

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: P268244

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12192.9 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

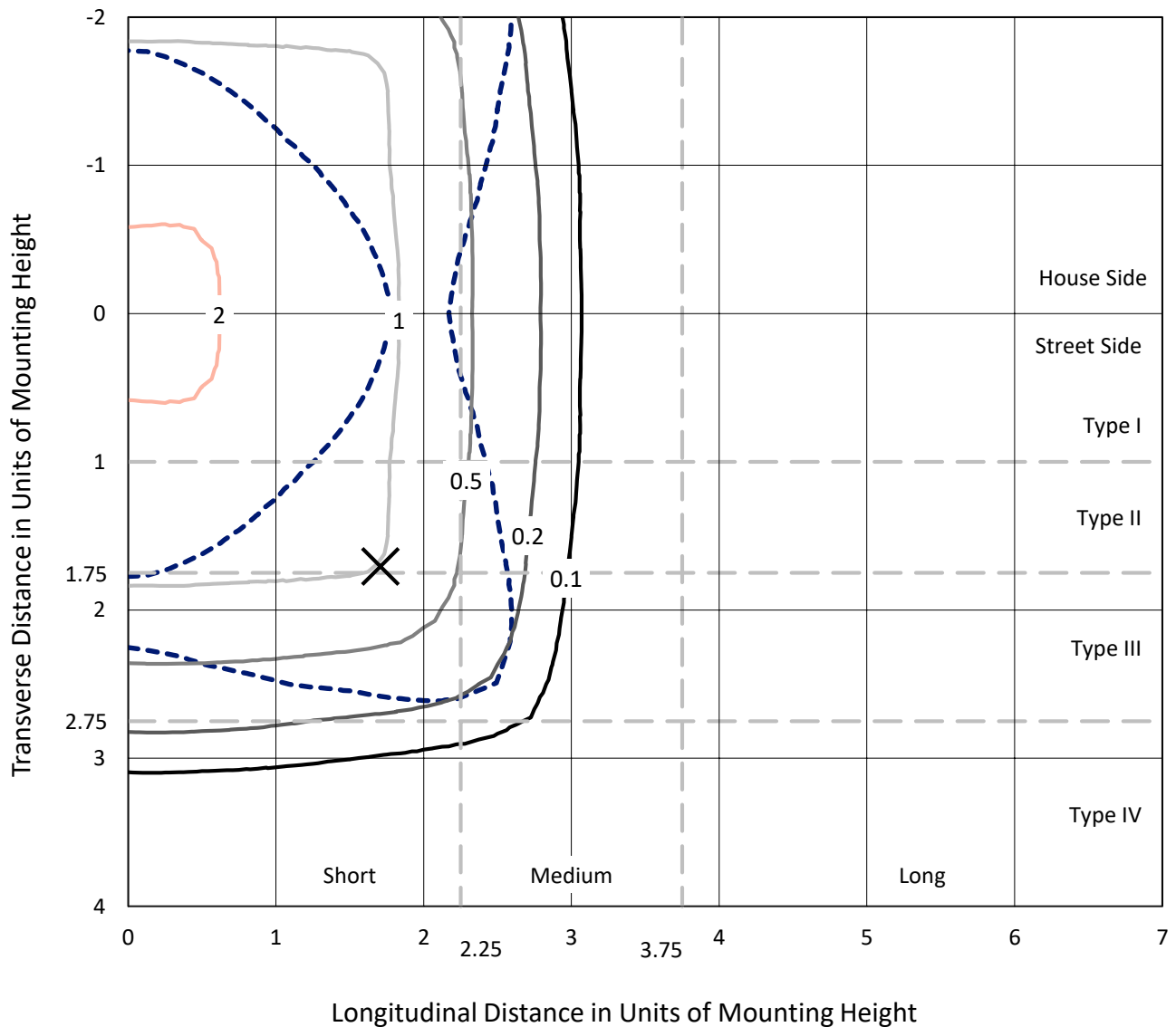


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Iso-Footcandle Lines of Horizontal Illumination

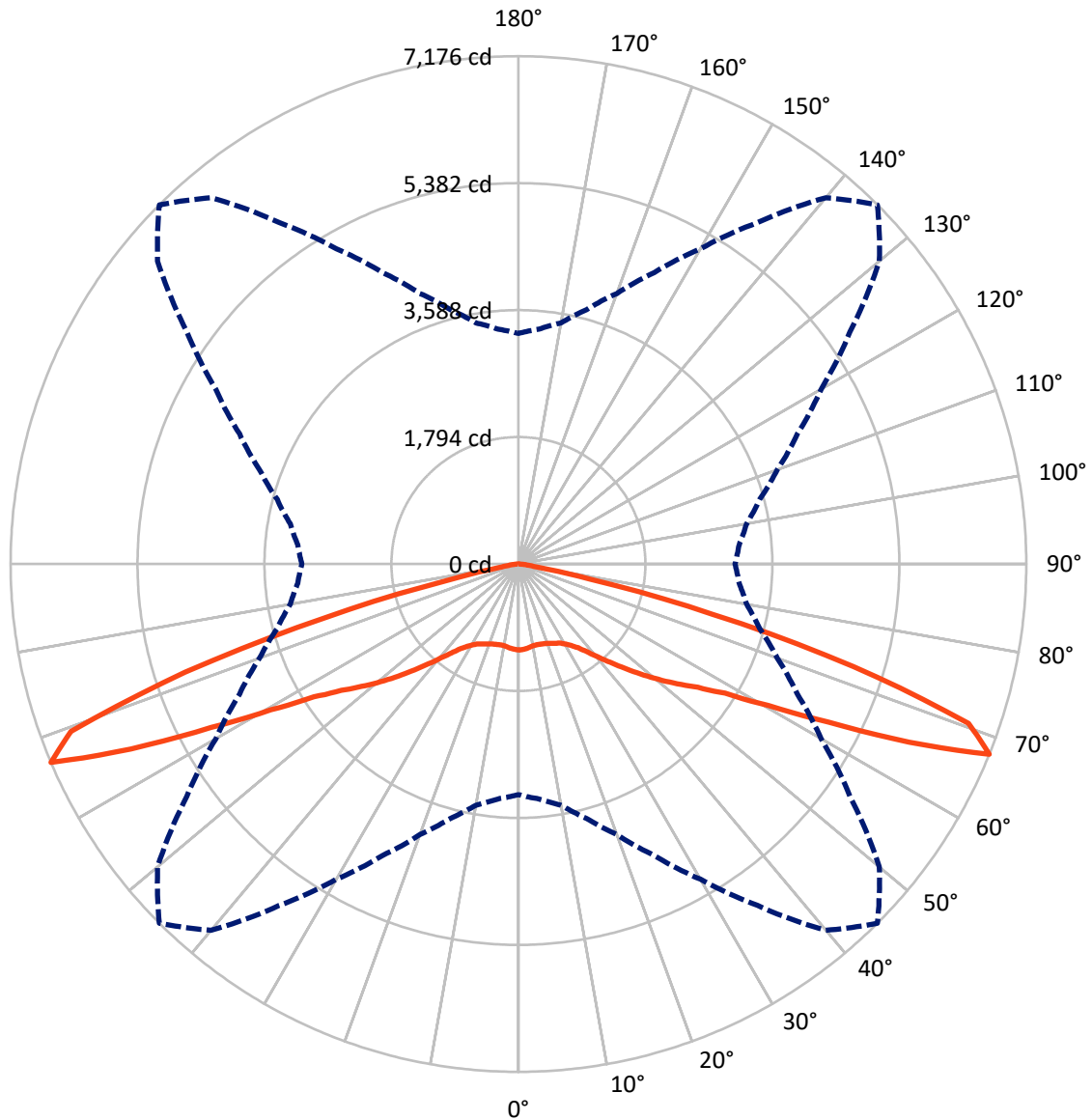
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6096.5	0.0	6096.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6096.5	0.0	6096.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12192.9	0.0	12192.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	0.9
10°-20°	330.0	2.7
20°-30°	561.0	4.6
30°-40°	917.1	7.5
40°-50°	1637.1	13.4
50°-60°	2760.3	22.6
60°-70°	4283.6	35.1
70°-80°	1505.1	12.3
80°-90°	85.1	0.7
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°	12192.9	100.0
0°-180°	12192.9	100.0



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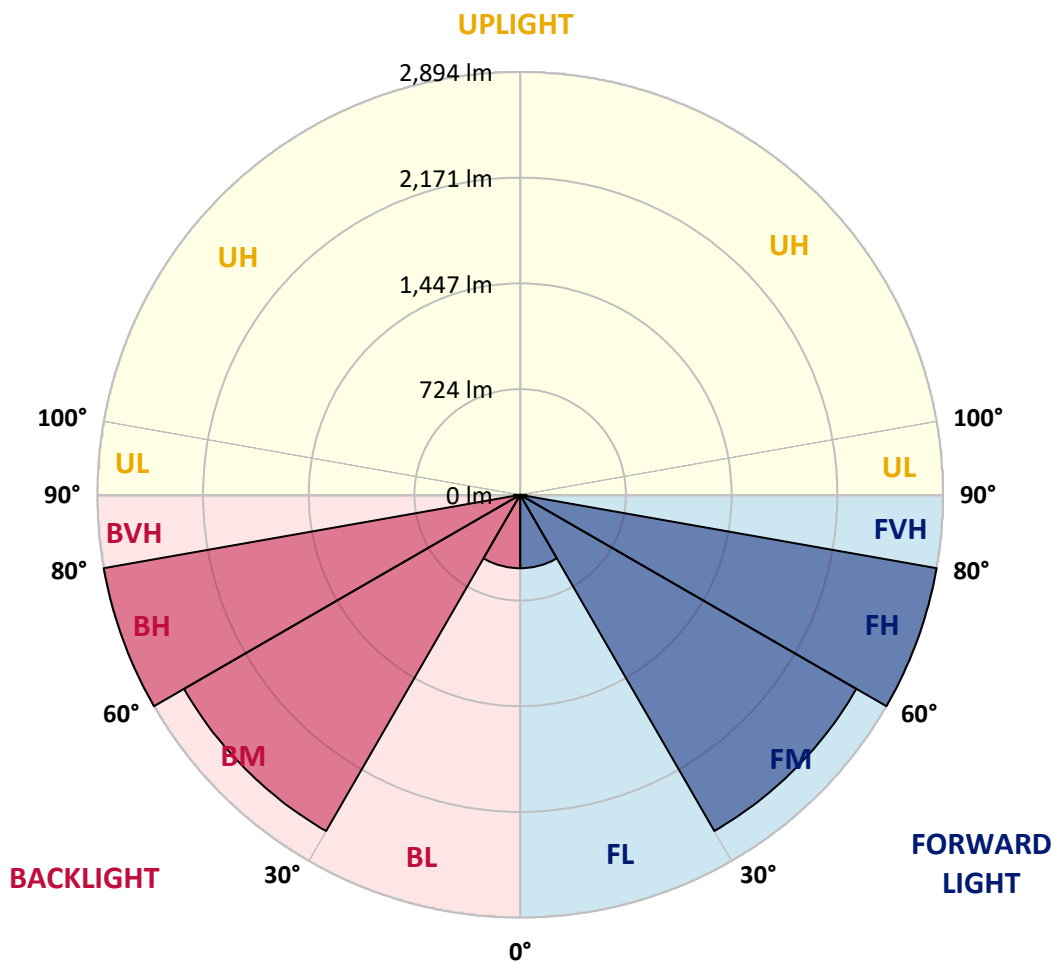
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.4	4.1			
FM	(30°-60°)	2657.3	21.8			
FH	(60°-80°)	2894.3	23.7			G2/5000
FVH	(80°-90°)	42.5	0.3			G1/100
BL	(0°-30°)	502.4	4.1	B2/1000		
BM	(30°-60°)	2657.3	21.8	B3/5000		
BH	(60°-80°)	2894.3	23.7	B4/5000		G2/5000
BVH	(80°-90°)	42.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0
2.5°	1210.6	1211.8	1211.8	1211.8	1211.2	1211.2	1210.0	1211.2	1210.6	1208.8	1209.5
5°	1200.6	1201.7	1201.7	1201.0	1202.7	1202.2	1200.6	1201.7	1201.0	1200.0	1200.6
7.5°	1185.9	1187.6	1187.6	1187.0	1188.7	1188.2	1187.0	1187.6	1187.6	1185.9	1185.9
10°	1169.7	1170.9	1170.9	1170.2	1173.0	1173.0	1172.5	1174.2	1174.8	1173.0	1171.8
12.5°	1154.5	1156.2	1156.2	1158.5	1161.2	1162.3	1165.2	1167.3	1169.7	1169.1	1166.9
15°	1145.6	1146.6	1148.9	1151.6	1156.2	1160.2	1164.7	1169.7	1174.2	1175.3	1171.8
17.5°	1139.9	1141.7	1145.0	1148.9	1155.1	1161.8	1168.5	1175.3	1181.5	1183.6	1179.7
20°	1138.2	1139.4	1142.7	1149.6	1157.8	1167.9	1177.5	1185.4	1193.8	1196.6	1193.8
22.5°	1141.7	1143.8	1147.8	1155.6	1166.9	1179.7	1191.0	1201.7	1212.3	1217.4	1213.4
25°	1156.7	1159.1	1164.1	1174.2	1186.5	1200.0	1212.8	1225.2	1234.7	1239.8	1237.0
27.5°	1184.9	1187.6	1193.8	1203.9	1217.4	1231.8	1245.9	1256.0	1263.8	1265.5	1262.2
30°	1226.8	1233.1	1240.3	1251.5	1267.1	1279.5	1293.6	1302.5	1312.1	1312.1	1309.3
32.5°	1292.4	1298.6	1306.5	1317.2	1329.4	1343.0	1355.3	1363.1	1373.1	1373.8	1367.0
35°	1390.5	1393.5	1400.1	1406.8	1418.1	1429.8	1440.5	1445.6	1453.9	1454.4	1448.3
37.5°	1520.1	1520.7	1525.1	1527.4	1537.4	1550.4	1560.4	1563.9	1571.8	1570.5	1564.4
40°	1670.9	1673.7	1675.3	1678.8	1689.4	1701.7	1712.3	1714.1	1722.5	1720.9	1713.0
42.5°	1845.3	1846.5	1856.0	1861.0	1871.1	1877.3	1890.8	1892.4	1902.5	1897.9	1889.0
45°	2040.9	2051.1	2060.2	2070.1	2080.8	2088.1	2098.8	2096.6	2103.2	2096.6	2091.4
47.5°	2246.8	2254.0	2274.2	2290.0	2307.3	2313.6	2328.6	2321.8	2328.6	2319.2	2317.4
50°	2473.4	2486.1	2503.5	2521.5	2540.0	2550.2	2569.8	2561.3	2570.3	2561.3	2556.3
52.5°	2696.5	2699.9	2738.0	2764.4	2790.1	2802.0	2813.8	2809.8	2810.3	2809.8	2804.7
55°	2908.4	2916.3	2954.4	2990.3	3035.2	3068.3	3088.5	3086.1	3081.1	3076.1	3067.7
57.5°	3147.3	3155.1	3199.0	3243.2	3294.3	3341.3	3382.3	3424.2	3440.6	3445.1	3426.6
60°	3470.3	3469.8	3528.1	3581.9	3654.8	3724.8	3814.6	3906.0	4010.8	4059.6	3995.1
62.5°	3798.8	3812.3	3896.5	3991.8	4142.1	4288.4	4453.7	4616.4	4782.3	4917.5	4774.0
65°	3759.6	3811.1	3936.3	4152.1	4429.7	4759.4	5115.9	5493.3	5834.3	6068.7	5805.7
67.5°	3258.3	3331.9	3459.1	3721.5	4068.6	4544.0	5142.9	5889.3	6756.6	7176.1	6656.4
70°	2361.7	2444.7	2578.1	2834.4	3178.2	3630.1	4280.6	5176.6	6324.8	6747.7	6175.2
72.5°	1175.3	1220.1	1302.5	1465.8	1726.0	2092.6	2682.5	3543.8	4559.7	4947.8	4424.6
75°	399.2	420.0	434.1	487.3	569.6	713.9	1007.1	1549.2	2363.4	2833.3	2329.8
77.5°	230.4	231.0	240.6	250.1	264.1	279.8	319.1	418.9	724.5	1028.9	749.6
80°	149.2	148.6	156.5	163.8	173.3	181.1	183.3	194.0	223.7	265.2	237.2
82.5°	77.3	87.0	104.4	113.8	131.8	135.1	130.7	126.8	133.9	139.1	142.4
85°	42.6	37.0	55.5	71.8	79.6	80.8	80.8	76.3	79.1	77.3	84.1
87.5°	19.7	18.0	21.9	35.4	37.5	32.0	33.6	29.7	21.3	20.8	23.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0	1215.0
2.5°	1209.5	1210.0	1210.0	1211.8	1212.3	1213.4	1214.5	1215.0
5°	1200.0	1201.7	1200.6	1202.2	1202.2	1203.3	1203.3	1203.9
7.5°	1185.9	1187.6	1187.6	1187.6	1187.0	1188.7	1188.7	1188.7
10°	1171.3	1172.5	1171.8	1170.9	1169.7	1171.3	1170.9	1170.2
12.5°	1166.9	1164.1	1161.8	1160.7	1158.5	1159.1	1157.3	1157.3
15°	1169.7	1164.7	1160.7	1159.1	1156.7	1155.6	1154.5	1155.1
17.5°	1177.0	1170.9	1165.7	1162.9	1160.2	1158.5	1156.2	1156.7
20°	1189.8	1182.6	1175.3	1169.7	1164.7	1161.8	1160.2	1159.5
22.5°	1208.8	1198.2	1187.6	1179.1	1172.5	1168.5	1166.9	1165.7
25°	1230.8	1219.0	1206.7	1197.1	1190.4	1185.4	1182.0	1182.0
27.5°	1258.3	1248.7	1237.5	1226.2	1220.1	1215.0	1212.8	1211.8
30°	1304.2	1295.3	1286.4	1275.7	1267.8	1262.7	1258.9	1255.4
32.5°	1363.1	1355.8	1348.5	1340.7	1333.4	1326.6	1320.5	1317.8
35°	1446.1	1440.5	1435.4	1426.5	1423.6	1419.7	1416.4	1413.6
37.5°	1560.4	1558.2	1558.2	1548.7	1546.4	1544.7	1541.4	1542.0
40°	1710.7	1713.0	1710.3	1706.8	1705.2	1700.6	1700.6	1704.5
42.5°	1888.4	1890.2	1896.3	1890.8	1897.0	1891.3	1888.0	1890.8
45°	2094.8	2101.0	2113.4	2107.8	2111.6	2102.2	2090.4	2091.0
47.5°	2326.4	2332.0	2337.1	2333.2	2333.6	2317.9	2302.4	2298.5
50°	2566.9	2569.2	2571.9	2566.4	2567.5	2550.2	2532.2	2532.9
52.5°	2804.7	2815.4	2826.5	2811.4	2808.1	2788.5	2763.2	2753.1
55°	3076.7	3091.7	3078.9	3052.6	3026.2	2999.8	2966.7	2961.2
57.5°	3412.0	3386.3	3345.7	3295.9	3259.5	3222.5	3188.9	3174.8
60°	3878.5	3781.4	3708.7	3634.6	3588.0	3542.6	3498.3	3491.6
62.5°	4537.9	4370.3	4225.0	4071.9	3947.0	3849.3	3771.4	3749.5
65°	5364.4	4967.9	4624.3	4303.5	4024.9	3814.6	3682.2	3623.9
67.5°	5719.9	4937.2	4347.8	3892.5	3528.1	3273.5	3130.6	3059.3
70°	5026.2	4094.4	3453.4	2997.6	2665.7	2394.3	2264.7	2188.5
72.5°	3457.9	2604.5	2059.5	1681.1	1415.8	1188.7	1098.9	1092.2
75°	1552.6	1028.4	708.8	546.1	459.8	399.7	381.3	367.2
77.5°	434.6	321.4	286.5	268.1	250.1	229.3	221.5	223.1
80°	211.5	199.7	191.8	180.0	163.8	146.3	138.5	141.8
82.5°	140.1	138.5	143.5	135.1	111.6	94.7	79.6	72.9
85°	85.2	86.3	88.0	88.7	75.2	52.7	35.9	40.3
87.5°	33.6	38.6	42.0	43.7	41.0	25.2	20.2	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)