

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: P322726

Luminaire Tested: **GAN-SA2C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322726
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-SA2C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 8167 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

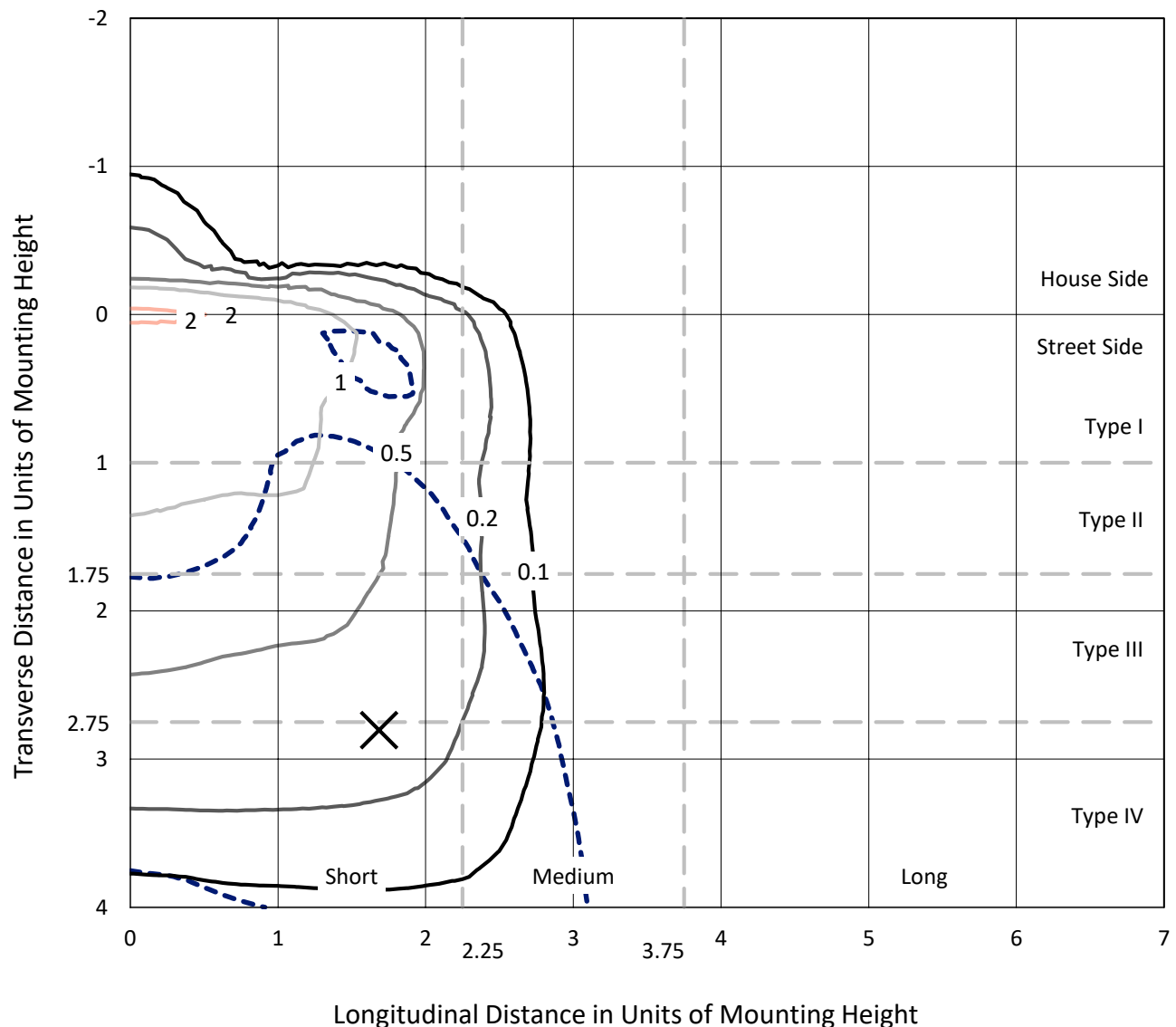
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

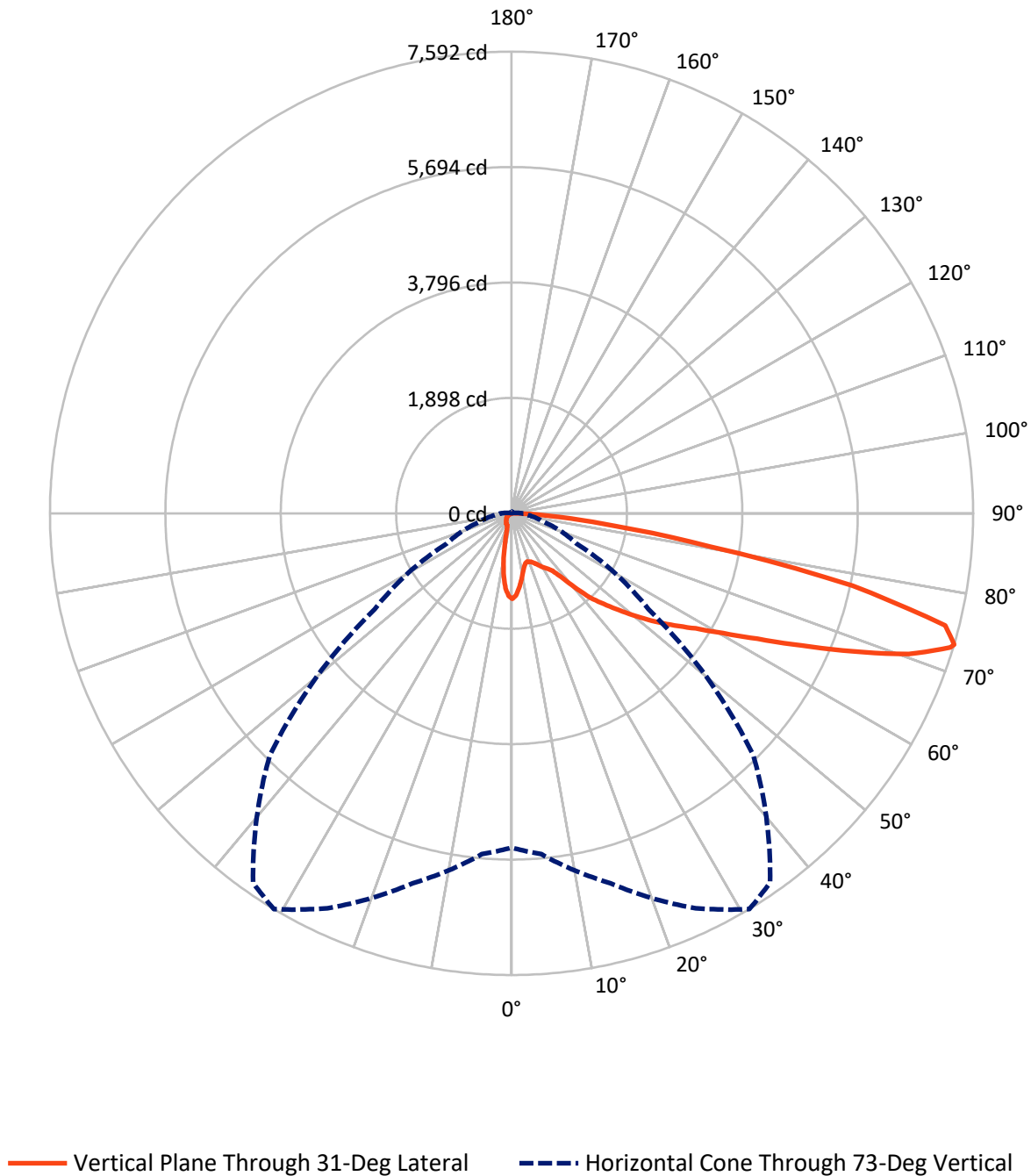
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	744.5	0.0	744.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7422.5	0.0	7422.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	8167.0	0.0	8167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	1.4
10°-20°	253.0	3.1
20°-30°	379.0	4.6
30°-40°	603.0	7.4
40°-50°	1076.8	13.2
50°-60°	1670.9	20.5
60°-70°	2221.3	27.2
70°-80°	1670.9	20.5
80°-90°	175.6	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°	8167.0	100.0
0°-180°	8167.0	100.0

Coefficient of Utilization



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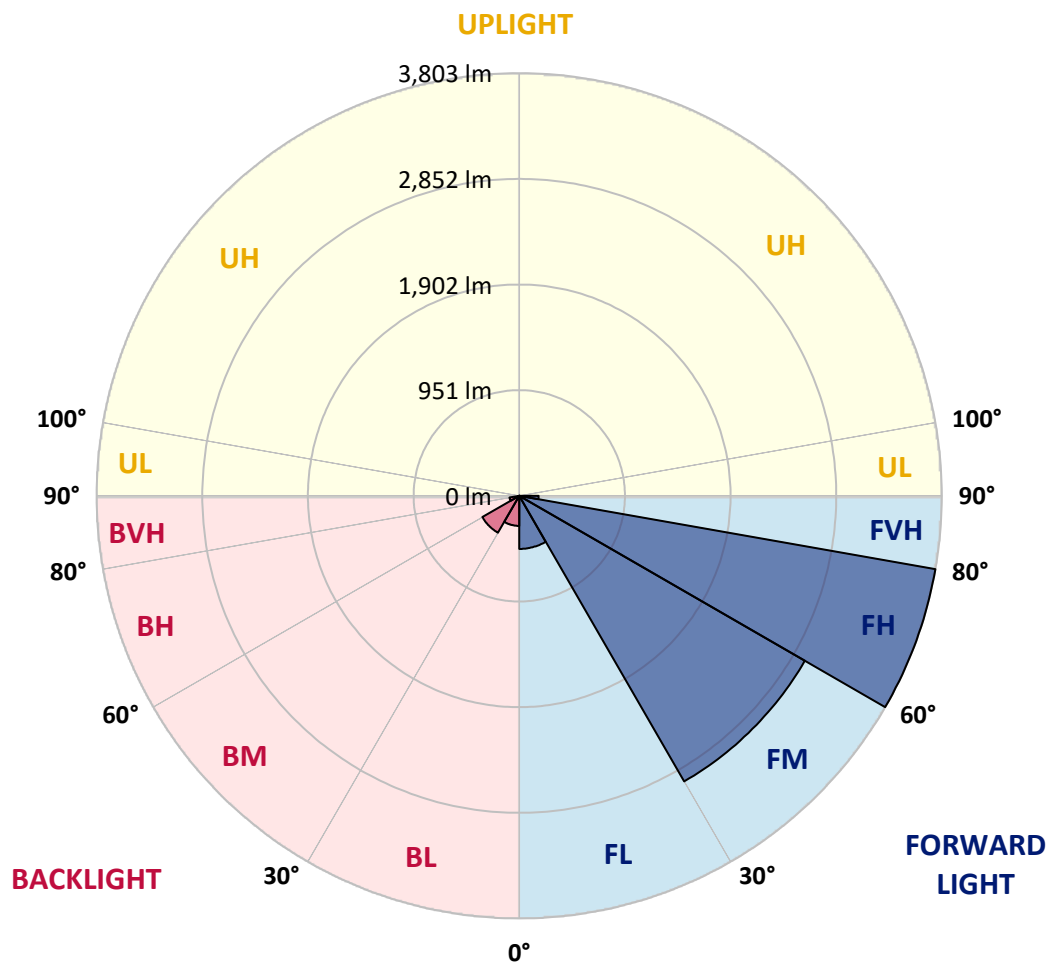
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.8	5.9			
FM	(30°-60°)	2967.6	36.3			
FH	(60°-80°)	3803.1	46.6			G2/5000
FVH	(80°-90°)	174.1	2.1			G2/225
BL	(0°-30°)	270.7	3.3	B1/500		
BM	(30°-60°)	383.2	4.7	B1/1000		
BH	(60°-80°)	89.1	1.1	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1331.6	1337.2	1343.2	1344.4	1354.4	1354.8	1369.2	1380.0	1390.8	1401.2	1404.7
5°	1194.9	1204.1	1214.9	1225.7	1246.9	1255.3	1290.5	1326.4	1360.8	1393.6	1409.5
7.5°	1049.1	1059.5	1074.6	1101.4	1125.0	1141.4	1196.9	1260.9	1324.8	1385.2	1419.9
10°	916.0	925.6	941.6	969.9	1006.3	1028.7	1103.4	1192.1	1286.1	1377.6	1435.5
12.5°	831.3	836.5	845.2	875.6	908.4	933.6	1021.5	1131.4	1254.1	1377.2	1460.7
15°	815.7	817.3	810.1	823.7	849.2	873.6	962.7	1082.2	1229.7	1383.6	1493.5
17.5°	840.5	839.7	815.7	814.1	834.5	854.4	934.0	1048.3	1212.5	1398.4	1535.8
20°	878.0	875.2	833.7	826.1	847.6	866.4	932.0	1035.5	1206.1	1423.1	1587.4
22.5°	928.0	923.2	858.0	850.0	873.2	892.8	956.7	1047.9	1211.7	1456.3	1647.3
25°	989.9	982.7	900.0	891.2	914.8	934.4	1001.1	1083.4	1228.5	1496.7	1723.3
27.5°	1059.9	1049.5	967.1	944.4	971.1	991.5	1060.3	1137.8	1254.9	1539.4	1816.4
30°	1125.8	1112.2	1037.9	1000.3	1033.1	1055.9	1124.2	1202.5	1297.2	1605.4	1943.9
32.5°	1192.1	1177.0	1101.0	1056.3	1085.8	1110.6	1190.1	1291.7	1376.8	1706.1	2113.3
35°	1344.8	1328.8	1235.7	1161.8	1161.4	1175.4	1282.5	1413.5	1481.9	1846.4	2315.5
37.5°	1601.8	1592.6	1503.9	1363.6	1326.0	1310.4	1408.3	1559.0	1632.9	2039.4	2543.7
40°	1883.1	1875.1	1775.6	1648.5	1591.4	1553.0	1589.0	1761.6	1846.4	2275.2	2776.7
42.5°	2200.8	2162.9	1985.4	1947.5	1896.3	1867.1	1834.8	2011.4	2108.5	2531.7	3007.7
45°	2489.4	2425.4	2195.2	2137.7	2126.1	2133.3	2151.3	2347.1	2403.5	2836.7	3237.9
47.5°	2661.2	2610.9	2434.2	2379.1	2375.9	2423.4	2559.3	2726.4	2697.2	3102.4	3440.5
50°	2824.7	2779.1	2632.5	2646.0	2660.8	2725.6	3022.5	3116.4	2965.4	3343.4	3626.4
52.5°	2957.0	2887.4	2810.7	2887.0	2959.8	3064.1	3500.5	3466.5	3155.6	3535.3	3785.4
55°	3033.3	3001.7	3038.9	3115.6	3252.3	3421.8	3951.7	3757.9	3294.7	3710.3	3891.3
57.5°	3313.1	3251.1	3325.0	3391.4	3569.6	3806.6	4338.1	3974.9	3395.0	3818.6	3915.7
60°	3651.5	3601.6	3645.2	3755.5	3996.0	4274.6	4699.4	4151.9	3447.3	3888.1	3852.6
62.5°	4190.3	4124.3	4097.2	4220.6	4539.6	4843.7	4973.6	4274.6	3435.7	3857.4	3636.0
65°	4912.0	4843.7	4722.2	4834.1	5239.7	5454.3	5280.1	4300.6	3355.8	3608.4	3088.5
67.5°	5651.4	5601.8	5497.9	5686.5	6052.6	6121.8	5604.2	4237.4	3098.4	2925.8	2182.1
70°	6139.7	6118.6	6186.1	6603.3	6929.8	6909.8	5901.5	3898.1	2415.1	1799.2	1079.4
72.5°	5787.6	5889.2	6387.9	7144.4	7543.3	7380.2	5748.9	2993.3	1380.4	692.2	312.1
73°	5495.9	5625.8	6297.2	7164.8	7591.6	7413.0	5620.6	2747.6	1176.6	546.3	236.6
75°	3823.4	3982.9	5213.4	6672.9	7365.4	7062.9	4685.0	1681.7	545.1	242.2	95.5
77.5°	1856.3	1974.2	2870.6	4821.3	5728.1	5518.3	2916.6	626.6	246.2	151.5	44.0
80°	693.0	770.5	1246.1	2453.8	3310.3	3397.0	1282.9	237.0	163.9	121.9	22.4
82.5°	181.4	202.2	459.6	1094.2	1696.5	1775.6	404.4	119.5	119.9	100.3	13.6
85°	57.9	66.3	143.5	491.2	799.3	701.8	105.5	57.9	87.1	74.7	7.6
87.5°	7.2	9.2	45.6	115.5	176.2	97.9	16.4	17.2	37.2	41.6	4.4
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°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1408.3	1406.3	1406.7	1396.4	1389.6	1376.0	1362.0	1355.6	1348.8	1346.0	1348.8
5°	1415.5	1411.9	1401.6	1369.6	1335.6	1291.7	1250.5	1219.3	1180.1	1169.4	1180.5
7.5°	1426.7	1419.5	1389.2	1324.0	1248.5	1164.6	1070.2	1001.5	945.2	908.8	922.0
10°	1443.1	1429.5	1368.4	1257.7	1122.6	973.9	840.1	735.7	661.8	631.4	630.2
12.5°	1470.7	1445.1	1342.8	1171.4	968.7	770.5	595.1	482.0	422.0	383.3	382.5
15°	1501.1	1463.5	1310.4	1067.8	789.7	551.9	383.3	297.3	258.6	246.2	244.6
17.5°	1538.2	1484.7	1268.5	940.4	602.3	365.7	250.2	225.4	223.8	222.6	222.6
20°	1585.0	1509.9	1214.5	794.5	427.2	244.2	212.6	214.2	215.0	213.4	213.8
22.5°	1639.3	1535.4	1150.2	637.8	288.9	204.2	203.4	205.4	206.2	205.4	205.8
25°	1702.5	1565.0	1071.8	473.6	208.6	193.8	195.8	198.6	200.6	200.6	200.6
27.5°	1780.8	1601.0	977.5	330.5	180.2	183.0	188.6	193.8	196.6	197.4	197.4
30°	1882.7	1645.7	864.4	226.6	163.9	168.6	179.0	189.0	194.2	195.0	195.4
32.5°	2011.4	1696.1	733.3	167.5	149.9	153.5	164.7	181.4	191.4	193.0	193.0
35°	2158.9	1754.4	592.3	145.9	139.9	141.1	149.9	169.0	186.6	191.0	191.4
37.5°	2320.3	1812.0	450.4	136.3	131.5	131.5	137.9	154.3	175.0	188.6	190.2
40°	2471.0	1846.8	315.7	128.7	123.9	123.9	129.5	141.5	161.1	181.4	185.8
42.5°	2610.1	1858.7	219.8	121.5	116.7	117.9	122.7	132.3	147.1	167.5	171.4
45°	2753.1	1856.7	160.3	113.1	109.5	113.1	116.7	123.9	134.7	146.3	147.1
47.5°	2861.1	1840.0	127.1	105.1	102.7	107.5	110.7	115.5	121.5	120.7	120.7
50°	2962.2	1799.2	102.3	94.3	95.9	101.5	103.1	104.7	105.1	97.5	96.7
52.5°	3038.9	1735.7	81.9	82.7	89.1	94.7	93.1	90.7	86.7	77.5	75.9
55°	3064.5	1613.4	64.3	68.3	79.1	86.3	80.3	75.1	67.5	59.9	58.3
57.5°	3018.1	1455.5	52.4	53.2	66.7	72.7	65.9	59.9	51.6	45.2	44.0
60°	2919.8	1280.1	43.2	40.0	51.6	56.7	52.4	46.4	38.8	34.0	33.6
62.5°	2724.8	1093.0	35.6	31.2	39.2	43.6	40.8	36.4	30.0	26.8	26.4
65°	2314.7	874.4	28.8	25.2	30.4	34.0	31.6	28.4	23.6	21.2	20.8
67.5°	1615.8	591.1	23.6	20.8	24.0	26.8	24.8	23.2	18.8	18.4	18.8
70°	779.3	284.9	19.6	16.8	18.8	20.8	20.0	18.8	18.0	20.8	24.0
72.5°	223.4	95.5	15.6	14.0	15.2	16.4	17.2	16.8	19.6	25.2	29.2
73°	171.8	77.1	14.8	13.2	14.4	16.0	16.8	16.4	20.0	25.6	29.2
75°	73.5	37.2	11.2	10.8	12.0	14.0	14.8	14.8	20.0	26.0	28.0
77.5°	33.2	20.0	7.2	8.4	10.4	11.2	12.4	12.4	16.0	20.0	20.0
80°	18.8	10.8	5.6	6.4	7.6	7.6	7.6	6.8	7.2	8.0	8.8
82.5°	12.0	7.2	4.4	5.2	4.8	4.0	3.2	3.2	2.8	3.2	4.0
85°	6.8	4.0	4.0	3.2	2.0	1.6	2.0	1.6	0.4	0.0	0.4
87.5°	4.0	2.4	1.2	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)