

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: P453175

Luminaire Tested: **GLAN-SA4A-830-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 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: 10399 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

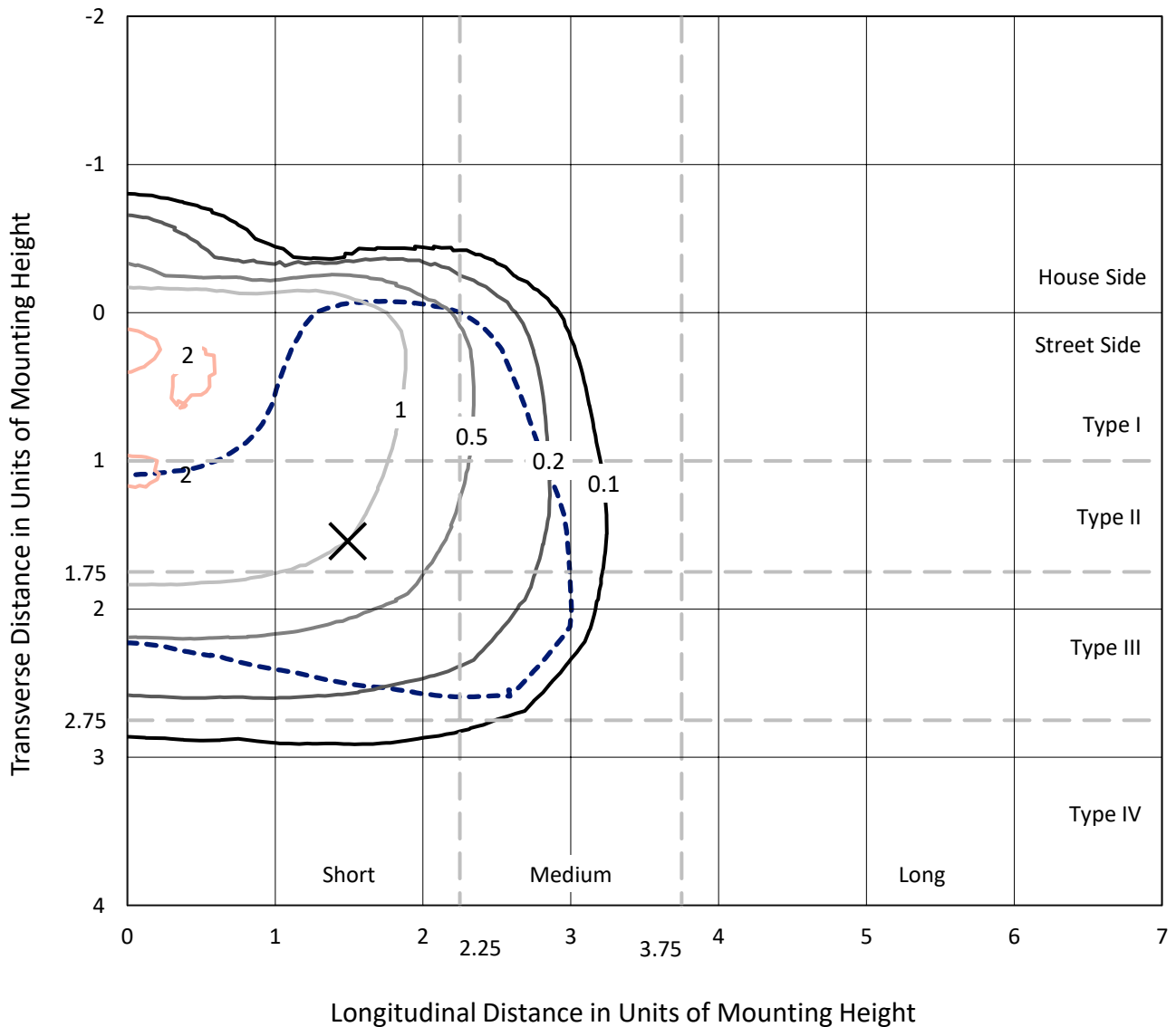
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

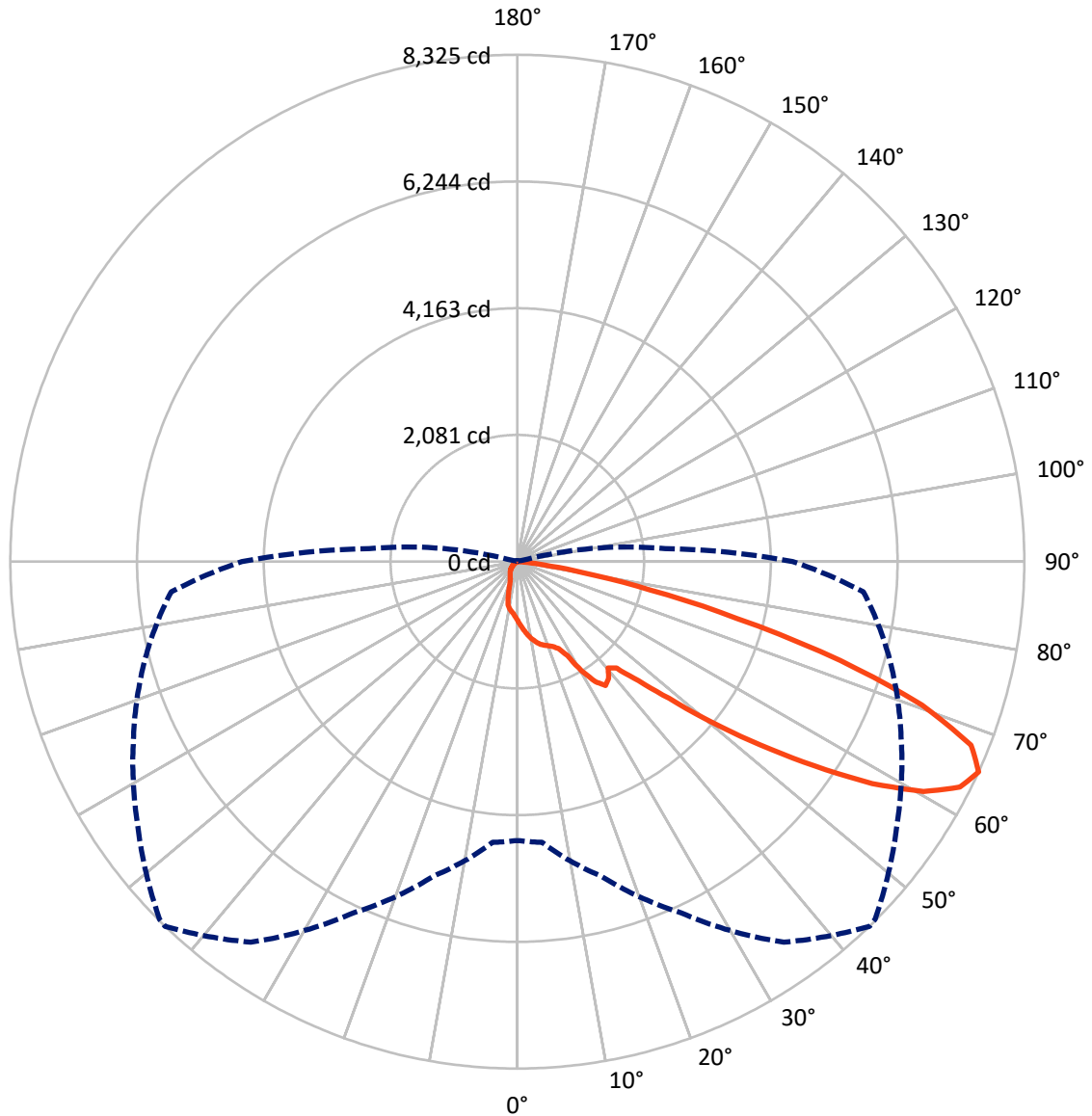
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	958.1	0.0	958.1
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	9440.9	0.0	9440.9
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	10399.0	0.0	10399.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.3	0.9
10°-20°	289.7	2.8
20°-30°	491.3	4.7
30°-40°	816.8	7.9
40°-50°	1426.1	13.7
50°-60°	2786.2	26.8
60°-70°	3232.6	31.1
70°-80°	1177.1	11.3
80°-90°	82.9	0.8
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°	10399.0	100.0
0°-180°	10399.0	100.0



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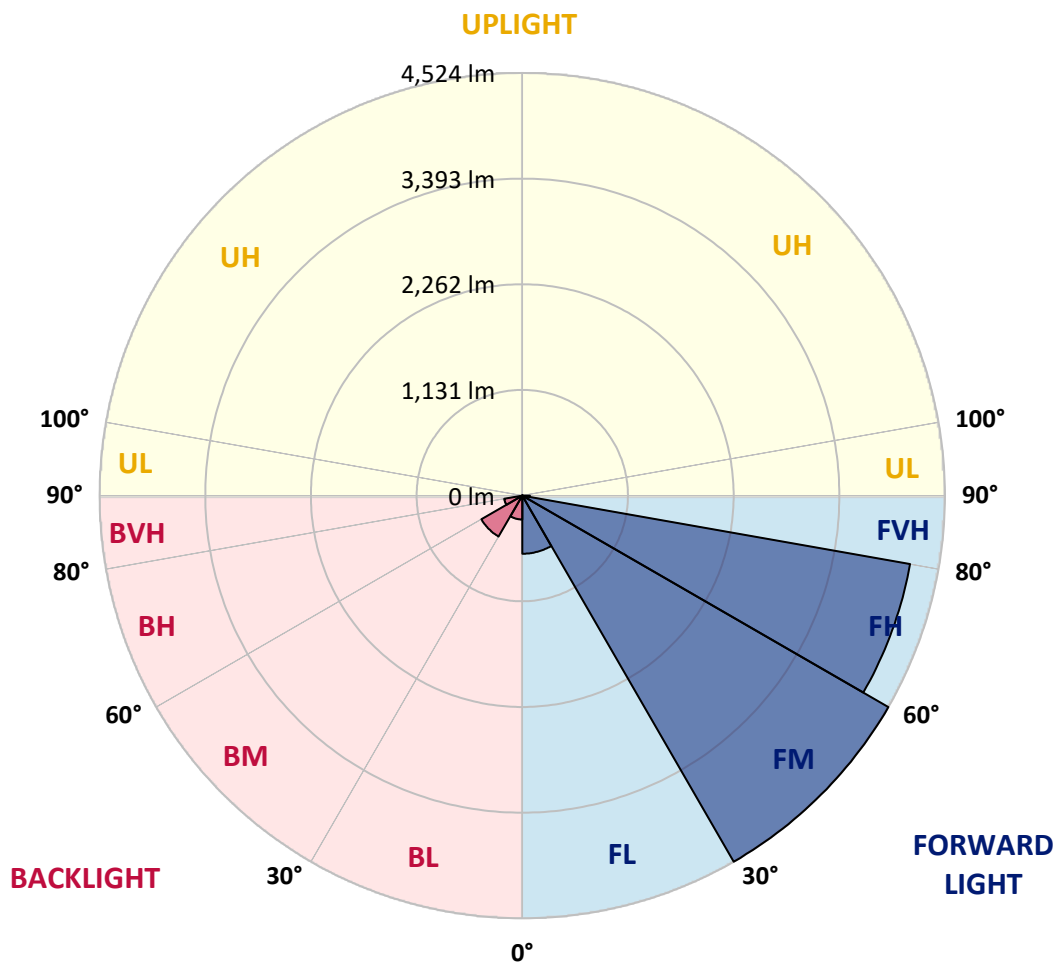
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.0	6.0			
FM	(30°-60°)	4523.6	43.5			
FH	(60°-80°)	4213.5	40.5			G2/5000
FVH	(80°-90°)	81.8	0.8			G1/100
BL	(0°-30°)	255.3	2.5	B1/500		
BM	(30°-60°)	505.5	4.9	B1/1000		
BH	(60°-80°)	196.2	1.9	B1/500		G1/500
BVH	(80°-90°)	1.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8
2.5°	1089.4	1084.6	1082.3	1069.5	1060.0	1048.1	1048.1	1033.0	1015.5	996.4	979.0
5°	1211.0	1203.0	1192.7	1181.6	1159.3	1127.6	1127.6	1095.8	1059.2	1026.6	990.9
7.5°	1327.8	1320.6	1303.2	1281.7	1245.2	1211.8	1209.4	1163.3	1119.6	1070.3	1019.5
10°	1430.3	1424.7	1409.6	1368.3	1330.2	1286.5	1285.7	1234.0	1183.2	1122.8	1060.0
12.5°	1501.8	1502.6	1482.7	1443.0	1393.7	1352.4	1349.3	1298.4	1245.2	1180.0	1102.9
15°	1552.7	1552.7	1532.0	1487.5	1443.0	1406.5	1403.3	1358.8	1304.0	1233.2	1149.8
17.5°	1567.0	1571.7	1549.5	1509.8	1474.0	1442.2	1441.4	1404.1	1360.4	1292.0	1197.5
20°	1561.4	1566.2	1548.7	1517.7	1493.1	1474.8	1472.4	1457.3	1416.8	1352.4	1248.3
22.5°	1549.5	1554.3	1541.5	1523.3	1511.4	1516.9	1512.9	1525.7	1504.2	1426.3	1308.7
25°	1551.9	1556.6	1547.1	1536.8	1547.1	1581.3	1591.6	1646.4	1627.4	1520.1	1373.9
27.5°	1626.6	1636.1	1622.6	1627.4	1663.9	1743.4	1763.2	1857.8	1773.6	1639.3	1475.6
30°	1792.6	1786.3	1760.9	1783.9	1911.0	2079.5	2073.9	2058.8	1926.9	1776.8	1596.4
32.5°	1943.6	1938.1	1936.5	2035.8	2266.2	2348.1	2344.1	2197.9	2064.4	1934.1	1715.6
35°	2004.8	1983.4	1978.6	2219.3	2604.7	2496.7	2472.0	2255.1	2231.3	2105.7	1837.1
37.5°	2189.2	2174.1	2100.2	2249.5	2469.7	2433.9	2414.8	2353.6	2409.3	2257.5	1974.6
40°	2569.0	2526.9	2460.1	2313.9	2278.2	2293.2	2312.3	2480.0	2619.8	2464.9	2158.2
42.5°	3041.0	3031.4	2907.5	2634.9	2367.1	2387.8	2412.4	2743.8	2922.6	2777.2	2457.7
45°	3607.5	3621.0	3442.3	3120.4	2769.2	2786.7	2822.5	3133.2	3332.6	3262.7	2928.9
47.5°	4122.4	4112.1	4051.7	3717.2	3393.0	3354.1	3412.1	3633.0	3900.0	3911.1	3513.8
50°	4640.5	4695.4	4605.6	4474.5	4233.7	4151.8	4130.4	4238.5	4645.3	4592.1	4216.2
52.5°	5385.1	5413.7	5245.2	5211.9	5266.7	5001.3	4979.8	5006.1	5370.0	5187.2	4742.2
55°	5853.1	5836.4	5773.6	6034.3	6251.2	5919.9	5892.8	5787.2	5971.5	5607.6	5248.4
57.5°	6000.9	6024.7	6171.0	6642.2	7155.5	6874.2	6824.9	6524.6	6405.4	5999.3	5714.1
60°	5935.0	5978.7	6294.1	6995.0	7706.9	7664.8	7622.7	7118.1	6716.9	6326.7	6040.6
62.5°	5465.3	5526.5	6031.1	6932.2	7893.7	8156.7	8104.2	7488.4	6924.2	6485.6	6097.8
65°	4580.1	4625.4	5350.1	6362.5	7628.3	8325.1	8306.1	7604.4	6956.8	6340.2	5706.1
67.5°	3265.1	3419.2	4090.7	5362.0	6843.2	8037.5	8070.1	7465.4	6650.9	5711.7	4725.6
70°	2052.5	2157.4	2638.9	3838.8	5486.0	7051.4	7158.7	6828.9	5772.1	4452.2	3163.3
72.5°	979.0	1056.8	1400.1	2429.9	3872.1	5548.0	5633.0	5606.0	4463.3	2805.0	1632.1
75°	436.2	465.6	668.3	1240.4	2499.8	3729.1	3949.2	3985.8	2789.1	1372.3	634.9
77.5°	222.5	223.3	313.1	600.7	1248.3	2224.9	2268.6	2396.5	1512.1	604.7	220.9
80°	118.4	126.3	166.1	283.7	647.6	1095.8	1090.2	1198.3	670.7	296.4	73.9
82.5°	53.2	58.8	93.8	148.6	316.3	415.6	448.2	490.3	287.6	189.1	32.6
85°	15.9	19.1	46.1	74.7	114.4	120.0	134.3	173.2	162.9	134.3	16.7
87.5°	2.4	2.4	19.1	20.7	16.7	21.5	22.2	24.6	52.4	49.3	8.7
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°	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8
2.5°	969.4	963.9	944.0	927.3	913.0	904.3	893.9	887.6	884.4	882.0	882.8
5°	973.4	959.9	925.7	898.7	878.0	855.8	840.7	832.0	828.0	821.6	821.6
7.5°	995.6	974.2	926.5	885.2	849.4	819.2	790.6	780.3	773.2	771.6	770.0
10°	1027.4	1000.4	935.3	878.0	827.2	785.9	745.3	709.6	681.8	665.1	662.7
12.5°	1067.2	1028.2	948.8	873.3	808.1	735.0	627.7	555.4	507.0	491.9	494.2
15°	1103.7	1061.6	962.3	869.3	773.2	609.5	487.9	405.3	380.6	378.2	379.0
17.5°	1147.4	1097.4	978.2	863.7	677.0	465.6	362.3	340.1	344.9	352.8	352.0
20°	1192.7	1135.5	997.2	830.4	540.3	350.4	320.2	322.6	329.8	336.9	338.5
22.5°	1241.2	1179.2	1019.5	750.1	412.4	305.1	303.5	306.7	313.9	321.8	323.4
25°	1307.9	1234.0	1036.2	645.2	312.3	282.1	285.3	290.8	297.2	305.9	307.5
27.5°	1393.7	1307.9	1044.9	508.6	270.2	261.4	262.2	270.2	278.1	286.1	286.1
30°	1505.0	1396.1	1027.4	384.6	249.5	241.6	238.4	243.2	253.5	261.4	262.2
32.5°	1604.3	1479.6	981.3	294.0	234.4	223.3	215.3	216.1	220.1	224.9	225.7
35°	1703.6	1560.6	902.7	247.1	218.5	205.8	193.9	187.5	184.3	182.0	184.3
37.5°	1830.8	1661.5	797.8	224.9	205.0	189.1	172.4	158.9	147.8	140.6	142.2
40°	1994.5	1801.4	673.8	210.6	192.3	173.2	151.0	133.5	114.4	108.1	104.9
42.5°	2264.6	2013.5	543.5	198.7	179.6	156.5	128.7	104.9	87.4	81.1	82.6
45°	2691.3	2281.3	418.8	185.9	166.9	138.3	108.1	82.6	68.3	65.2	66.7
47.5°	3257.1	2627.8	322.6	171.6	151.0	118.4	85.0	65.2	56.4	55.6	54.8
50°	3789.5	2950.4	269.4	155.7	131.9	98.5	69.9	54.8	49.3	48.5	48.5
52.5°	4271.0	3181.6	219.3	137.5	111.2	81.1	58.8	48.5	43.7	41.3	41.3
55°	4699.3	3332.6	178.0	115.2	87.4	64.4	50.9	43.7	38.1	35.0	34.2
57.5°	5022.7	3350.9	133.5	92.2	65.2	50.1	43.7	38.1	31.8	27.8	26.2
60°	5161.0	3192.7	98.5	69.9	48.5	39.7	35.0	31.0	23.8	19.9	19.1
62.5°	5021.9	2885.2	73.1	53.2	37.3	29.4	24.6	23.0	16.7	11.9	11.1
65°	4523.7	2441.0	58.0	40.5	27.8	21.5	15.9	15.1	10.3	5.6	4.8
67.5°	3624.2	1911.8	46.1	30.2	19.9	14.3	10.3	9.5	5.6	1.6	1.6
70°	2356.8	1222.1	37.3	22.2	12.7	9.5	6.4	4.8	3.2	0.8	0.0
72.5°	1165.7	571.3	30.2	17.5	8.7	4.8	2.4	1.6	2.4	0.0	0.0
75°	452.1	203.4	22.2	11.9	4.8	2.4	1.6	0.0	0.8	0.0	0.0
77.5°	150.2	67.5	13.5	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
80°	55.6	26.2	7.2	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.2	10.3	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.1	6.4	3.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.8	3.2	2.4	1.6	0.8	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)