

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: P317685

Luminaire Tested: **GAN-SA1C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6331 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

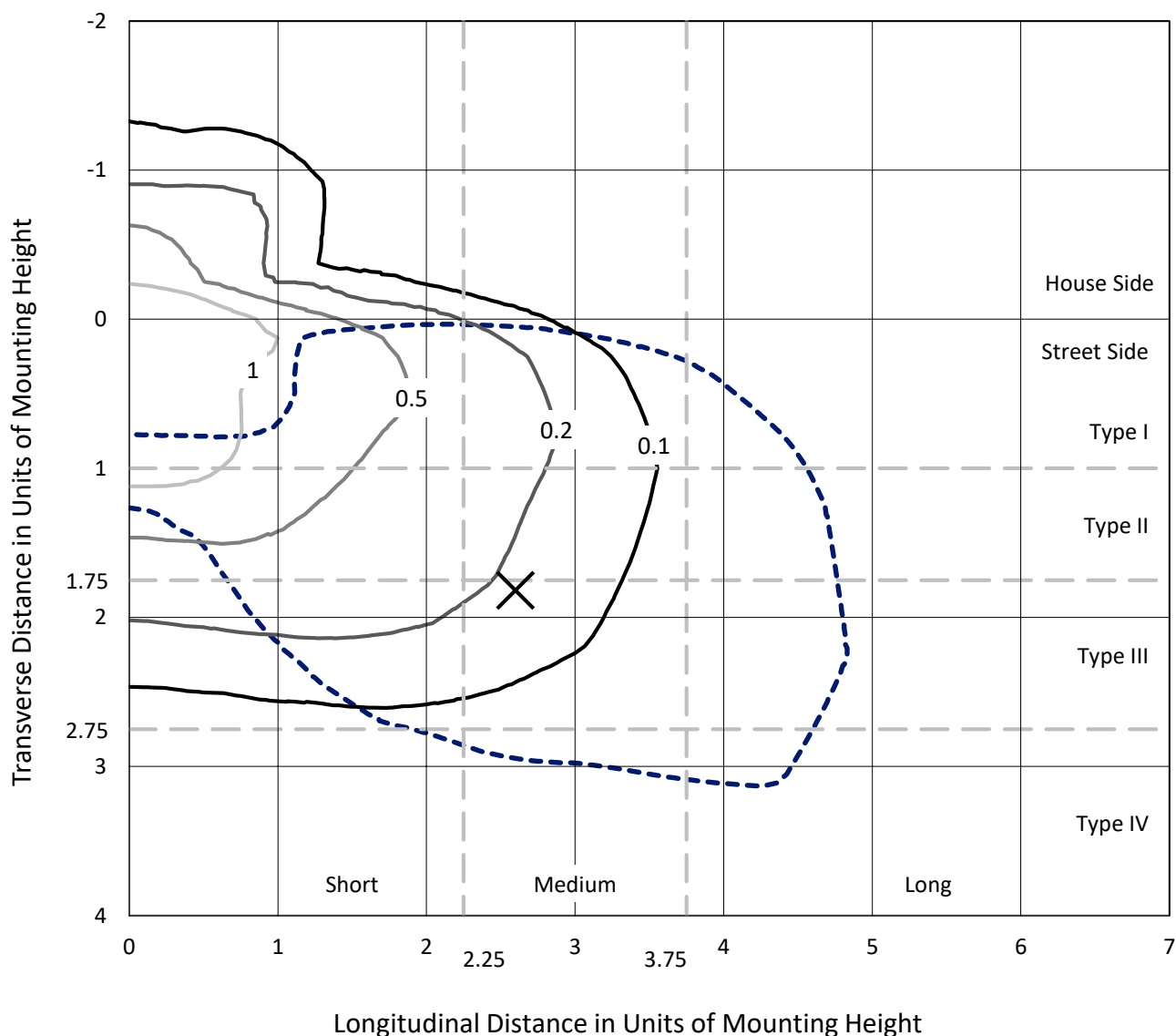
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

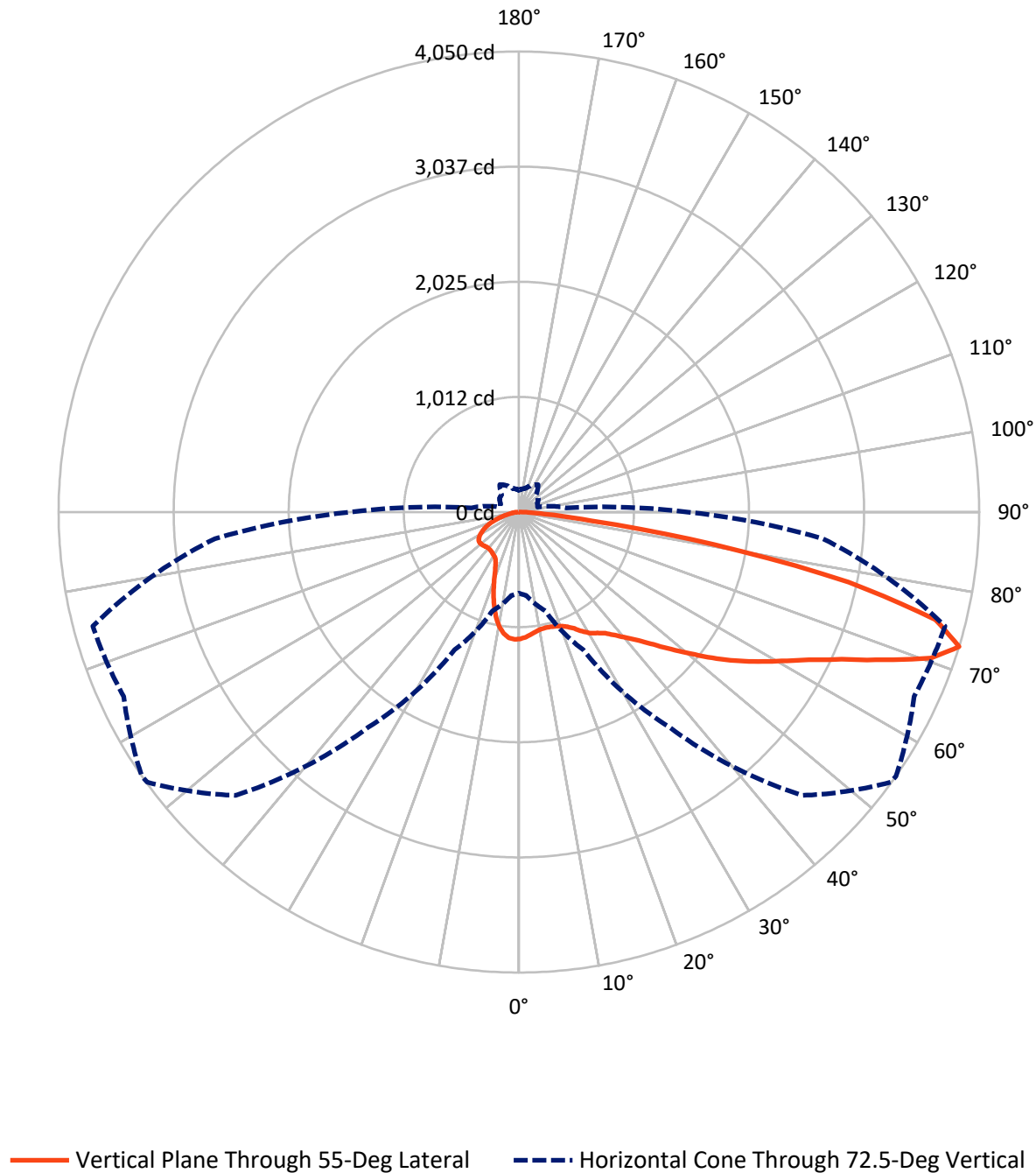
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.7	0.0	1176.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5154.3	0.0	5154.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	6331.0	0.0	6331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.6
10°-20°	269.0	4.2
20°-30°	443.5	7.0
30°-40°	656.1	10.4
40°-50°	915.8	14.5
50°-60°	1192.4	18.8
60°-70°	1465.4	23.1
70°-80°	1148.7	18.1
80°-90°	139.0	2.2
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°	6331.0	100.0
0°-180°	6331.0	100.0

Coefficient of Utilization



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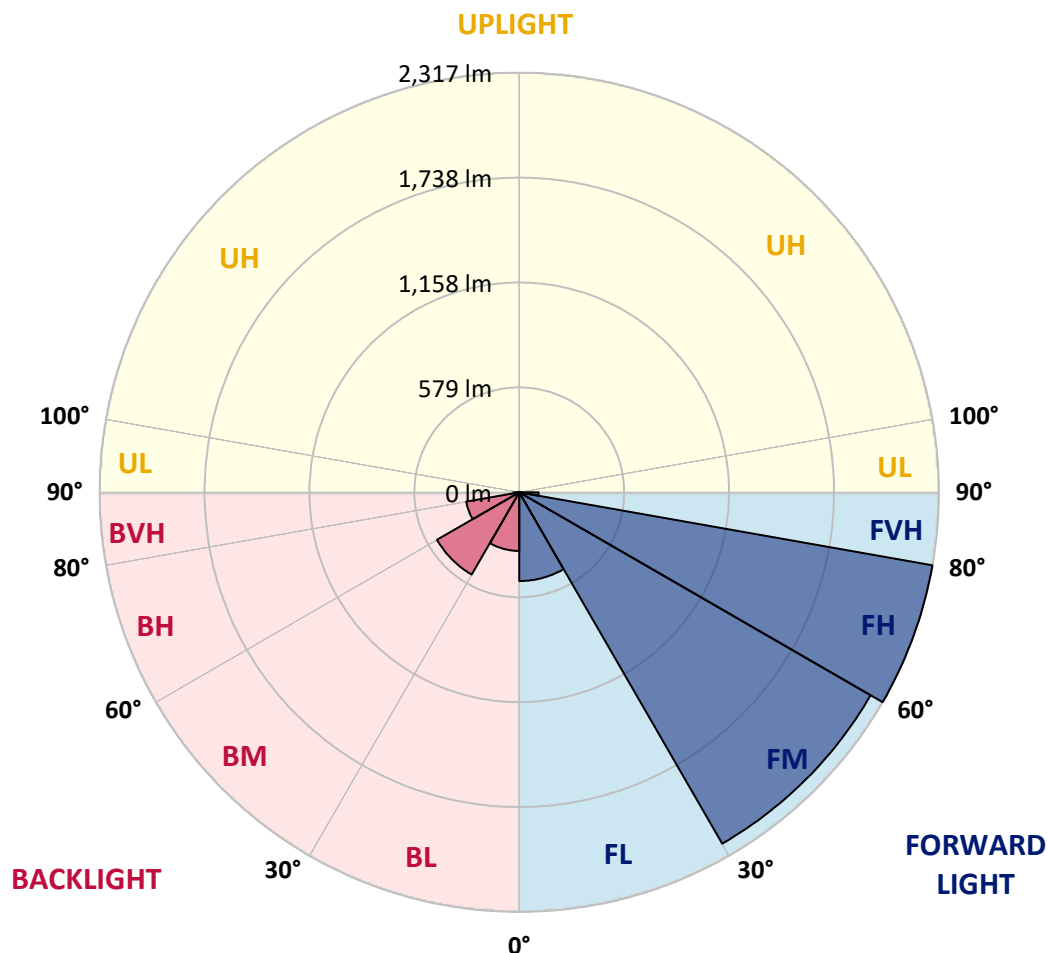
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	489.8	7.7			
FM	(30°-60°)	2240.0	35.4			
FH	(60°-80°)	2316.9	36.6			G2/5000
FVH	(80°-90°)	107.5	1.7			G2/225
BL	(0°-30°)	323.8	5.1	B1/500		
BM	(30°-60°)	524.3	8.3	B1/1000		
BH	(60°-80°)	297.2	4.7	B1/500		G1/500
BVH	(80°-90°)	31.5	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7
2.5°	1080.3	1077.7	1080.9	1085.4	1090.4	1097.0	1100.8	1102.5	1109.2	1111.7	1117.3
5°	1030.3	1029.0	1034.3	1042.0	1052.9	1068.3	1080.7	1083.1	1100.6	1113.0	1124.4
7.5°	993.9	993.9	1000.1	1009.3	1021.5	1042.2	1059.8	1063.0	1092.7	1119.4	1140.4
10°	965.0	966.1	973.4	984.3	998.6	1020.6	1043.9	1047.6	1090.6	1134.4	1167.8
12.5°	945.8	948.4	955.0	964.8	982.6	1009.3	1038.8	1043.7	1095.1	1155.8	1200.7
15°	958.0	962.3	962.9	967.0	976.8	1005.9	1041.8	1046.9	1104.7	1177.6	1238.1
17.5°	1011.4	1012.9	1006.3	997.8	993.1	1011.7	1050.8	1056.1	1116.2	1199.2	1274.0
20°	1092.7	1091.8	1077.5	1054.4	1030.5	1033.5	1065.5	1071.1	1131.8	1218.2	1310.0
22.5°	1195.3	1192.4	1170.3	1127.8	1086.9	1069.8	1091.4	1096.1	1155.4	1245.4	1348.5
25°	1319.8	1313.2	1284.1	1227.0	1166.9	1122.9	1130.3	1134.8	1189.6	1275.7	1383.7
27.5°	1451.1	1444.5	1407.5	1338.4	1258.4	1189.8	1184.0	1187.9	1228.5	1298.2	1409.8
30°	1588.4	1581.3	1547.5	1470.1	1355.5	1259.1	1234.0	1235.5	1255.9	1310.4	1431.2
32.5°	1726.3	1719.7	1681.8	1592.0	1460.9	1333.5	1270.2	1268.3	1272.3	1323.0	1455.4
35°	1866.1	1868.7	1824.4	1725.0	1577.7	1416.2	1313.0	1308.9	1299.9	1348.9	1489.6
37.5°	2015.8	2014.1	1956.8	1852.9	1699.8	1506.0	1374.3	1373.7	1342.7	1397.8	1543.3
40°	2115.9	2117.0	2082.1	1983.8	1823.2	1605.5	1453.0	1451.5	1410.9	1471.2	1613.6
42.5°	2155.0	2162.1	2171.1	2108.6	1952.3	1720.7	1546.9	1544.8	1506.0	1576.4	1696.4
45°	2157.8	2171.9	2227.5	2219.6	2083.2	1852.7	1666.9	1660.9	1633.1	1716.2	1795.2
47.5°	2133.9	2148.4	2240.8	2285.7	2200.2	1991.9	1807.1	1802.4	1778.5	1891.2	1902.1
50°	2081.5	2095.4	2213.4	2318.0	2296.4	2125.7	1968.8	1956.4	1943.6	2093.2	2024.4
52.5°	1983.3	2010.1	2176.9	2325.7	2353.9	2244.6	2138.8	2130.7	2137.7	2306.4	2146.9
55°	1750.9	1780.8	2082.5	2319.3	2396.5	2344.5	2308.8	2308.4	2344.9	2530.1	2278.4
57.5°	1620.7	1641.8	1890.5	2308.4	2446.9	2443.7	2477.1	2481.1	2552.3	2773.7	2416.1
60°	1547.1	1569.3	1793.2	2267.9	2525.2	2572.0	2648.8	2656.9	2763.2	3043.3	2581.9
62.5°	1480.2	1504.6	1732.9	2185.6	2617.4	2755.5	2854.5	2861.8	2986.4	3320.4	2742.0
65°	1365.8	1393.4	1644.6	2131.5	2701.2	2994.8	3116.0	3120.9	3242.8	3610.8	2864.5
67.5°	1204.1	1229.3	1478.0	2012.0	2763.2	3285.4	3463.7	3466.5	3497.1	3815.9	2927.2
70°	1015.3	1024.9	1240.7	1765.2	2689.8	3557.2	3844.8	3845.4	3728.9	3947.2	2916.9
72.5°	713.4	736.0	900.7	1336.3	2311.6	3524.0	4042.6	4049.8	3836.6	3880.9	2683.9
75°	437.5	461.5	565.0	809.8	1466.5	2771.5	3735.1	3785.5	3634.6	3460.3	2192.5
77.5°	292.5	301.5	368.7	472.2	664.4	1594.6	2871.6	2966.5	3019.4	2523.5	1402.1
80°	163.2	180.3	244.4	293.4	295.5	633.6	1721.8	1744.0	1679.9	1004.8	432.6
82.5°	86.4	95.8	163.2	172.4	161.2	212.1	641.7	642.4	536.7	269.4	128.5
85°	66.9	74.8	111.8	105.2	82.3	94.1	211.7	223.2	182.6	110.3	41.9
87.5°	33.4	41.5	75.9	66.7	32.3	26.9	75.7	80.8	72.1	43.2	15.2
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°	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7	1116.7
2.5°	1119.4	1121.4	1123.7	1121.1	1120.3	1116.9	1111.1	1109.8	1106.8	1107.0	1108.7
5°	1129.3	1132.5	1131.2	1121.4	1109.6	1093.1	1076.0	1061.5	1051.9	1051.2	1050.6
7.5°	1148.1	1150.2	1140.2	1112.2	1079.2	1041.2	1005.2	973.8	954.8	950.1	949.0
10°	1177.6	1177.2	1149.6	1093.1	1027.5	959.5	901.7	858.1	832.7	825.2	823.3
12.5°	1210.5	1205.6	1152.8	1058.5	954.4	860.0	786.9	738.4	711.9	703.3	701.2
15°	1244.5	1232.3	1144.9	1006.7	864.5	752.9	676.1	631.2	616.9	612.2	611.4
17.5°	1276.2	1252.7	1122.2	936.6	762.1	646.2	586.3	568.4	571.8	578.0	578.2
20°	1307.2	1266.3	1085.9	848.1	654.1	558.3	538.0	551.3	567.5	580.1	581.8
22.5°	1337.8	1276.0	1039.0	745.9	557.5	508.9	523.3	547.4	566.0	579.7	582.1
25°	1363.4	1278.3	974.5	636.8	490.3	490.3	516.2	539.1	557.5	570.9	573.3
27.5°	1372.8	1262.5	883.4	535.9	456.5	481.8	506.4	525.4	541.0	555.3	557.9
30°	1376.5	1233.2	778.1	454.8	442.6	472.6	493.1	509.4	524.1	537.6	539.9
32.5°	1377.1	1197.9	666.5	408.9	433.0	463.0	476.6	491.0	506.8	512.1	513.0
35°	1381.2	1156.2	548.9	385.3	424.0	454.0	464.9	475.1	449.5	451.4	453.1
37.5°	1392.9	1114.9	450.6	372.1	418.3	449.3	462.3	425.1	405.0	400.3	399.7
40°	1415.0	1070.9	377.6	361.4	416.1	451.6	445.8	396.9	362.2	336.4	332.5
42.5°	1445.5	1023.4	331.0	354.3	417.6	463.0	423.0	369.7	312.2	295.5	293.4
45°	1480.0	973.6	305.8	349.4	422.8	471.7	418.3	333.6	288.9	276.3	275.2
47.5°	1513.3	912.7	292.7	347.3	429.8	464.7	398.4	322.5	277.8	271.1	271.8
50°	1551.6	857.7	284.8	344.9	436.0	460.2	375.9	316.7	273.5	281.6	290.2
52.5°	1583.9	800.8	277.8	340.2	438.4	452.3	370.2	317.8	273.5	289.1	297.2
55°	1622.2	757.8	269.6	330.4	433.9	429.8	366.1	324.2	276.7	266.9	267.7
57.5°	1671.6	743.7	260.7	315.0	418.9	397.1	364.2	330.4	274.8	268.6	270.7
60°	1740.0	758.7	257.0	294.9	395.6	371.4	364.4	327.2	261.3	250.6	250.8
62.5°	1805.2	775.4	256.8	282.3	366.9	348.6	359.5	316.7	254.5	248.3	250.6
65°	1826.6	758.5	246.6	268.2	334.7	321.2	350.5	305.6	249.3	239.9	239.5
67.5°	1797.9	706.1	225.8	245.3	297.7	289.3	338.7	292.3	241.2	233.5	232.2
70°	1712.8	589.1	200.2	215.1	255.5	253.4	320.1	276.9	230.3	223.7	218.1
72.5°	1483.8	419.8	168.7	179.0	208.1	214.9	294.5	256.8	214.9	200.6	192.0
75°	1218.7	310.7	138.6	140.7	158.0	176.6	259.2	233.3	196.7	172.4	165.7
77.5°	746.3	190.1	110.3	111.2	113.3	140.9	213.4	207.0	173.6	143.7	139.0
80°	241.6	103.7	79.8	83.8	77.4	103.3	165.1	176.2	149.0	120.2	115.0
82.5°	91.9	60.5	53.9	56.7	53.7	69.3	120.4	141.1	122.1	98.8	80.4
85°	44.5	34.2	31.9	35.7	33.1	35.5	77.0	103.9	92.6	64.4	59.9
87.5°	15.8	15.2	12.2	16.5	14.1	12.6	23.5	52.4	61.2	44.3	39.6
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)