

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: P200251

Luminaire Tested: **GAP-AF-01-LED-U-AFL-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-AFL-7050-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4297 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

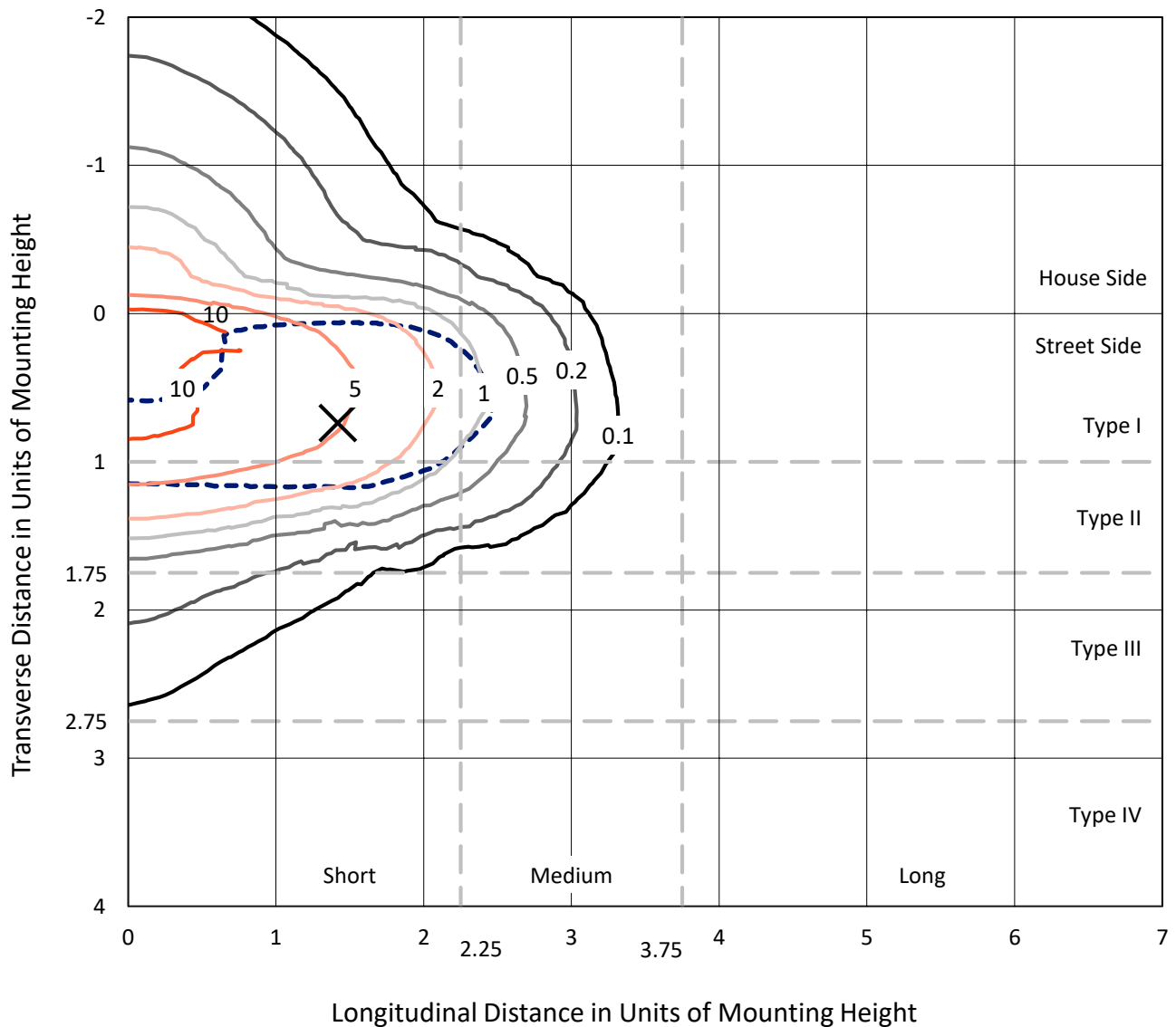
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

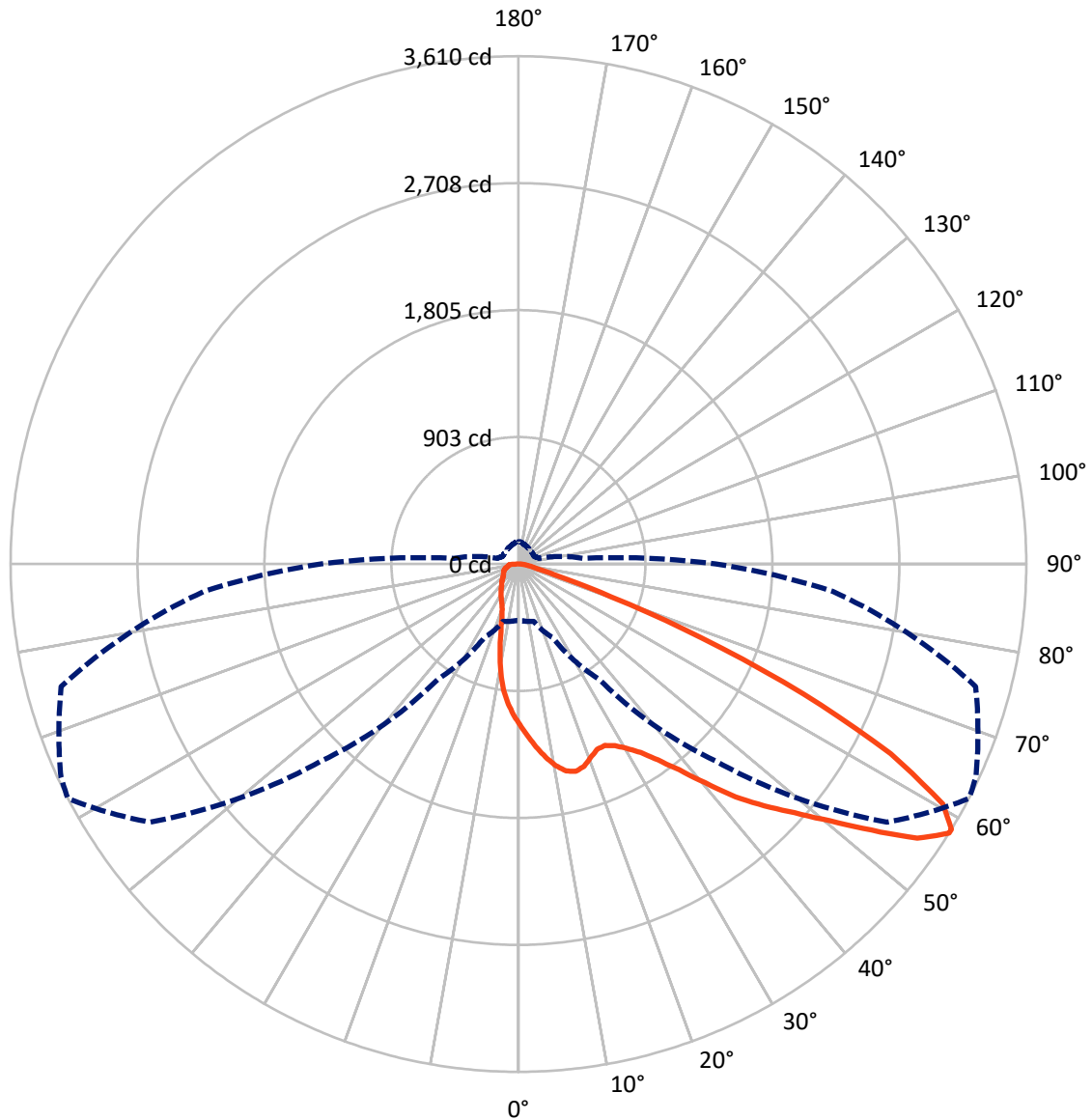
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	655.3	0.0	655.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3641.7	0.0	3641.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	4297.0	0.0	4297.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	2.4
10°-20°	260.9	6.1
20°-30°	421.8	9.8
30°-40°	669.6	15.6
40°-50°	979.8	22.8
50°-60°	1024.8	23.8
60°-70°	605.4	14.1
70°-80°	170.6	4.0
80°-90°	61.9	1.4
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°	4297.0	100.0
0°-180°	4297.0	100.0



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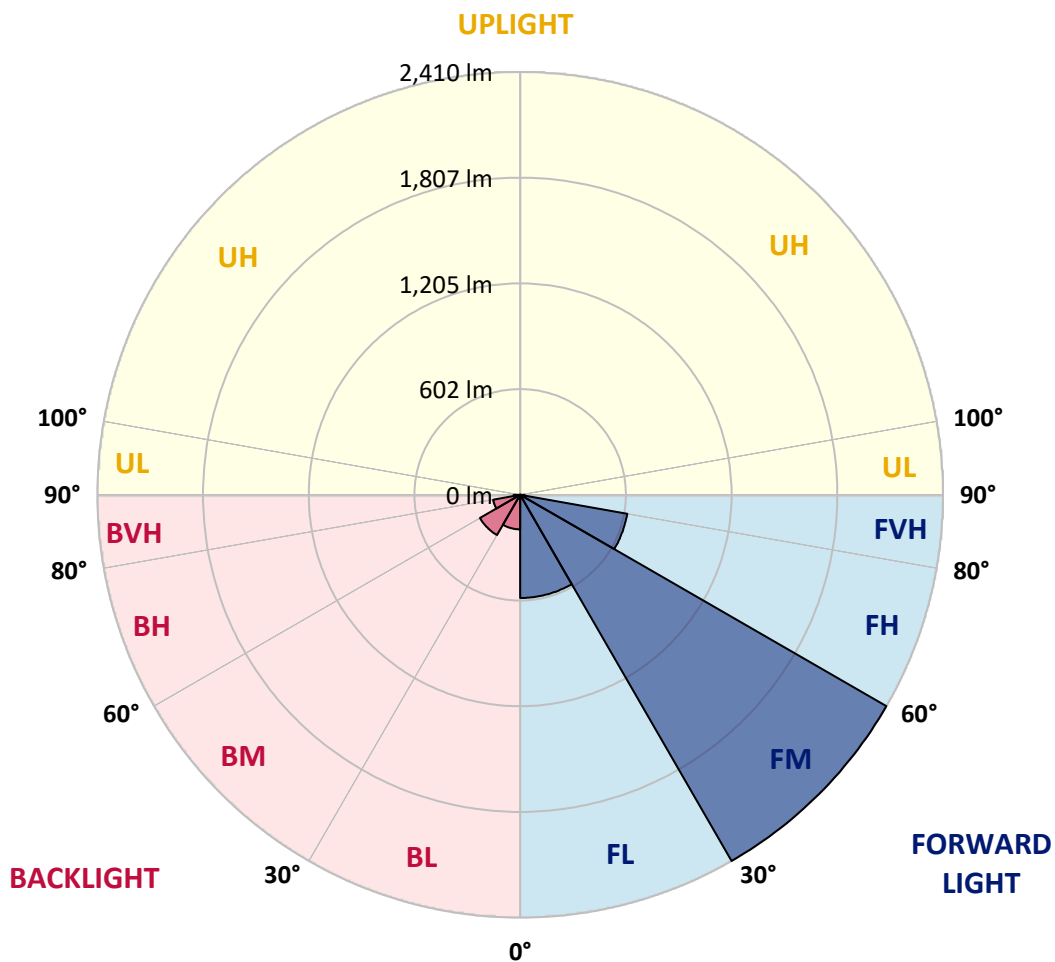
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	587.9	13.7			
FM	(30°-60°)	2409.7	56.1			
FH	(60°-80°)	619.6	14.4			G0/660
FVH	(80°-90°)	24.4	0.6			G1/100
BL	(0°-30°)	197.0	4.6	B1/500		
BM	(30°-60°)	264.5	6.2	B1/1000		
BH	(60°-80°)	156.4	3.6	B1/500		G1/500
BVH	(80°-90°)	37.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4
2.5°	1304.3	1293.8	1287.1	1281.2	1273.5	1257.2	1235.1	1221.1	1214.1	1190.0	1161.4
5°	1432.2	1422.9	1416.0	1408.1	1394.3	1368.6	1333.0	1304.7	1290.7	1242.6	1185.5
7.5°	1402.2	1406.1	1418.0	1438.9	1456.7	1453.2	1421.5	1385.4	1367.0	1300.0	1213.4
10°	1221.7	1228.4	1249.1	1297.8	1376.7	1457.7	1482.4	1457.5	1438.9	1356.9	1242.2
12.5°	1185.5	1185.3	1186.9	1199.9	1246.8	1360.7	1484.4	1509.5	1498.3	1411.1	1271.5
15°	1200.3	1200.7	1199.5	1204.9	1219.5	1264.6	1422.5	1529.5	1537.4	1465.8	1301.9
17.5°	1239.1	1238.1	1233.5	1233.5	1238.7	1256.3	1349.6	1510.9	1547.3	1514.1	1328.6
20°	1304.3	1299.6	1287.3	1276.0	1270.3	1279.8	1319.7	1468.0	1530.1	1556.4	1350.6
22.5°	1383.2	1379.6	1359.5	1335.3	1315.6	1315.4	1335.1	1430.6	1500.4	1596.3	1369.2
25°	1485.2	1479.3	1449.6	1410.7	1376.3	1363.2	1368.6	1428.7	1484.2	1639.6	1385.8
27.5°	1605.0	1594.3	1559.0	1503.0	1452.4	1425.9	1418.0	1461.7	1498.9	1693.2	1408.9
30°	1750.3	1737.9	1692.8	1619.7	1548.3	1504.8	1488.0	1520.2	1547.9	1758.6	1445.9
32.5°	1915.6	1897.8	1845.6	1765.0	1671.1	1604.8	1577.5	1597.5	1619.5	1837.3	1492.3
35°	2144.0	2122.8	2047.3	1936.2	1830.2	1738.9	1695.2	1709.8	1731.2	1954.6	1559.2
37.5°	2299.8	2290.3	2240.1	2135.7	2020.4	1915.4	1847.8	1856.3	1868.4	2101.3	1645.0
40°	2298.4	2302.2	2303.3	2304.3	2225.8	2125.2	2052.6	2043.7	2041.2	2262.4	1742.6
42.5°	2183.3	2199.1	2250.0	2353.4	2401.2	2355.1	2288.5	2262.8	2250.0	2452.2	1846.0
45°	2007.0	2015.5	2111.0	2313.0	2491.0	2582.7	2532.3	2451.4	2428.3	2626.6	1931.8
47.5°	1916.2	1925.5	1985.6	2205.7	2490.0	2766.6	2795.8	2641.6	2600.3	2778.4	2005.8
50°	1699.9	1719.3	1795.0	2019.2	2399.2	2851.2	3071.1	2868.2	2782.8	2926.1	2080.1
52.5°	1302.7	1332.6	1417.4	1712.4	2168.7	2809.3	3291.5	3143.0	3022.4	3079.0	2143.8
55°	821.7	844.0	915.2	1209.4	1734.9	2591.4	3375.1	3440.2	3333.0	3223.9	2199.1
57.5°	446.8	456.7	483.4	667.7	1128.5	2109.6	3253.3	3609.4	3564.9	3346.9	2240.7
58°	399.8	406.5	423.1	578.7	1000.8	1977.9	3199.2	3610.0	3587.7	3364.9	2244.0
60°	296.6	293.2	278.4	330.2	557.0	1366.4	2872.6	3465.5	3530.9	3387.0	2228.2
62.5°	260.6	252.3	222.2	218.7	270.9	629.5	2198.0	2968.6	3122.9	3261.1	2132.3
65°	244.8	235.9	197.1	184.5	195.5	266.3	1294.8	2226.4	2420.0	2879.5	1887.0
67.5°	233.1	221.6	181.1	163.9	164.7	176.0	519.0	1402.2	1620.2	2186.3	1467.8
70°	221.8	209.2	167.5	147.7	143.1	139.2	206.4	701.9	899.6	1381.0	935.8
72.5°	209.6	197.3	155.6	135.0	125.9	113.1	134.8	287.1	401.0	653.4	424.5
75°	192.0	180.9	143.7	123.6	110.7	93.7	101.8	149.9	179.9	260.2	204.6
77.5°	170.4	161.3	130.3	114.3	98.1	76.1	78.3	104.0	115.3	148.9	121.6
80°	122.4	125.7	115.9	102.8	87.4	61.7	60.1	75.9	81.9	95.7	79.1
82.5°	86.0	87.8	95.9	84.0	72.2	48.6	44.3	53.4	57.1	62.9	42.7
85°	59.3	57.3	65.8	58.5	52.2	32.4	30.4	36.2	38.4	39.1	22.1
87.5°	35.6	35.6	38.0	31.4	28.1	16.8	16.4	20.6	22.1	21.0	12.1
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°	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4	1141.4
2.5°	1144.4	1130.1	1099.5	1075.0	1044.1	1011.9	993.9	974.7	961.5	952.0	967.2
5°	1153.1	1123.8	1060.7	1000.8	934.6	865.8	813.6	765.1	731.3	710.2	730.0
7.5°	1166.9	1121.8	1021.2	918.8	800.1	685.5	583.1	519.0	481.6	463.2	474.7
10°	1182.7	1118.5	974.9	807.7	637.8	493.5	417.0	391.1	382.6	379.2	380.8
12.5°	1195.8	1111.7	918.0	673.4	478.9	389.7	367.7	367.0	368.9	369.3	369.9
15°	1205.1	1101.5	833.6	533.4	383.0	355.1	353.9	357.5	361.0	362.4	363.2
17.5°	1211.4	1080.7	738.3	421.7	343.2	338.3	341.1	345.8	349.4	350.5	351.3
20°	1210.8	1050.2	624.8	351.7	321.5	321.5	326.4	330.0	330.2	329.0	329.6
22.5°	1204.5	1008.3	514.8	314.4	302.3	305.7	310.6	307.2	293.0	283.7	284.3
25°	1194.0	958.3	420.5	290.8	284.5	290.6	289.1	263.2	243.0	233.9	233.9
27.5°	1184.7	899.2	348.0	270.1	266.7	274.2	249.1	225.6	217.1	212.9	211.4
30°	1178.0	835.5	299.7	250.3	249.9	244.4	216.1	209.6	208.2	204.8	203.6
32.5°	1179.7	770.9	268.7	232.9	234.3	209.2	200.3	201.7	200.5	196.9	195.3
35°	1193.0	709.6	248.5	217.1	212.9	189.0	191.0	193.6	193.2	188.2	186.6
37.5°	1216.9	651.5	235.1	204.0	185.7	178.9	182.1	186.2	185.1	181.7	180.5
40°	1242.0	596.9	224.2	193.6	169.8	172.0	174.8	177.0	178.1	179.1	178.3
42.5°	1266.5	539.8	210.8	183.1	163.1	165.5	166.7	169.0	174.4	178.3	178.1
45°	1281.0	486.2	197.1	168.1	157.8	159.2	158.4	162.9	169.6	175.8	176.0
47.5°	1297.2	444.5	186.2	154.4	152.8	153.8	151.4	155.8	161.9	169.6	170.4
50°	1316.8	419.7	177.5	143.5	145.9	145.9	145.3	149.3	157.8	166.7	168.3
52.5°	1339.1	414.8	170.2	135.6	139.0	138.8	139.4	145.5	154.8	163.5	164.9
55°	1366.2	428.0	162.3	129.7	132.3	133.1	135.2	142.0	149.9	159.9	160.5
57.5°	1397.8	454.7	156.0	125.0	126.3	128.9	132.1	138.4	146.9	157.8	158.4
58°	1403.0	460.3	155.0	124.6	125.0	128.1	131.7	137.8	146.3	158.2	158.8
60°	1403.2	479.1	152.8	122.8	120.4	125.5	129.5	135.6	145.3	159.6	161.1
62.5°	1353.5	478.9	151.1	120.2	115.5	121.8	126.5	133.5	144.3	163.1	165.9
65°	1191.8	435.2	143.5	116.1	111.7	118.6	123.8	132.1	147.1	178.1	179.9
67.5°	932.2	356.7	129.1	110.5	106.6	115.3	122.2	131.9	150.1	181.5	182.7
70°	616.3	266.9	113.3	104.0	101.4	111.5	123.0	138.8	146.7	174.2	171.0
72.5°	319.9	187.4	100.6	95.9	95.3	108.1	134.8	138.0	143.3	163.9	159.9
75°	167.9	130.1	89.4	87.0	88.0	107.2	159.0	134.4	138.8	156.8	164.5
77.5°	102.8	105.0	79.9	78.9	80.9	104.8	158.8	129.7	132.3	144.3	152.8
80°	68.8	85.2	72.6	72.8	74.3	95.9	142.7	122.4	124.4	136.4	145.1
82.5°	43.5	50.4	66.0	69.4	67.6	79.1	121.2	111.5	114.3	156.0	164.9
85°	22.1	31.6	57.3	66.8	60.9	55.4	98.3	97.7	99.1	112.5	117.6
87.5°	10.1	17.4	44.7	58.3	45.9	34.6	71.4	72.4	78.1	79.9	79.9
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)