
22.5°	1195.4	1088.7	792.2	455.0	204.6	141.3	133.6	127.7	123.3	121.1	121.5
25°	1188.6	1067.1	721.8	338.9	149.3	126.0	118.8	110.3	105.2	101.1	101.3
27.5°	1177.6	1040.5	649.2	246.7	125.4	112.8	103.1	93.8	85.2	80.4	80.4
30°	1162.4	1010.4	568.6	176.5	112.4	99.8	88.1	76.5	67.2	62.9	62.5
32.5°	1145.5	979.0	487.1	133.9	102.1	87.7	74.2	62.1	53.8	50.3	50.1
35°	1131.0	945.2	405.9	112.2	91.8	75.9	61.3	50.9	44.3	41.5	41.2
37.5°	1121.7	911.4	326.7	100.2	82.5	65.0	51.4	42.1	37.3	35.1	34.9
40°	1120.3	886.2	254.3	91.2	73.8	55.3	42.9	35.7	31.3	28.9	28.7
42.5°	1139.1	871.8	195.1	83.5	65.0	46.8	36.5	30.5	26.0	23.5	23.3
45°	1188.4	876.3	150.1	76.7	56.1	39.6	30.9	25.4	21.2	19.4	19.0
47.5°	1278.3	907.7	119.4	69.9	47.6	33.6	26.4	21.0	17.5	15.7	15.5
50°	1438.3	981.3	99.8	62.5	39.8	28.7	21.9	17.1	14.2	12.6	12.4
52.5°	1650.7	1112.5	89.1	55.3	33.0	24.3	17.9	13.6	11.1	9.9	9.7
55°	1885.0	1271.3	82.1	47.4	27.0	20.2	14.2	10.7	8.7	7.6	7.2
57.5°	2113.8	1408.8	75.5	39.8	22.5	16.5	11.3	8.5	6.8	5.8	5.6
60°	2323.9	1535.3	67.9	32.0	18.4	13.0	8.9	6.6	5.4	4.3	4.3
62.5°	2548.9	1633.0	57.3	25.0	15.1	9.9	7.2	6.0	4.3	3.7	3.5
65°	2787.3	1705.6	45.0	19.4	11.8	7.4	6.0	6.2	3.5	2.7	2.5
67.5°	2963.5	1691.2	33.2	15.3	9.1	5.8	5.8	6.6	3.1	2.1	1.9
69°	2924.7	1573.8	27.8	13.2	7.8	4.9	5.4	6.6	2.9	1.9	1.6
70°	2812.3	1443.9	24.5	11.8	7.0	4.5	5.2	6.4	2.7	1.9	1.6
72.5°	2342.1	1087.5	19.2	8.9	5.6	3.7	4.3	5.6	2.7	1.9	1.4
75°	1761.7	696.1	14.6	6.4	4.1	2.9	3.3	4.1	2.7	1.6	1.4
77.5°	958.6	251.0	10.5	4.3	2.9	2.3	2.3	3.1	2.5	1.2	0.8
80°	246.5	63.1	6.6	2.9	2.3	1.6	1.4	2.1	1.4	0.2	0.0
82.5°	60.8	14.2	3.5	2.1	1.6	0.6	0.6	1.0	0.6	0.0	0.0
85°	33.4	7.0	2.3	1.4	0.8	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	17.1	2.1	0.6	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)