

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: P268269

Luminaire Tested: **GAN-AF-02-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7080.4 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

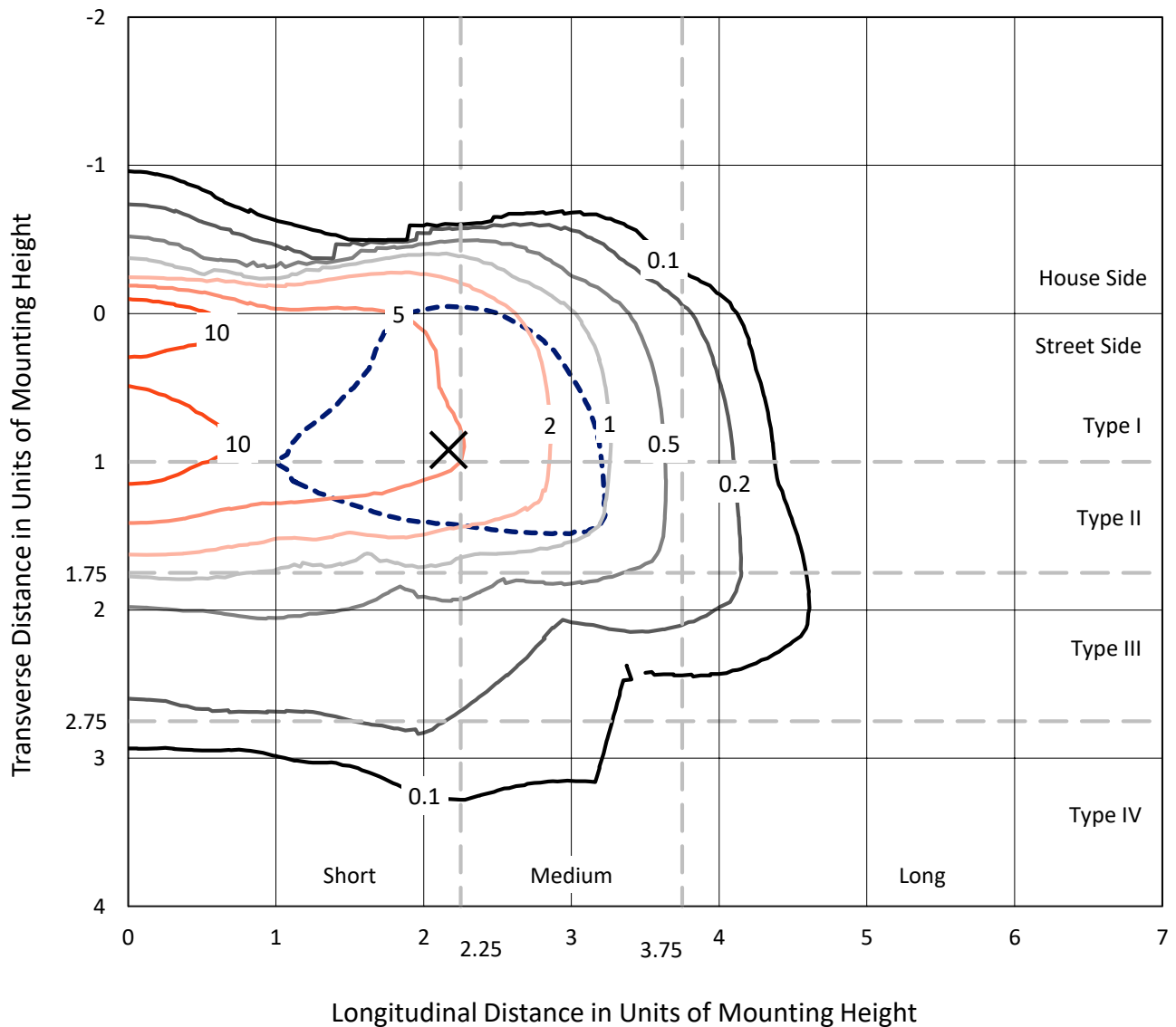


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

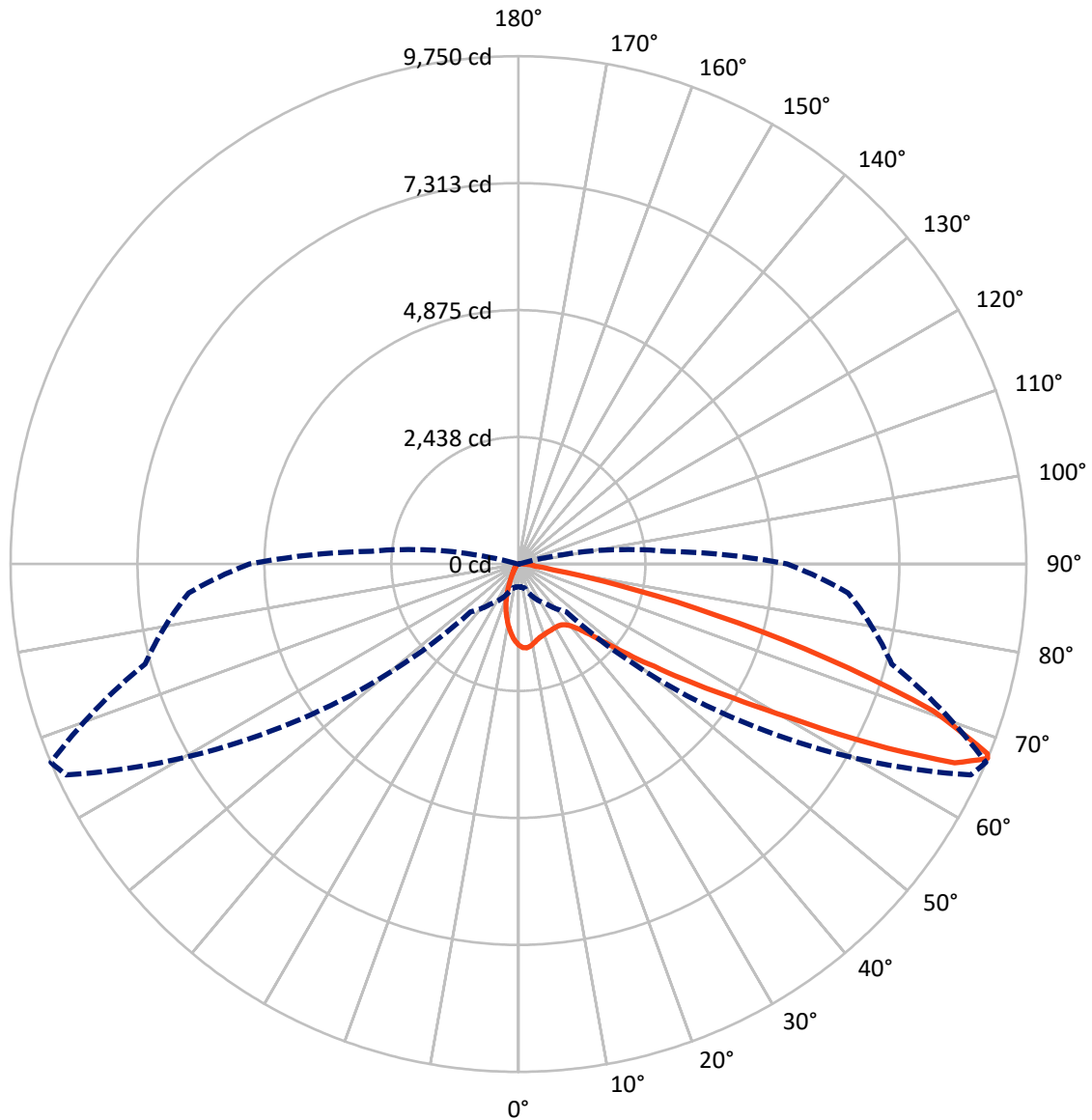


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	735.2	0.0	735.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6345.3	0.0	6345.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	7080.4	0.0	7080.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.8
10°-20°	270.4	3.8
20°-30°	393.2	5.6
30°-40°	613.4	8.7
40°-50°	1086.5	15.3
50°-60°	1719.4	24.3
60°-70°	1969.3	27.8
70°-80°	816.8	11.5
80°-90°	84.4	1.2
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°	7080.4	100.0
0°-180°	7080.4	100.0



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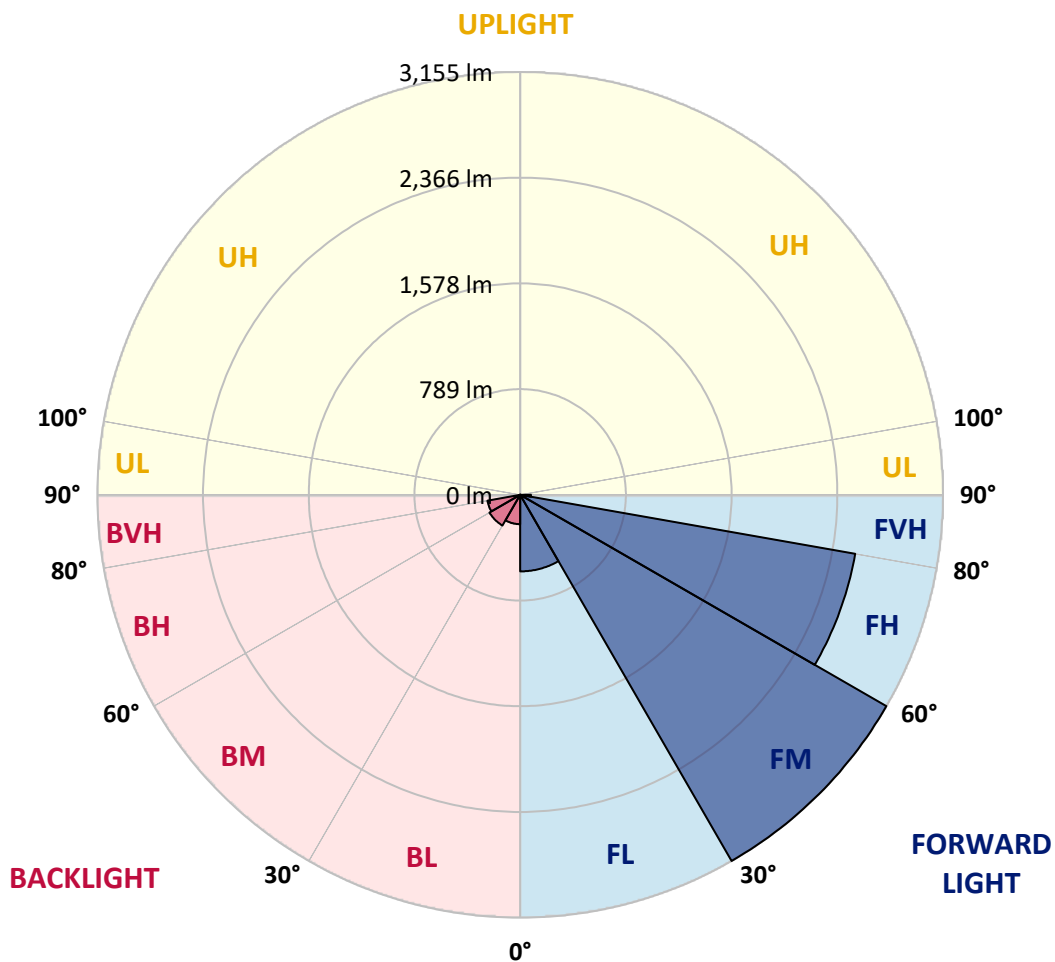
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.3	8.1			
FM	(30°-60°)	3155.0	44.6			
FH	(60°-80°)	2538.3	35.9			G2/5000
FVH	(80°-90°)	80.6	1.1			G1/100
BL	(0°-30°)	219.4	3.1	B1/500		
BM	(30°-60°)	264.2	3.7	B1/1000		
BH	(60°-80°)	247.8	3.5	B1/500		G1/500
BVH	(80°-90°)	3.8	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6
2.5°	1614.3	1617.7	1617.3	1619.7	1625.6	1625.9	1620.2	1609.0	1606.4	1592.1	1566.9
5°	1488.9	1498.4	1504.1	1527.6	1554.1	1585.9	1609.9	1618.4	1617.3	1606.9	1568.9
7.5°	1345.5	1355.1	1361.7	1389.3	1424.4	1478.9	1541.2	1592.4	1596.9	1608.1	1567.3
10°	1250.1	1251.8	1260.9	1287.4	1324.0	1379.7	1454.1	1543.7	1557.3	1598.3	1563.1
12.5°	1171.6	1172.8	1184.9	1213.3	1252.5	1308.7	1386.9	1490.5	1511.5	1585.9	1562.3
15°	1115.9	1120.5	1131.1	1160.9	1202.7	1258.3	1338.5	1451.2	1476.5	1581.3	1569.8
17.5°	1097.3	1102.3	1105.5	1127.1	1165.0	1219.5	1301.7	1425.6	1454.1	1583.8	1584.3
20°	1116.8	1120.5	1113.0	1118.4	1141.8	1190.7	1270.7	1403.7	1437.6	1586.6	1602.8
22.5°	1188.9	1190.7	1170.4	1146.9	1142.7	1169.6	1246.4	1386.4	1422.7	1594.5	1624.7
25°	1312.9	1310.0	1276.9	1226.1	1178.2	1165.9	1231.9	1375.7	1415.3	1602.8	1647.4
27.5°	1462.4	1466.6	1421.1	1347.2	1255.9	1190.7	1229.9	1371.2	1412.0	1608.5	1667.3
30°	1644.1	1649.8	1597.8	1504.9	1374.0	1251.8	1248.9	1370.3	1409.9	1604.8	1669.0
32.5°	1829.5	1836.6	1795.6	1699.9	1531.8	1354.1	1291.9	1379.3	1414.0	1592.1	1659.3
35°	2023.6	2033.6	2006.3	1924.1	1745.6	1502.1	1367.4	1407.0	1433.4	1590.8	1649.8
37.5°	2291.7	2300.6	2249.5	2162.4	2004.6	1700.2	1488.9	1459.0	1479.2	1610.7	1652.3
40°	2691.9	2690.7	2558.5	2425.1	2289.2	1952.1	1659.3	1553.2	1563.6	1670.5	1683.0
42.5°	3128.0	3125.9	2930.5	2727.8	2605.2	2262.3	1883.7	1715.9	1708.9	1780.8	1762.2
45°	3464.1	3463.7	3304.2	3075.8	2985.4	2618.3	2173.4	1942.2	1931.5	1960.0	1908.4
47.5°	3607.5	3609.8	3529.8	3369.2	3407.1	3099.8	2539.0	2270.1	2254.0	2242.4	2164.0
50°	3495.9	3500.9	3507.4	3476.1	3716.5	3747.0	3029.3	2732.4	2724.5	2672.8	2550.2
52.5°	3131.6	3156.9	3234.4	3334.0	3823.8	4368.1	3797.9	3306.3	3264.3	3209.3	3074.3
55°	2517.9	2545.6	2693.1	2934.7	3663.9	4776.2	4874.8	4046.4	3976.2	3812.2	3617.4
57.5°	1666.4	1709.4	1923.4	2230.5	3199.9	4841.9	5949.5	5073.4	4829.0	4380.0	4160.4
60°	918.1	959.4	1191.4	1469.7	2311.1	4517.1	6672.3	6410.8	5978.8	5014.9	4819.9
62.5°	565.4	587.8	759.1	1018.0	1385.9	3565.4	6821.6	8091.2	7591.0	5832.2	5616.7
65°	450.1	459.7	543.5	832.2	993.6	2120.7	6338.9	9372.2	9205.4	6821.6	6329.7
67°	436.9	440.7	480.4	714.4	936.7	1300.0	5310.6	9580.9	9750.2	7420.4	6352.2
67.5°	439.8	443.9	481.5	681.9	935.0	1194.7	4956.2	9498.6	9712.6	7468.0	6253.5
70°	424.1	436.9	551.3	681.5	889.1	992.7	2968.1	8229.9	8452.5	6939.0	5306.0
72.5°	150.3	151.2	238.3	551.3	966.8	1003.5	1490.5	6033.2	6198.0	5308.1	3825.4
75°	89.2	75.9	79.3	156.9	923.8	974.7	859.9	3855.2	3916.7	3041.7	1937.4
77.5°	61.5	53.7	55.3	69.3	351.9	960.9	683.2	2010.3	1944.7	1066.7	412.6
80°	35.2	31.0	33.1	60.7	128.0	896.6	644.3	815.2	695.1	180.9	113.9
82.5°	18.5	15.7	19.0	49.9	89.2	558.7	645.5	393.9	312.3	61.2	77.7
85°	6.6	5.4	9.2	34.2	59.5	171.3	598.5	331.3	260.1	29.7	59.1
87.5°	1.3	1.3	3.8	14.1	24.0	52.5	353.9	196.5	131.7	17.7	40.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6	1561.6
2.5°	1556.6	1538.7	1514.8	1485.4	1450.9	1420.2	1397.6	1374.0	1369.0	1360.8	1359.6
5°	1546.3	1515.6	1456.2	1388.1	1315.4	1249.7	1196.5	1148.9	1127.8	1109.6	1107.6
7.5°	1530.9	1485.1	1383.8	1274.1	1160.5	1057.2	969.7	907.7	850.8	823.4	819.3
10°	1513.1	1447.4	1302.5	1150.2	993.3	847.5	717.3	608.3	542.2	503.1	498.1
12.5°	1496.7	1410.8	1219.5	1021.7	813.1	618.3	450.9	346.9	277.5	249.4	246.1
15°	1488.9	1381.1	1141.8	890.4	624.9	393.5	246.6	190.8	168.2	161.4	161.1
17.5°	1488.0	1355.8	1065.8	754.5	437.7	228.8	160.6	146.7	142.0	140.4	140.4
20°	1487.6	1331.8	989.9	613.7	277.9	152.4	133.8	130.6	127.2	125.1	125.1
22.5°	1492.2	1310.4	910.6	470.0	175.1	123.4	117.7	114.4	110.2	107.3	107.0
25°	1496.7	1293.9	829.7	334.4	126.8	107.3	101.6	97.0	91.3	87.6	87.1
27.5°	1497.5	1273.3	743.0	223.9	106.1	93.8	86.2	79.3	72.8	69.0	68.5
30°	1485.1	1238.6	646.7	151.2	93.8	81.3	71.4	64.0	57.9	54.9	54.9
32.5°	1460.7	1195.6	541.0	113.9	83.5	69.8	59.1	52.0	47.9	46.6	46.3
35°	1438.8	1149.3	432.4	96.7	74.7	59.1	48.2	43.7	41.3	41.0	40.5
37.5°	1426.0	1112.1	330.3	87.6	66.5	49.5	41.0	37.5	36.3	35.6	35.9
40°	1435.9	1081.2	244.1	80.0	58.2	41.3	34.7	33.1	31.8	31.4	31.4
42.5°	1479.2	1075.8	181.3	73.5	50.3	34.2	30.2	28.9	28.0	27.7	28.0
45°	1593.4	1108.9	140.9	67.4	42.5	28.9	25.6	25.2	24.8	24.8	24.8
47.5°	1764.7	1177.0	117.3	60.2	35.6	24.8	22.3	21.9	21.5	21.9	21.9
50°	2055.1	1301.7	104.9	53.3	29.4	21.1	19.0	19.0	19.0	19.0	19.5
52.5°	2496.5	1547.1	96.7	46.3	24.0	17.7	16.1	16.1	16.4	16.4	17.0
55°	2988.3	1872.4	89.2	39.3	20.2	14.8	13.2	13.7	14.1	14.5	14.5
57.5°	3522.0	2232.9	83.1	32.2	17.3	11.9	11.1	11.6	11.9	12.8	12.8
60°	4165.8	2623.3	73.9	25.2	14.5	9.5	8.7	9.5	10.7	11.6	11.9
62.5°	4872.8	3000.8	62.3	19.9	11.9	7.5	7.0	8.7	10.3	11.1	11.6
65°	5356.0	3119.3	47.9	16.1	9.2	5.4	5.7	7.8	9.9	11.1	11.1
67°	5160.3	2828.1	39.3	13.7	7.5	4.1	5.4	7.8	9.9	10.7	11.1
67.5°	5024.4	2714.0	37.5	13.2	7.0	4.1	5.4	7.8	9.9	11.1	11.1
70°	4088.1	2039.0	31.4	9.9	5.7	3.8	4.5	7.5	9.5	10.7	10.7
72.5°	2840.5	1257.1	28.0	7.0	4.9	3.4	4.1	7.0	9.2	10.3	10.7
75°	1350.4	455.1	24.0	5.4	4.5	2.9	3.8	7.0	9.2	10.3	10.3
77.5°	275.5	105.7	19.5	4.5	3.8	2.9	3.4	6.6	8.7	9.9	9.9
80°	90.4	41.0	14.5	4.1	3.8	2.9	3.4	6.2	8.7	9.5	9.9
82.5°	65.2	20.7	9.5	4.1	3.8	2.9	2.9	6.2	8.3	9.5	9.5
85°	49.9	14.5	6.2	4.1	3.8	2.9	2.9	5.7	7.8	9.2	9.2
87.5°	33.1	5.7	4.9	4.1	3.8	2.9	2.9	5.7	7.5	8.7	9.2
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)