

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: P322827

Luminaire Tested: **GAN-SA3A-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9390 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

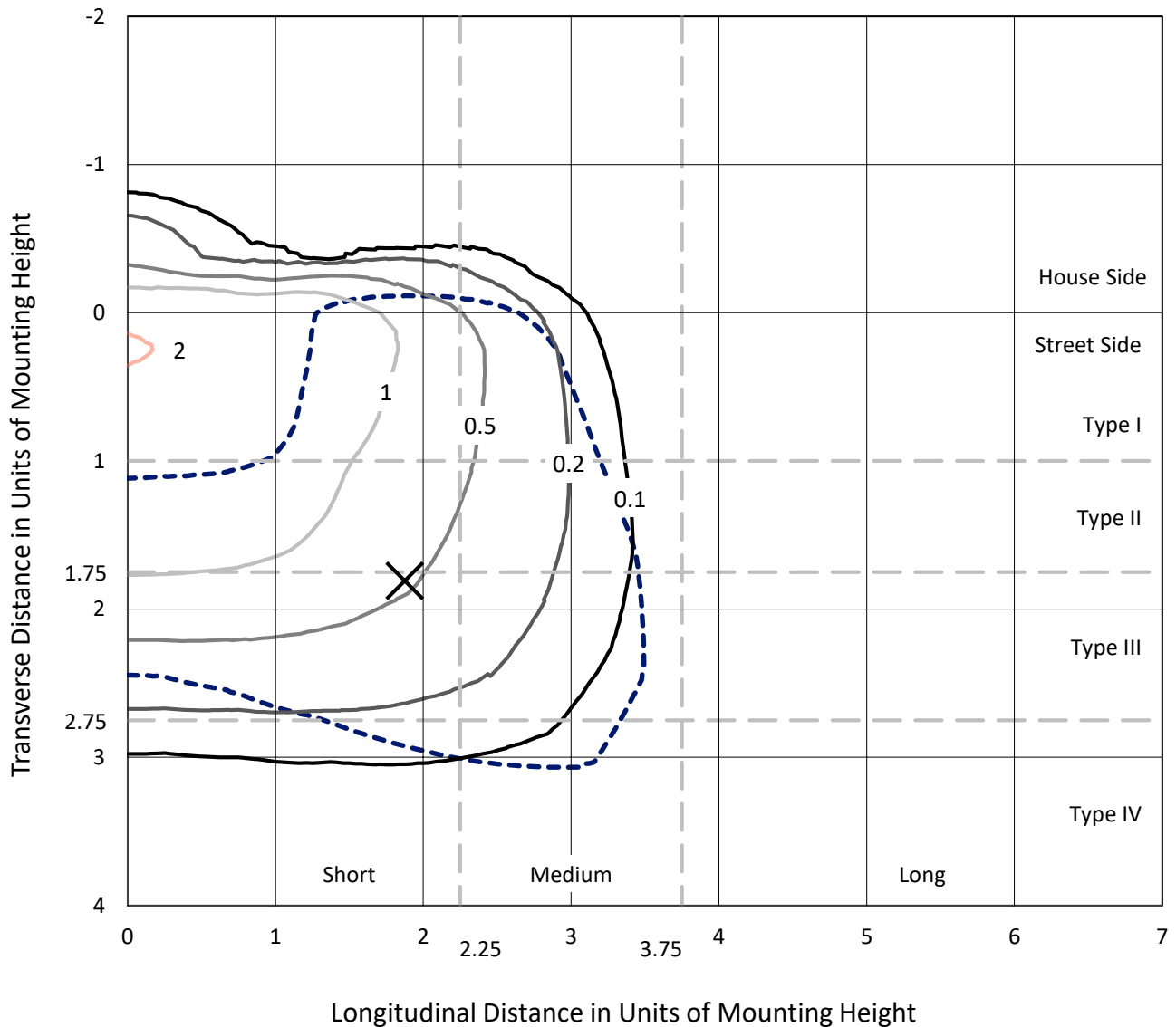
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

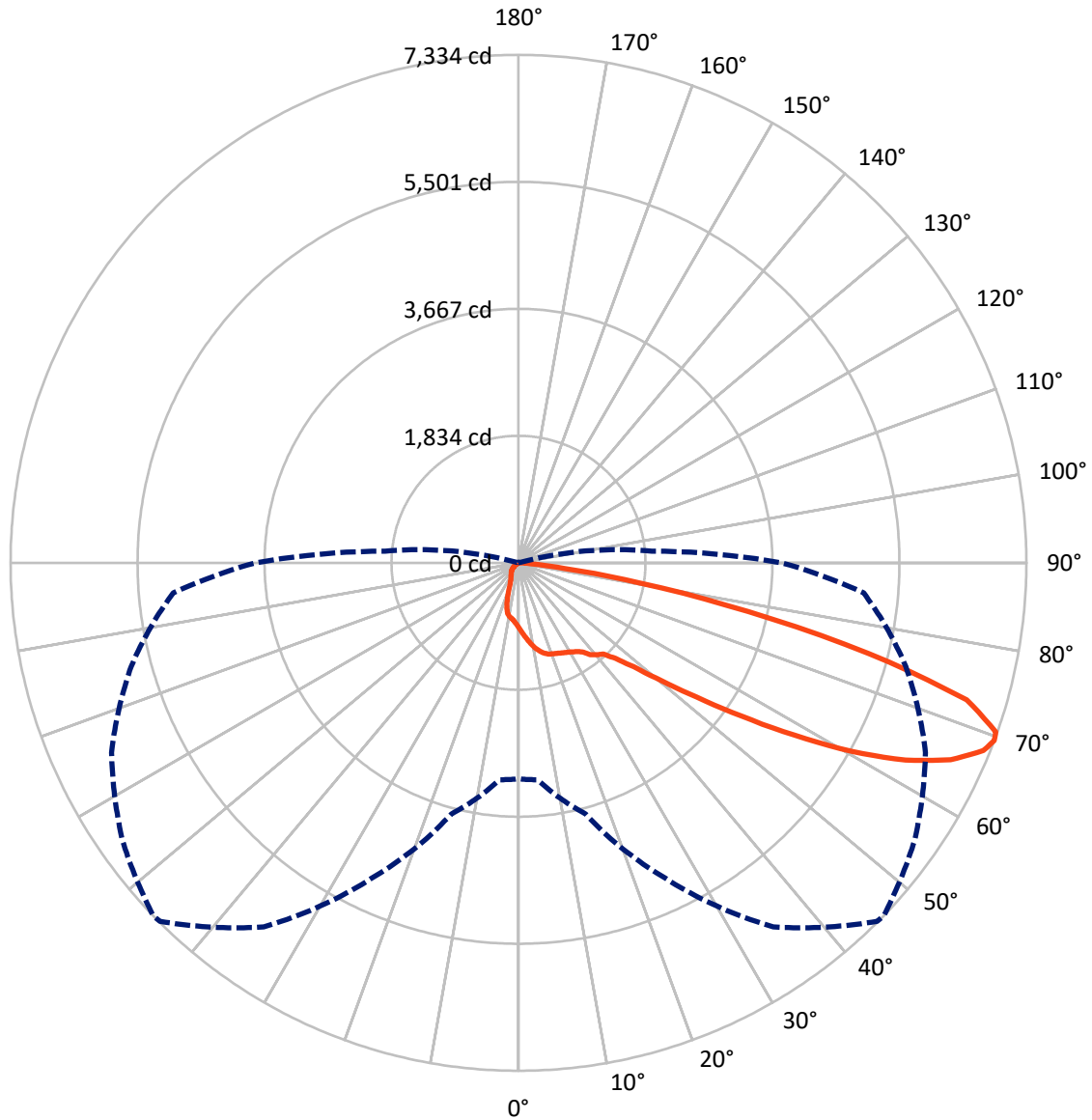
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	963.7	0.0	963.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8426.3	0.0	8426.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	9390.0	0.0	9390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.0
10°-20°	284.1	3.0
20°-30°	446.8	4.8
30°-40°	640.7	6.8
40°-50°	1107.4	11.8
50°-60°	2187.7	23.3
60°-70°	3057.6	32.6
70°-80°	1477.1	15.7
80°-90°	94.9	1.0
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°	9390.0	100.0
0°-180°	9390.0	100.0

Coefficient of Utilization



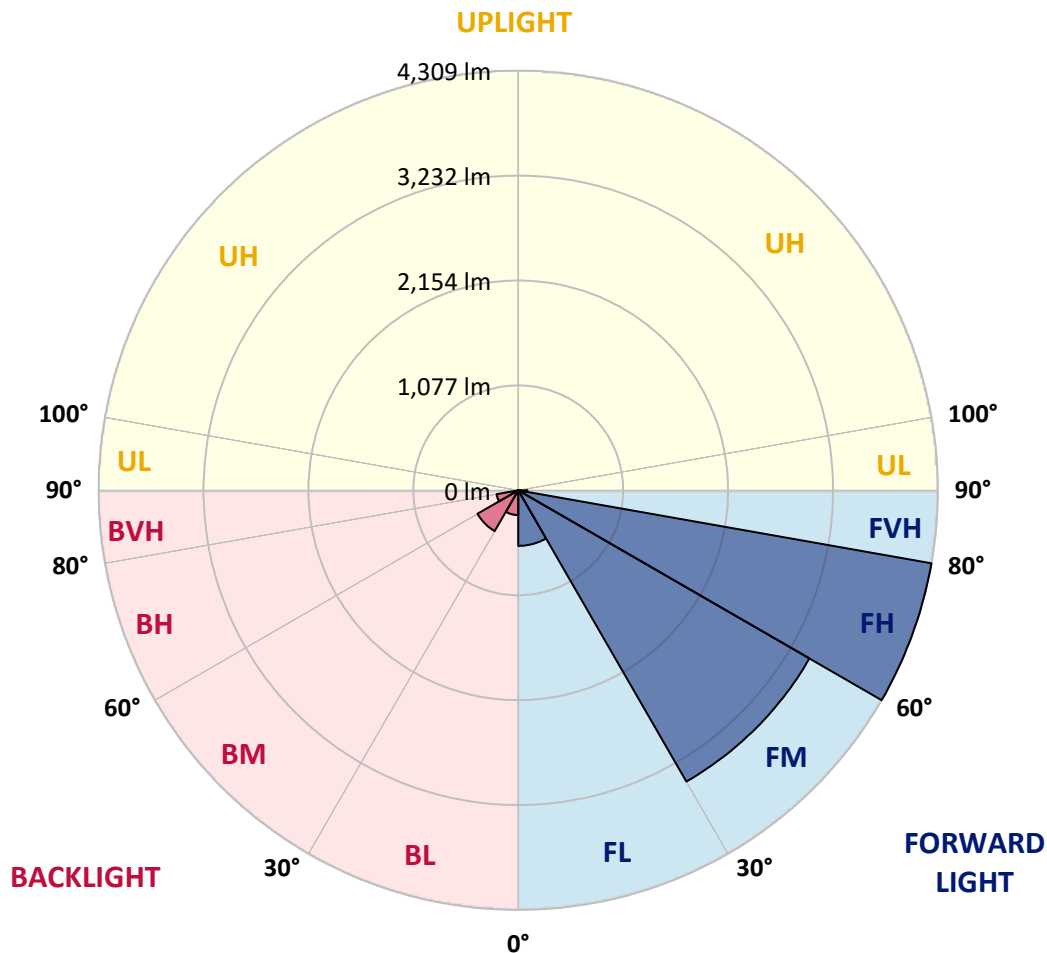
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.6	6.1			
FM (30°-60°)	3452.9	36.8			
FH (60°-80°)	4308.7	45.9			G2/5000
FVH (80°-90°)	94.1	1.0			G1/100
BL (0°-30°)	254.0	2.7	B1/500		
BM (30°-60°)	482.9	5.1	B1/1000		
BH (60°-80°)	226.0	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	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°	35°	45°	46°	55°	65°	75°	85°
0°	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8
2.5°	1045.2	1043.9	1037.7	1035.1	1020.1	1011.3	1007.8	996.8	980.9	965.1	947.4
5°	1164.1	1163.6	1152.2	1141.2	1113.0	1086.6	1081.7	1056.2	1020.5	987.1	953.6
7.5°	1285.6	1279.8	1268.4	1247.3	1206.3	1164.1	1160.1	1124.0	1073.4	1024.9	976.9
10°	1388.6	1385.1	1370.1	1338.0	1290.0	1242.0	1237.1	1192.7	1135.4	1076.0	1014.8
12.5°	1468.7	1466.1	1446.3	1406.2	1355.1	1305.4	1298.8	1259.2	1198.0	1131.5	1059.3
15°	1517.6	1516.3	1492.1	1449.3	1399.2	1356.0	1350.3	1315.5	1258.7	1189.2	1107.7
17.5°	1529.0	1529.5	1504.4	1461.2	1419.8	1389.0	1384.6	1358.2	1310.7	1241.5	1156.1
20°	1503.5	1508.8	1486.3	1448.9	1423.4	1407.1	1403.6	1387.7	1347.6	1282.5	1194.9
22.5°	1467.4	1470.0	1454.6	1429.5	1419.0	1422.1	1420.3	1411.5	1377.6	1317.7	1233.2
25°	1445.4	1445.4	1436.1	1415.0	1422.1	1441.0	1441.4	1439.7	1412.8	1360.9	1279.8
27.5°	1444.5	1441.9	1431.3	1415.4	1434.8	1463.9	1465.6	1477.5	1460.8	1413.2	1338.0
30°	1479.7	1476.6	1454.2	1433.5	1458.2	1489.4	1493.8	1519.8	1511.4	1470.0	1402.7
32.5°	1562.1	1551.0	1501.3	1467.4	1485.9	1523.3	1529.0	1570.4	1583.6	1540.0	1465.2
35°	1674.8	1640.0	1568.2	1531.7	1533.4	1572.6	1577.9	1638.7	1677.8	1604.3	1513.6
37.5°	1830.2	1813.0	1696.3	1598.6	1606.5	1666.0	1681.4	1747.4	1736.4	1639.5	1568.7
40°	2170.9	2144.1	2019.9	1786.1	1676.5	1741.7	1746.5	1781.7	1782.6	1719.2	1683.1
42.5°	2635.0	2624.0	2493.2	2126.5	1814.3	1792.3	1801.1	1860.6	1927.0	1887.4	1885.6
45°	3148.8	3143.0	3004.4	2578.2	2093.0	1958.3	1969.3	2049.0	2176.2	2185.0	2240.9
47.5°	3562.2	3559.5	3479.8	3082.3	2519.6	2239.6	2243.1	2327.7	2551.3	2661.8	2751.2
50°	3939.0	3951.8	3888.8	3627.8	3100.8	2680.3	2672.0	2728.3	3087.6	3268.5	3379.5
52.5°	4463.0	4481.0	4304.5	4136.7	3710.5	3227.1	3220.5	3279.5	3732.1	3867.7	3887.5
55°	4925.7	4894.8	4755.3	4706.9	4454.1	3902.5	3900.7	3952.7	4355.5	4413.2	4449.7
57.5°	5129.9	5118.1	5185.4	5296.4	5233.0	4700.7	4696.7	4657.1	4913.3	4919.5	5031.8
60°	5258.9	5273.5	5480.0	5822.0	5980.1	5559.6	5534.1	5292.4	5446.1	5432.4	5552.6
62.5°	5162.1	5190.7	5562.3	6132.4	6539.2	6309.4	6273.3	5874.4	5901.3	5854.2	5966.0
65°	4647.9	4692.3	5301.2	6073.9	6816.6	6895.4	6858.9	6388.2	6262.7	6185.3	6123.2
67.5°	3773.9	3800.4	4436.1	5564.5	6691.6	7245.0	7237.5	6838.6	6535.7	6129.3	5647.7
69°	3118.8	3144.8	3756.8	5028.2	6416.4	7319.8	7334.3	6983.0	6483.8	5789.5	5004.0
70°	2641.6	2669.3	3239.5	4568.6	6097.2	7285.0	7311.0	6969.4	6335.0	5395.9	4439.2
72.5°	1385.5	1409.3	1994.4	3147.4	4970.6	6689.4	6768.2	6380.3	5369.9	3918.8	2624.9
75°	435.4	449.1	778.8	1645.3	3403.2	5201.3	5219.3	5004.9	3813.1	2155.5	1093.2
77.5°	166.0	162.0	259.3	606.2	1720.5	3275.1	3385.6	3127.6	2001.0	762.1	252.3
80°	89.4	89.8	134.7	251.0	736.1	1683.1	1776.5	1515.8	711.0	237.7	58.1
82.5°	38.7	40.5	75.7	133.0	338.1	620.8	667.4	555.6	271.6	159.8	21.6
85°	8.4	9.2	36.5	72.2	137.8	174.3	182.7	180.1	173.0	124.2	8.4
87.5°	0.0	0.0	16.3	26.0	34.8	39.6	34.8	45.3	95.5	83.7	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°	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8	940.8
2.5°	941.7	933.8	920.2	905.2	894.6	883.6	874.8	870.8	866.4	863.4	867.3
5°	940.0	924.6	898.1	872.6	854.1	839.1	826.8	822.0	817.1	813.6	813.2
7.5°	955.4	933.8	893.3	855.9	827.3	807.0	790.3	783.2	777.5	774.9	772.7
10°	984.9	957.1	903.0	854.1	817.1	782.8	746.7	719.0	700.9	692.5	689.5
12.5°	1023.2	988.4	921.5	863.4	809.6	743.6	667.0	601.0	558.3	544.2	535.8
15°	1068.1	1024.9	945.7	875.2	782.3	661.7	531.8	445.5	405.9	398.0	389.2
17.5°	1111.2	1063.7	974.7	877.4	722.5	528.8	389.6	331.1	315.7	321.0	322.3
20°	1149.1	1102.0	1003.4	858.1	613.7	396.7	301.6	287.1	292.8	302.9	304.7
22.5°	1187.4	1139.0	1029.8	807.0	474.6	301.1	271.6	275.2	280.9	291.0	292.8
25°	1234.1	1183.9	1054.4	713.2	356.2	256.2	258.0	263.3	269.0	278.2	279.1
27.5°	1287.8	1240.7	1070.7	591.3	264.2	235.5	241.3	249.2	254.9	263.7	265.5
30°	1359.1	1315.5	1076.0	464.9	221.5	217.0	219.7	229.4	237.7	245.7	247.0
32.5°	1426.0	1389.5	1058.4	350.9	205.2	199.9	199.9	205.6	215.3	222.8	224.5
35°	1487.7	1463.9	1002.0	256.7	192.8	184.0	179.6	179.6	185.8	192.0	193.7
37.5°	1569.1	1568.2	910.9	204.7	180.9	170.8	161.6	154.5	152.3	153.7	154.5
40°	1708.7	1710.0	792.0	183.6	170.8	157.2	143.1	130.3	118.4	114.5	114.0
42.5°	1926.6	1906.8	667.4	173.5	162.0	143.1	122.0	104.8	86.3	80.6	80.1
45°	2272.6	2155.1	535.4	164.2	152.8	127.2	100.8	77.5	62.5	58.1	58.1
47.5°	2776.7	2481.3	414.7	154.1	140.4	109.2	76.2	55.9	45.8	43.6	44.0
50°	3298.0	2801.0	317.9	141.3	125.5	90.3	56.4	40.5	34.8	34.8	35.2
52.5°	3760.3	3035.2	247.9	127.7	107.0	70.9	42.7	31.7	29.1	28.6	29.1
55°	4193.1	3186.2	189.8	111.8	85.0	52.8	32.6	26.0	24.2	23.3	22.9
57.5°	4610.4	3261.0	142.2	90.3	61.6	38.3	26.0	22.0	20.3	18.9	18.5
60°	4888.2	3200.3	97.7	66.5	42.7	27.7	21.6	18.9	16.7	15.4	15.0
62.5°	5045.0	3034.3	63.0	48.0	30.4	20.7	17.2	15.8	12.8	11.4	11.4
65°	4981.6	2760.5	44.0	34.3	22.0	15.4	12.8	12.8	9.2	7.5	7.0
67.5°	4414.5	2332.1	33.5	25.5	15.8	11.4	9.7	11.0	5.7	3.5	3.5
69°	3798.2	1932.8	28.6	21.1	13.2	9.2	8.4	10.1	4.0	2.6	2.2
70°	3301.1	1667.3	26.0	18.5	11.0	7.9	7.5	9.7	4.0	2.2	1.8
72.5°	1975.0	929.8	19.8	13.2	7.0	6.2	6.2	11.0	4.0	2.2	1.8
75°	798.2	327.6	14.5	9.2	5.3	5.3	7.5	14.1	3.5	1.8	1.3
77.5°	180.9	71.8	8.4	5.7	3.5	5.3	8.8	11.0	2.2	0.9	0.0
80°	44.0	17.6	5.3	3.5	2.2	4.0	6.6	6.2	0.4	0.0	0.0
82.5°	14.5	6.2	2.2	1.8	0.4	1.3	3.1	1.8	0.0	0.0	0.0
85°	6.2	3.5	0.9	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	4.0	1.3	0.0	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)