

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: P322736

Luminaire Tested: **GAN-SA2D-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8958 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

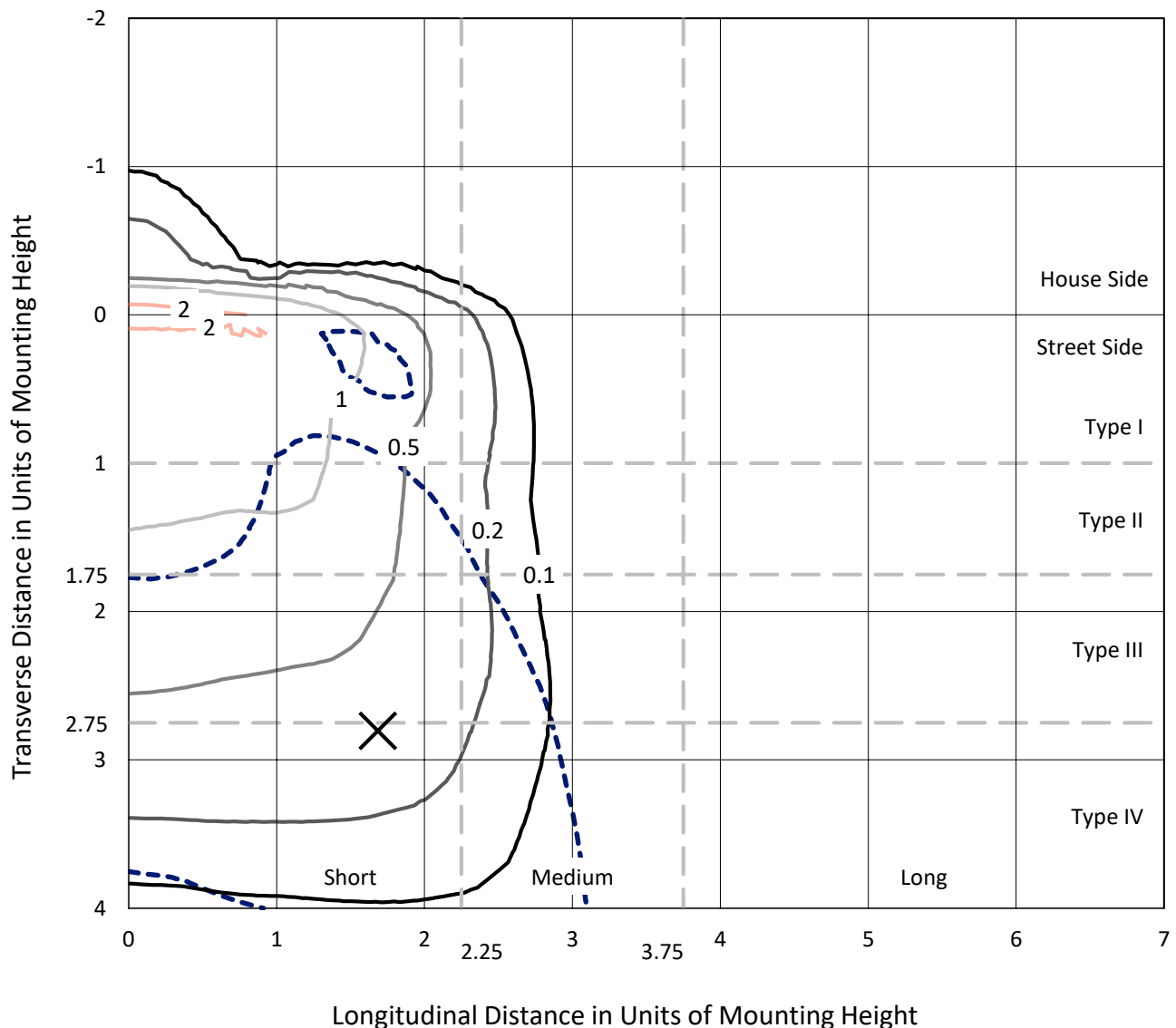
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

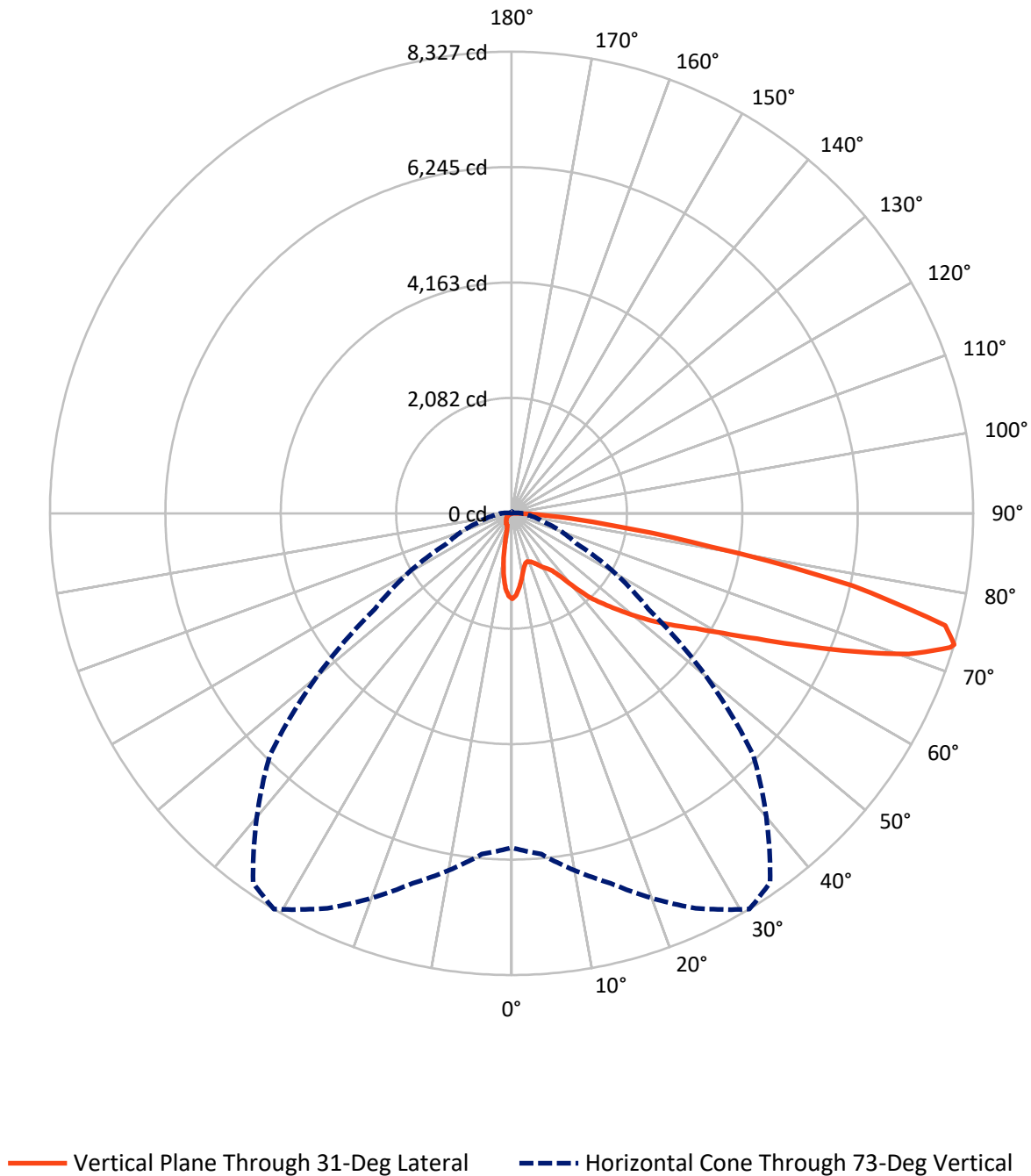
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	816.6	0.0	816.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	8141.4	0.0	8141.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	8958.0	0.0	8958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.4
10°-20°	277.5	3.1
20°-30°	415.7	4.6
30°-40°	661.4	7.4
40°-50°	1181.1	13.2
50°-60°	1832.8	20.5
60°-70°	2436.4	27.2
70°-80°	1832.7	20.5
80°-90°	192.6	2.1
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°	8958.0	100.0
0°-180°	8958.0	100.0

Coefficient of Utilization



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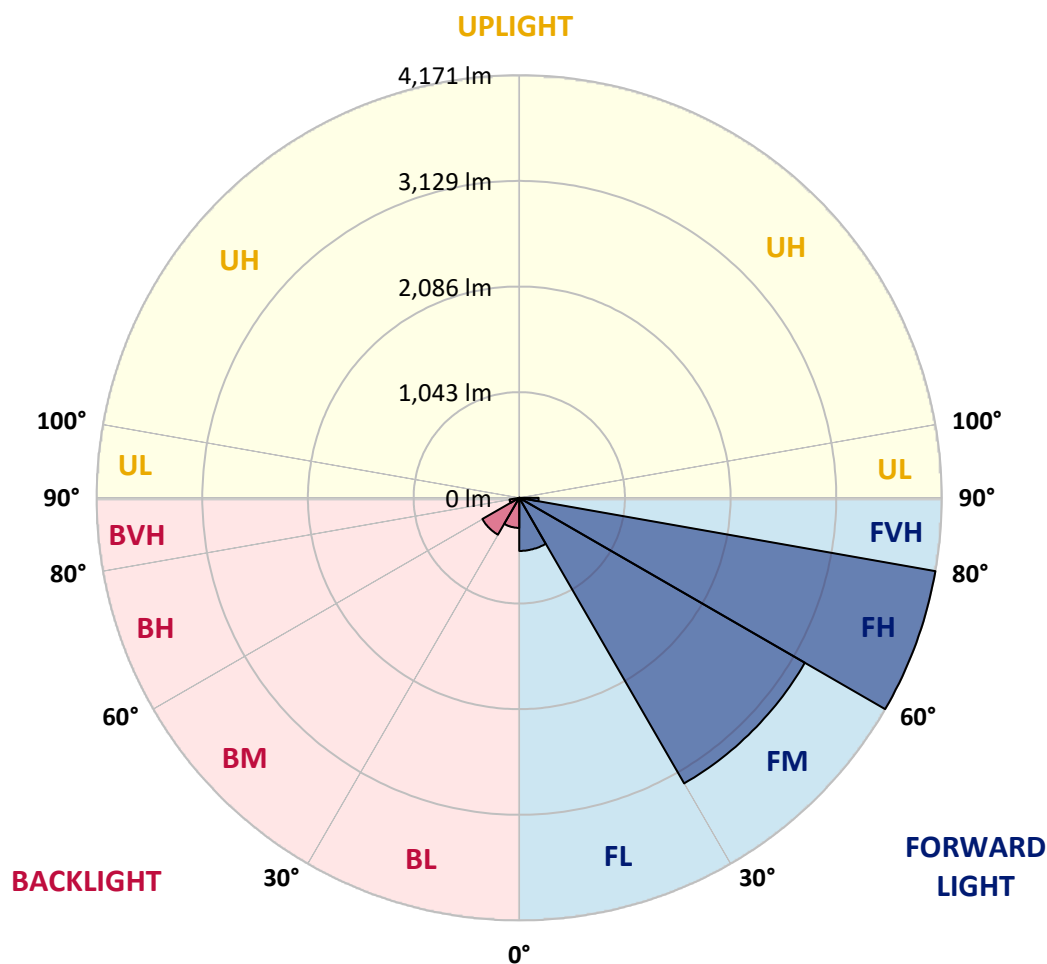
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.1	5.9			
FM	(30°-60°)	3255.0	36.3			
FH	(60°-80°)	4171.4	46.6			G2/5000
FVH	(80°-90°)	191.0	2.1			G2/225
BL	(0°-30°)	296.9	3.3	B1/500		
BM	(30°-60°)	420.3	4.7	B1/1000		
BH	(60°-80°)	97.7	1.1	B0/110		G0/110
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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1460.6	1466.7	1473.3	1474.6	1485.6	1486.0	1501.8	1513.6	1525.5	1536.9	1540.8
5°	1310.7	1320.8	1332.6	1344.4	1367.7	1376.9	1415.4	1454.9	1492.6	1528.5	1546.1
7.5°	1150.7	1162.1	1178.7	1208.1	1234.0	1251.9	1312.9	1383.0	1453.1	1519.3	1557.5
10°	1004.7	1015.2	1032.8	1063.9	1103.8	1128.3	1210.3	1307.6	1410.6	1511.0	1574.6
12.5°	911.8	917.5	927.1	960.4	996.4	1024.0	1120.4	1241.0	1375.5	1510.6	1602.2
15°	894.7	896.4	888.5	903.4	931.5	958.2	1056.0	1187.1	1348.8	1517.6	1638.1
17.5°	921.9	921.0	894.7	892.9	915.3	937.2	1024.4	1149.8	1330.0	1533.8	1684.6
20°	963.1	960.0	914.4	906.1	929.7	950.3	1022.2	1135.8	1322.9	1561.0	1741.1
22.5°	1017.9	1012.6	941.1	932.4	957.8	979.3	1049.4	1149.4	1329.1	1597.4	1806.9
25°	1085.8	1077.9	987.2	977.5	1003.4	1024.9	1098.1	1188.4	1347.5	1641.6	1890.2
27.5°	1162.5	1151.1	1060.8	1035.8	1065.2	1087.5	1162.9	1248.0	1376.4	1688.5	1992.3
30°	1234.8	1219.9	1138.4	1097.2	1133.1	1158.1	1233.1	1319.0	1422.9	1760.9	2132.1
32.5°	1307.6	1290.9	1207.7	1158.6	1191.0	1218.2	1305.4	1416.8	1510.1	1871.3	2318.0
35°	1475.1	1457.5	1355.4	1274.3	1273.8	1289.2	1406.7	1550.4	1625.4	2025.2	2539.8
37.5°	1756.9	1746.8	1649.5	1495.7	1454.4	1437.4	1544.7	1710.0	1791.1	2236.9	2790.1
40°	2065.5	2056.7	1947.6	1808.2	1745.5	1703.4	1742.9	1932.3	2025.2	2495.5	3045.7
42.5°	2414.0	2372.4	2177.7	2136.1	2080.0	2048.0	2012.5	2206.2	2312.7	2777.0	3299.0
45°	2730.5	2660.4	2407.9	2344.7	2332.0	2339.9	2359.6	2574.4	2636.2	3111.4	3551.5
47.5°	2919.0	2863.7	2670.0	2609.5	2606.0	2658.2	2807.2	2990.4	2958.4	3402.9	3773.8
50°	3098.3	3048.3	2887.4	2902.3	2918.5	2989.6	3315.2	3418.3	3252.6	3667.2	3977.6
52.5°	3243.4	3167.1	3082.9	3166.6	3246.4	3360.8	3839.5	3802.3	3461.2	3877.7	4152.1
55°	3327.1	3292.5	3333.2	3417.4	3567.3	3753.2	4334.4	4121.8	3613.8	4069.7	4268.2
57.5°	3633.9	3566.0	3647.1	3719.8	3915.4	4175.3	4758.3	4359.8	3723.8	4188.4	4295.0
60°	4005.2	3950.4	3998.2	4119.2	4383.1	4688.6	5154.6	4554.0	3781.2	4264.7	4225.7
62.5°	4596.1	4523.8	4494.0	4629.4	4979.2	5312.8	5455.3	4688.6	3768.5	4231.0	3988.1
65°	5387.8	5312.8	5179.6	5302.3	5747.2	5982.6	5791.5	4717.1	3680.8	3957.9	3387.6
67.5°	6198.7	6144.4	6030.4	6237.3	6638.8	6714.7	6147.0	4647.8	3398.5	3209.2	2393.4
70°	6734.4	6711.2	6785.2	7242.9	7601.0	7579.1	6473.1	4275.7	2649.0	1973.5	1184.0
72.5°	6348.2	6459.5	7006.6	7836.4	8273.9	8095.0	6305.7	3283.2	1514.1	759.2	342.4
73°	6028.2	6170.7	6907.1	7858.8	8326.9	8131.0	6165.0	3013.7	1290.5	599.2	259.5
75°	4193.7	4368.6	5718.3	7319.1	8078.8	7747.0	5138.8	1844.6	597.9	265.6	104.8
77.5°	2036.1	2165.5	3148.7	5288.3	6282.9	6052.8	3199.1	687.3	270.0	166.1	48.2
80°	760.1	845.1	1366.8	2691.5	3630.9	3726.0	1407.1	259.9	179.7	133.7	24.5
82.5°	199.0	221.8	504.1	1200.2	1860.8	1947.6	443.6	131.1	131.5	110.0	14.9
85°	63.6	72.8	157.4	538.7	876.7	769.7	115.7	63.6	95.6	82.0	8.3
87.5°	7.9	10.1	50.0	126.7	193.3	107.4	18.0	18.8	40.8	45.6	4.8
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°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1544.7	1542.6	1543.0	1531.6	1524.1	1509.2	1493.9	1486.9	1479.4	1476.4	1479.4
5°	1552.6	1548.7	1537.3	1502.2	1465.0	1416.8	1371.6	1337.4	1294.5	1282.6	1294.9
7.5°	1564.9	1557.0	1523.7	1452.3	1369.4	1277.4	1173.9	1098.5	1036.7	996.8	1011.3
10°	1582.9	1568.0	1500.9	1379.5	1231.3	1068.3	921.4	807.0	725.9	692.6	691.3
12.5°	1613.1	1585.1	1472.9	1284.8	1062.6	845.1	652.7	528.7	462.9	420.4	419.5
15°	1646.4	1605.2	1437.4	1171.3	866.2	605.4	420.4	326.1	283.6	270.0	268.3
17.5°	1687.2	1628.5	1391.3	1031.4	660.6	401.1	274.4	247.2	245.5	244.2	244.2
20°	1738.5	1656.1	1332.1	871.4	468.6	267.8	233.2	235.0	235.8	234.1	234.5
22.5°	1798.1	1684.1	1261.6	699.6	316.9	224.0	223.1	225.3	226.2	225.3	225.8
25°	1867.4	1716.6	1175.7	519.4	228.8	212.6	214.8	217.9	220.1	220.1	220.1
27.5°	1953.3	1756.0	1072.2	362.5	197.7	200.8	206.9	212.6	215.7	216.5	216.5
30°	2065.1	1805.1	948.2	248.5	179.7	185.0	196.4	207.3	213.0	213.9	214.4
32.5°	2206.2	1860.4	804.4	183.7	164.4	168.3	180.6	199.0	210.0	211.7	211.7
35°	2368.0	1924.4	649.6	160.0	153.4	154.7	164.4	185.4	204.7	209.5	210.0
37.5°	2545.1	1987.5	494.0	149.5	144.2	144.2	151.2	169.2	192.0	206.9	208.7
40°	2710.3	2025.6	346.3	141.1	135.9	135.9	142.0	155.2	176.7	199.0	203.8
42.5°	2862.9	2038.8	241.1	133.3	128.0	129.3	134.6	145.1	161.3	183.7	188.1
45°	3019.8	2036.6	175.8	124.1	120.1	124.1	128.0	135.9	147.7	160.4	161.3
47.5°	3138.2	2018.2	139.4	115.3	112.7	117.9	121.4	126.7	133.3	132.4	132.4
50°	3249.1	1973.5	112.2	103.5	105.2	111.3	113.1	114.8	115.3	107.0	106.1
52.5°	3333.2	1903.8	89.9	90.7	97.8	103.9	102.1	99.5	95.1	85.0	83.3
55°	3361.3	1769.6	70.6	75.0	86.8	94.7	88.1	82.4	74.1	65.8	64.0
57.5°	3310.4	1596.5	57.4	58.3	73.2	79.8	72.3	65.8	56.5	49.5	48.2
60°	3202.6	1404.0	47.3	43.8	56.5	62.2	57.4	50.8	42.5	37.3	36.8
62.5°	2988.7	1198.9	39.0	34.2	43.0	47.8	44.7	39.9	32.9	29.4	28.9
65°	2538.9	959.1	31.6	27.6	33.3	37.3	34.6	31.1	25.9	23.2	22.8
67.5°	1772.3	648.3	25.9	22.8	26.3	29.4	27.2	25.4	20.6	20.2	20.6
70°	854.8	312.5	21.5	18.4	20.6	22.8	21.9	20.6	19.7	22.8	26.3
72.5°	245.0	104.8	17.1	15.3	16.7	18.0	18.8	18.4	21.5	27.6	32.0
73°	188.5	84.6	16.2	14.5	15.8	17.5	18.4	18.0	21.9	28.1	32.0
75°	80.7	40.8	12.3	11.8	13.2	15.3	16.2	16.2	21.9	28.5	30.7
77.5°	36.4	21.9	7.9	9.2	11.4	12.3	13.6	13.6	17.5	21.9	21.9
80°	20.6	11.8	6.1	7.0	8.3	8.3	8.3	7.5	7.9	8.8	9.6
82.5°	13.2	7.9	4.8	5.7	5.3	4.4	3.5	3.5	3.1	3.5	4.4
85°	7.5	4.4	4.4	3.5	2.2	1.8	2.2	1.8	0.4	0.0	0.4
87.5°	4.4	2.6	1.3	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)