

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: P193580

Luminaire Tested: **GAN-AF-02-LED-U-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193580
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-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 6650 lumens
Efficiency: N/A
Efficacy: 78.2 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

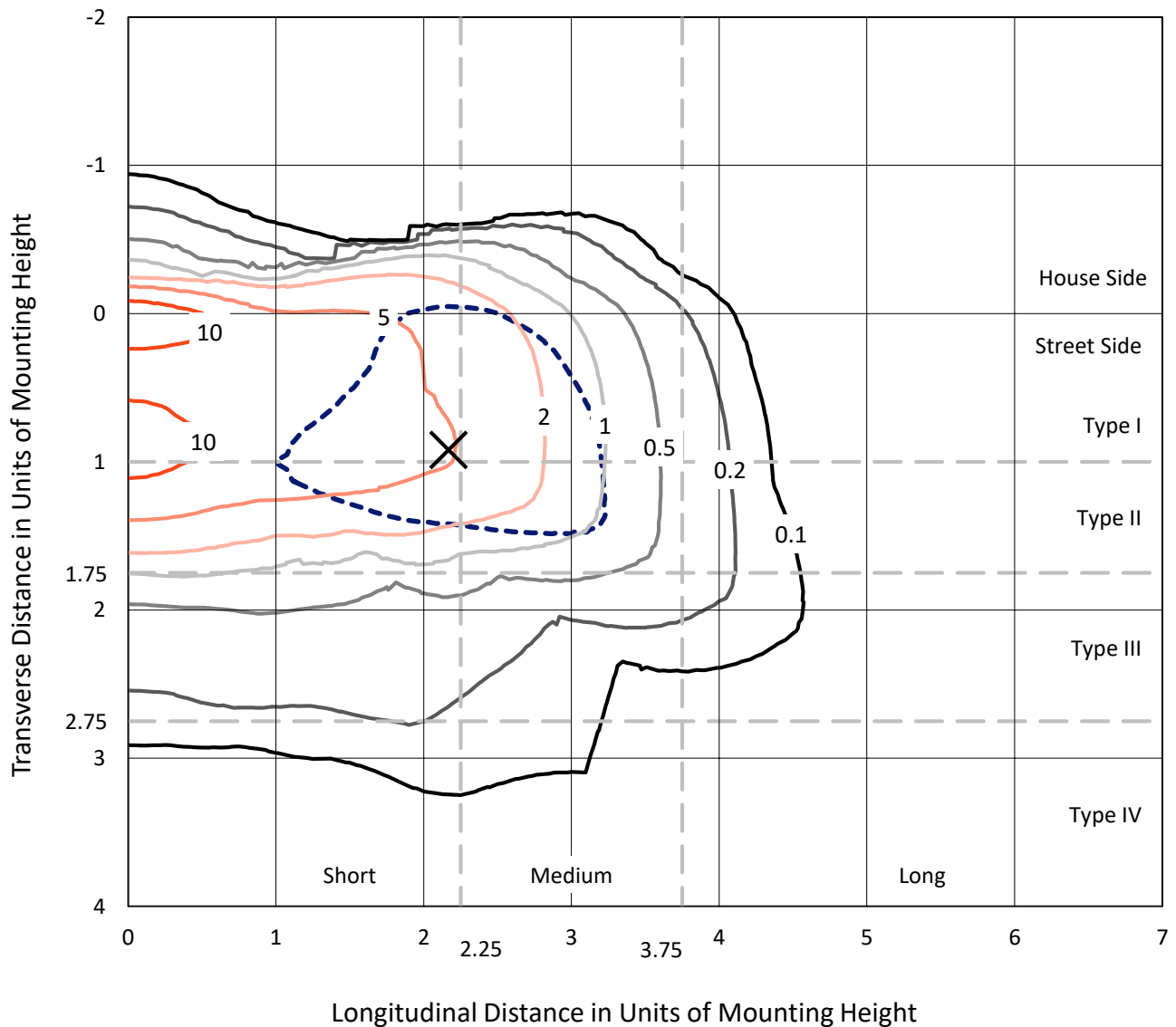


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

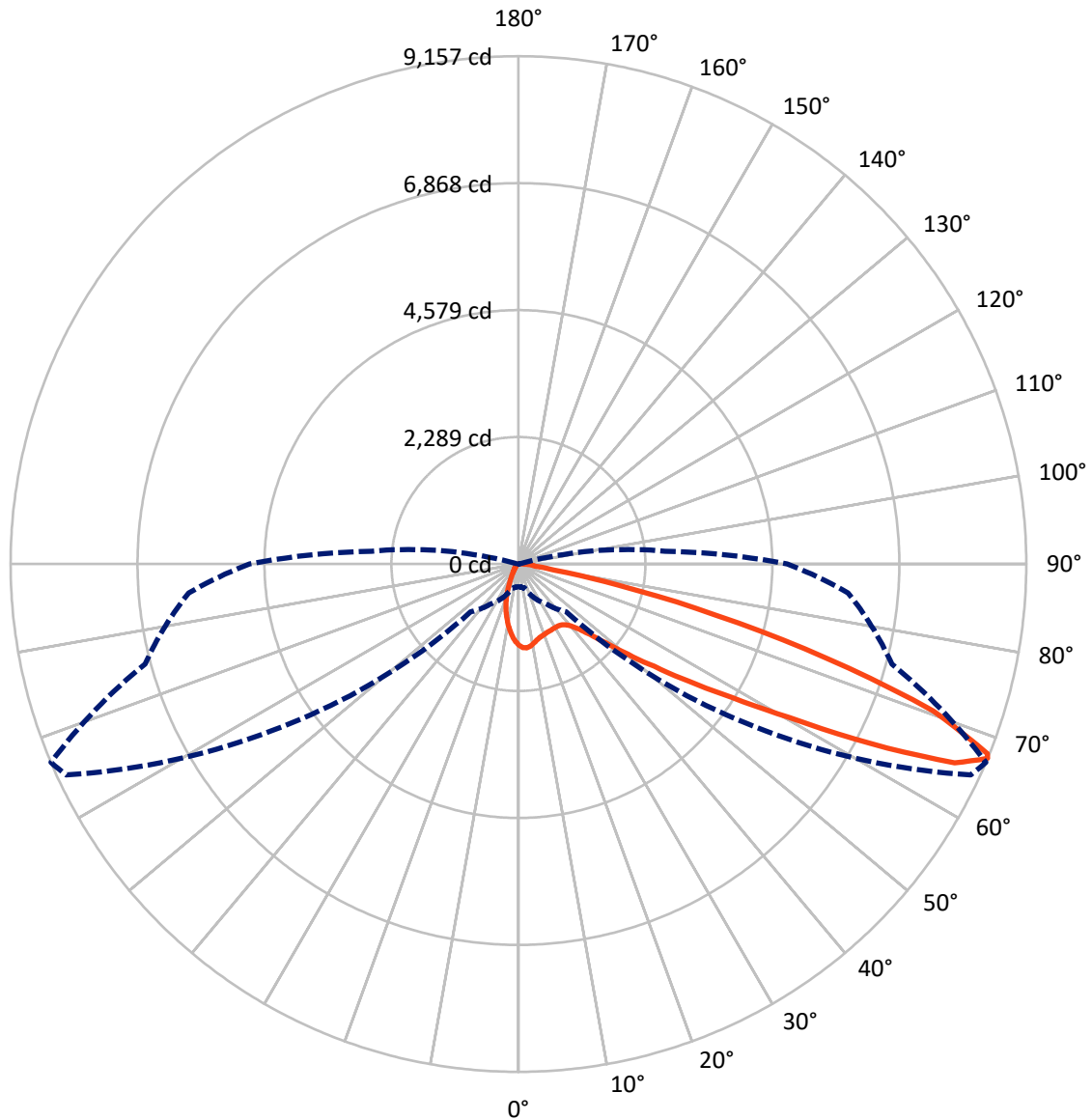


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - Semi-Cutoff

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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	690.5	0.0	690.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5959.5	0.0	5959.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	6650.0	0.0	6650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.8
10°-20°	254.0	3.8
20°-30°	369.3	5.6
30°-40°	576.1	8.7
40°-50°	1020.5	15.3
50°-60°	1614.8	24.3
60°-70°	1849.6	27.8
70°-80°	767.2	11.5
80°-90°	79.2	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°	6650.0	100.0
0°-180°	6650.0	100.0

Coefficient of Utilization



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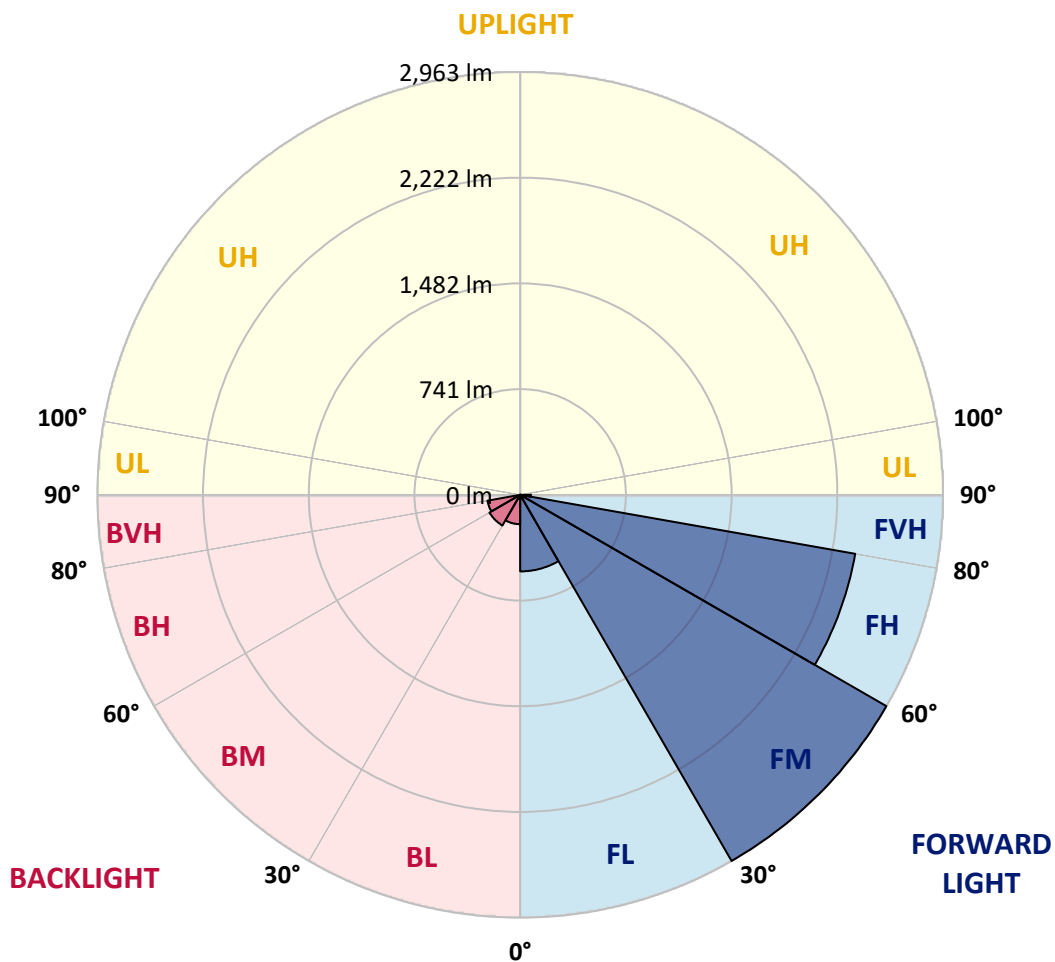
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.6	8.1			
FM (30°-60°)	2963.3	44.6			
FH (60°-80°)	2384.0	35.9			G2/5000
FVH (80°-90°)	75.7	1.1			G1/100
BL (0°-30°)	206.0	3.1	B1/500		
BM (30°-60°)	248.2	3.7	B1/1000		
BH (60°-80°)	232.7	3.5	B1/500		G1/500
BVH (80°-90°)	3.6	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°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1516.2	1519.3	1518.9	1521.3	1526.7	1527.1	1521.6	1511.2	1508.8	1495.3	1471.6
5°	1398.3	1407.2	1412.7	1434.8	1459.6	1489.5	1512.0	1520.1	1518.9	1509.2	1473.6
7.5°	1263.7	1272.6	1278.8	1304.8	1337.8	1389.0	1447.6	1495.7	1499.9	1510.4	1472.0
10°	1174.1	1175.7	1184.2	1209.0	1243.5	1295.9	1365.7	1449.9	1462.7	1501.1	1468.1
12.5°	1100.4	1101.6	1112.8	1139.6	1176.4	1229.2	1302.5	1399.9	1419.6	1489.5	1467.3
15°	1048.0	1052.3	1062.4	1090.3	1129.5	1181.9	1257.1	1363.0	1386.7	1485.2	1474.3
17.5°	1030.6	1035.2	1038.4	1058.5	1094.2	1145.4	1222.6	1339.0	1365.7	1487.5	1487.9
20°	1048.8	1052.3	1045.3	1050.4	1072.5	1118.3	1193.5	1318.4	1350.2	1490.2	1505.4
22.5°	1116.7	1118.3	1099.2	1077.1	1073.3	1098.5	1170.6	1302.1	1336.2	1497.6	1525.9
25°	1233.1	1230.4	1199.3	1151.6	1106.6	1095.0	1157.0	1292.0	1329.3	1505.4	1547.2
27.5°	1373.5	1377.4	1334.7	1265.3	1179.5	1118.3	1155.1	1287.8	1326.2	1510.8	1565.9
30°	1544.1	1549.6	1500.7	1413.4	1290.5	1175.7	1172.9	1287.0	1324.2	1507.3	1567.4
32.5°	1718.3	1724.9	1686.5	1596.5	1438.6	1271.9	1213.3	1295.5	1328.1	1495.3	1558.5
35°	1900.6	1909.9	1884.3	1807.1	1639.6	1410.7	1284.3	1321.5	1346.3	1494.1	1549.6
37.5°	2152.3	2160.9	2112.8	2030.9	1882.8	1596.9	1398.3	1370.4	1389.4	1512.7	1551.9
40°	2528.2	2527.0	2402.9	2277.6	2150.0	1833.5	1558.5	1458.8	1468.5	1569.0	1580.6
42.5°	2937.8	2935.9	2752.4	2561.9	2446.7	2124.8	1769.1	1611.6	1605.0	1672.5	1655.1
45°	3253.5	3253.1	3103.4	2888.9	2804.0	2459.2	2041.4	1824.2	1814.1	1840.9	1792.4
47.5°	3388.1	3390.5	3315.2	3164.3	3200.0	2911.4	2384.7	2132.2	2117.0	2106.2	2032.5
50°	3283.4	3288.1	3294.3	3264.8	3490.5	3519.2	2845.1	2566.2	2558.8	2510.4	2395.2
52.5°	2941.3	2964.9	3037.9	3131.3	3591.4	4102.6	3566.9	3105.4	3065.8	3014.2	2887.4
55°	2364.9	2390.9	2529.4	2756.3	3441.3	4485.8	4578.5	3800.4	3734.5	3580.5	3397.4
57.5°	1565.1	1605.4	1806.4	2094.9	3005.3	4547.5	5587.8	4765.1	4535.5	4113.8	3907.5
60°	862.3	901.0	1119.0	1380.5	2170.6	4242.6	6266.6	6021.0	5615.3	4710.0	4526.9
62.5°	531.0	552.0	712.9	956.1	1301.7	3348.6	6407.0	7599.3	7129.6	5477.6	5275.2
65°	422.8	431.7	510.4	781.6	933.2	1991.8	5953.6	8802.5	8645.8	6407.0	5945.0
67°	410.4	413.9	451.1	671.0	879.7	1221.0	4987.7	8998.4	9157.4	6969.4	5966.0
67.5°	413.1	417.0	452.3	640.4	878.2	1122.1	4654.9	8921.2	9122.1	7014.0	5873.3
70°	398.4	410.4	517.8	640.0	835.1	932.5	2787.7	7729.7	7938.7	6517.1	4983.5
72.5°	141.2	142.0	223.8	517.8	908.0	942.5	1399.9	5666.5	5821.3	4985.4	3592.9
75°	83.8	71.4	74.5	147.4	867.7	915.4	807.6	3620.9	3678.6	2856.7	1819.5
77.5°	57.8	50.4	52.0	65.2	330.5	902.6	641.6	1888.2	1826.5	1001.9	387.5
80°	33.0	29.1	31.0	57.0	120.2	842.1	605.1	765.7	652.8	169.9	107.1
82.5°	17.5	14.7	17.8	46.9	83.8	524.8	606.3	370.0	293.2	57.4	72.9
85°	6.2	5.0	8.5	32.2	55.9	161.0	562.0	311.1	244.4	27.9	55.5
87.5°	1.2	1.2	3.5	13.2	22.5	49.3	332.4	184.6	123.7	16.7	38.0
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°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1461.9	1445.2	1422.7	1395.2	1362.6	1333.9	1312.6	1290.5	1285.8	1278.1	1276.9
5°	1452.2	1423.5	1367.7	1303.7	1235.4	1173.7	1123.7	1079.1	1059.3	1042.2	1040.3
7.5°	1437.9	1394.8	1299.8	1196.6	1089.9	993.0	910.7	852.6	799.0	773.4	769.6
10°	1421.2	1359.5	1223.4	1080.2	932.8	795.9	673.7	571.3	509.3	472.4	467.8
12.5°	1405.7	1325.0	1145.4	959.6	763.7	580.7	423.6	325.8	260.7	234.3	231.2
15°	1398.3	1297.1	1072.5	836.3	586.9	369.6	231.6	179.2	157.9	151.7	151.3
17.5°	1397.5	1273.4	1001.1	708.7	411.2	214.9	150.9	137.7	133.4	131.9	131.9
20°	1397.1	1250.9	929.7	576.4	261.0	143.1	125.7	122.6	119.5	117.5	117.5
22.5°	1401.4	1230.7	855.3	441.4	164.5	116.0	110.5	107.4	103.6	100.8	100.5
25°	1405.7	1215.2	779.2	314.2	119.1	100.8	95.4	91.2	85.7	82.2	81.8
27.5°	1406.4	1195.8	697.8	210.2	99.7	88.0	81.1	74.5	68.3	64.8	64.4
30°	1394.8	1163.2	607.4	142.0	88.0	76.4	67.1	60.1	54.3	51.6	51.6
32.5°	1371.9	1122.9	508.1	107.1	78.4	65.6	55.5	48.9	45.0	43.8	43.4
35°	1351.4	1079.5	406.1	90.8	70.2	55.5	45.4	41.1	38.8	38.4	38.0
37.5°	1339.3	1044.6	310.3	82.2	62.4	46.5	38.4	35.3	34.1	33.4	33.7
40°	1348.7	1015.5	229.2	75.2	54.7	38.8	32.6	31.0	29.9	29.5	29.5
42.5°	1389.4	1010.4	170.3	69.0	47.3	32.2	28.3	27.2	26.4	26.0	26.4
45°	1496.4	1041.5	132.3	63.2	40.0	27.2	24.0	23.7	23.3	23.3	23.3
47.5°	1657.4	1105.5	110.2	56.6	33.4	23.3	20.9	20.6	20.2	20.6	20.6
50°	1930.1	1222.6	98.5	50.0	27.5	19.8	17.8	17.8	17.8	17.8	18.2
52.5°	2344.7	1453.0	90.8	43.4	22.5	16.7	15.1	15.1	15.5	15.5	15.9
55°	2806.7	1758.6	83.8	36.8	19.0	14.0	12.4	12.8	13.2	13.6	13.6
57.5°	3307.8	2097.3	78.0	30.3	16.3	11.2	10.5	10.9	11.2	12.0	12.0
60°	3912.5	2463.8	69.4	23.7	13.6	8.9	8.1	8.9	10.1	10.9	11.2
62.5°	4576.6	2818.3	58.6	18.6	11.2	7.0	6.6	8.1	9.7	10.5	10.9
65°	5030.4	2929.7	45.0	15.1	8.5	5.0	5.4	7.4	9.3	10.5	10.5
67°	4846.5	2656.2	36.8	12.8	7.0	3.9	5.0	7.4	9.3	10.1	10.5
67.5°	4718.9	2549.1	35.3	12.4	6.6	3.9	5.0	7.4	9.3	10.5	10.5
70°	3839.6	1915.0	29.5	9.3	5.4	3.5	4.3	7.0	8.9	10.1	10.1
72.5°	2667.8	1180.7	26.4	6.6	4.7	3.1	3.9	6.6	8.5	9.7	10.1
75°	1268.4	427.4	22.5	5.0	4.3	2.7	3.5	6.6	8.5	9.7	9.7
77.5°	258.7	99.3	18.2	4.3	3.5	2.7	3.1	6.2	8.1	9.3	9.3
80°	84.9	38.4	13.6	3.9	3.5	2.7	3.1	5.8	8.1	8.9	9.3
82.5°	61.3	19.4	8.9	3.9	3.5	2.7	2.7	5.8	7.8	8.9	8.9
85°	46.9	13.6	5.8	3.9	3.5	2.7	2.7	5.4	7.4	8.5	8.5
87.5°	31.0	5.4	4.7	3.9	3.5	2.7	2.7	5.4	7.0	8.1	8.5
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)