

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: P450904

Luminaire Tested: **GLAN-SA1D-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6584 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

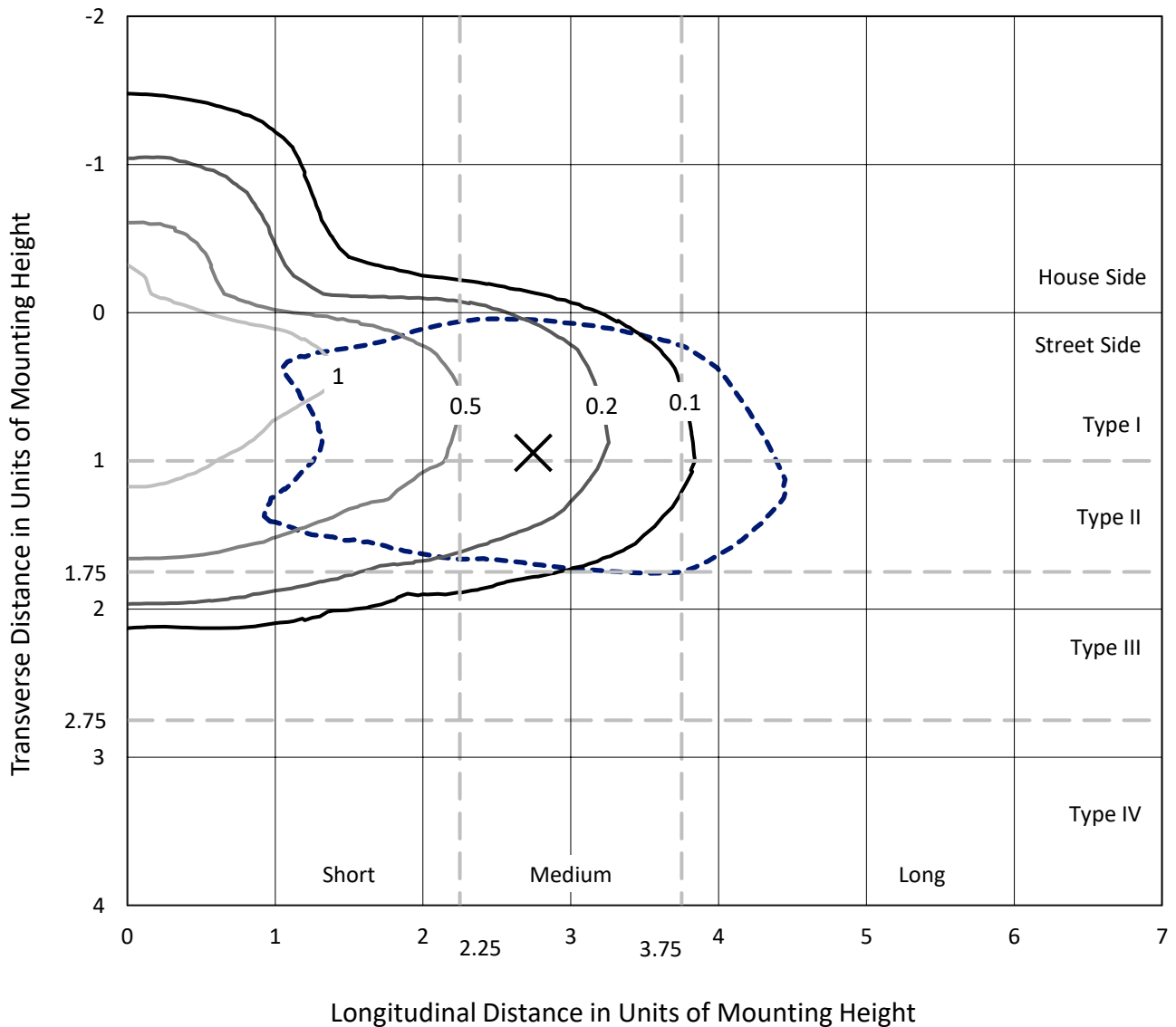
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

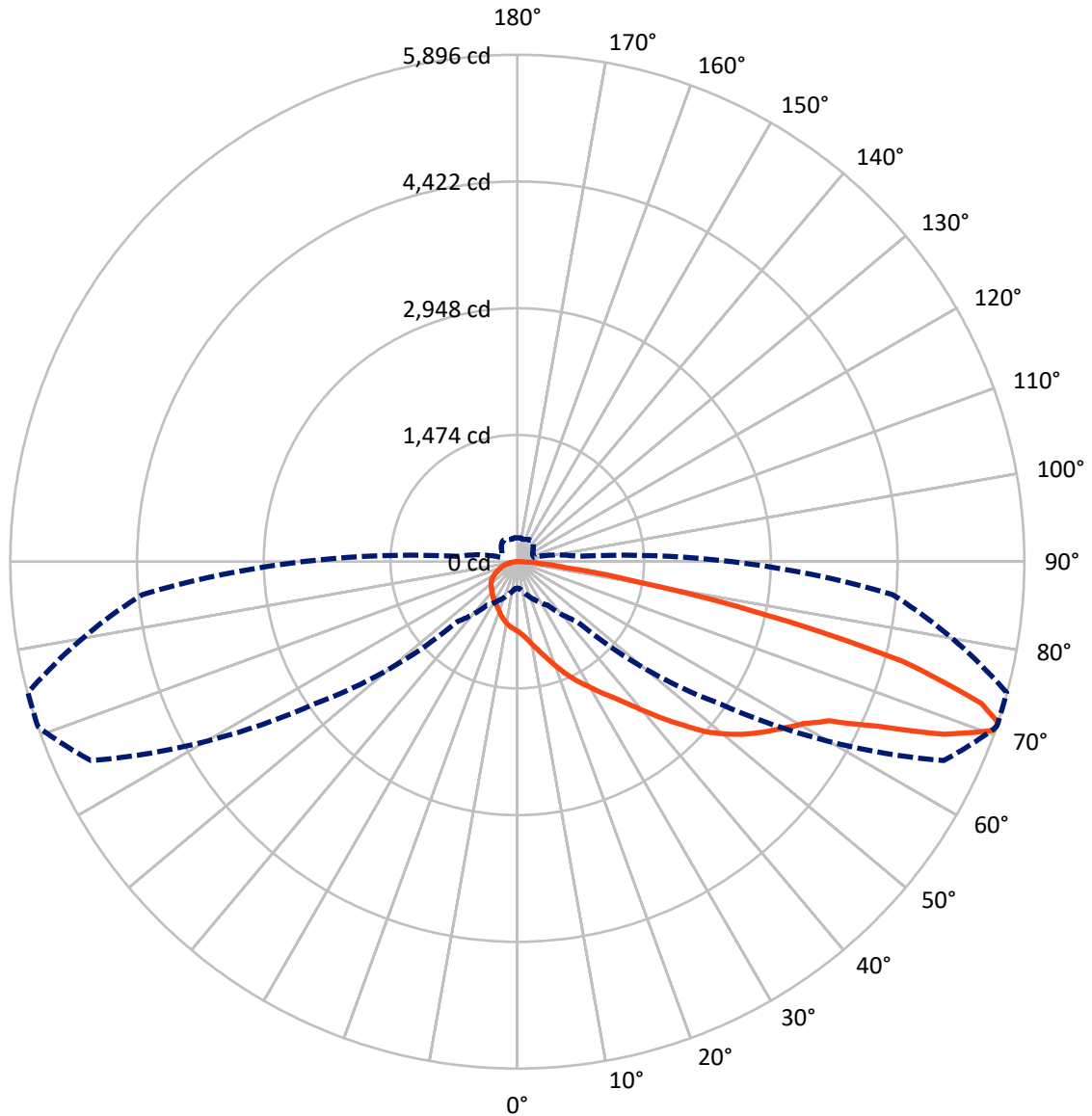
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1184.1	0.0	1184.1
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	5399.9	0.0	5399.9
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	6584.0	0.0	6584.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	1.2
10°-20°	263.6	4.0
20°-30°	460.7	7.0
30°-40°	685.2	10.4
40°-50°	1009.5	15.3
50°-60°	1413.3	21.5
60°-70°	1580.8	24.0
70°-80°	965.6	14.7
80°-90°	124.2	1.9
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°	6584.0	100.0
0°-180°	6584.0	100.0

**Coefficient of Utilization**



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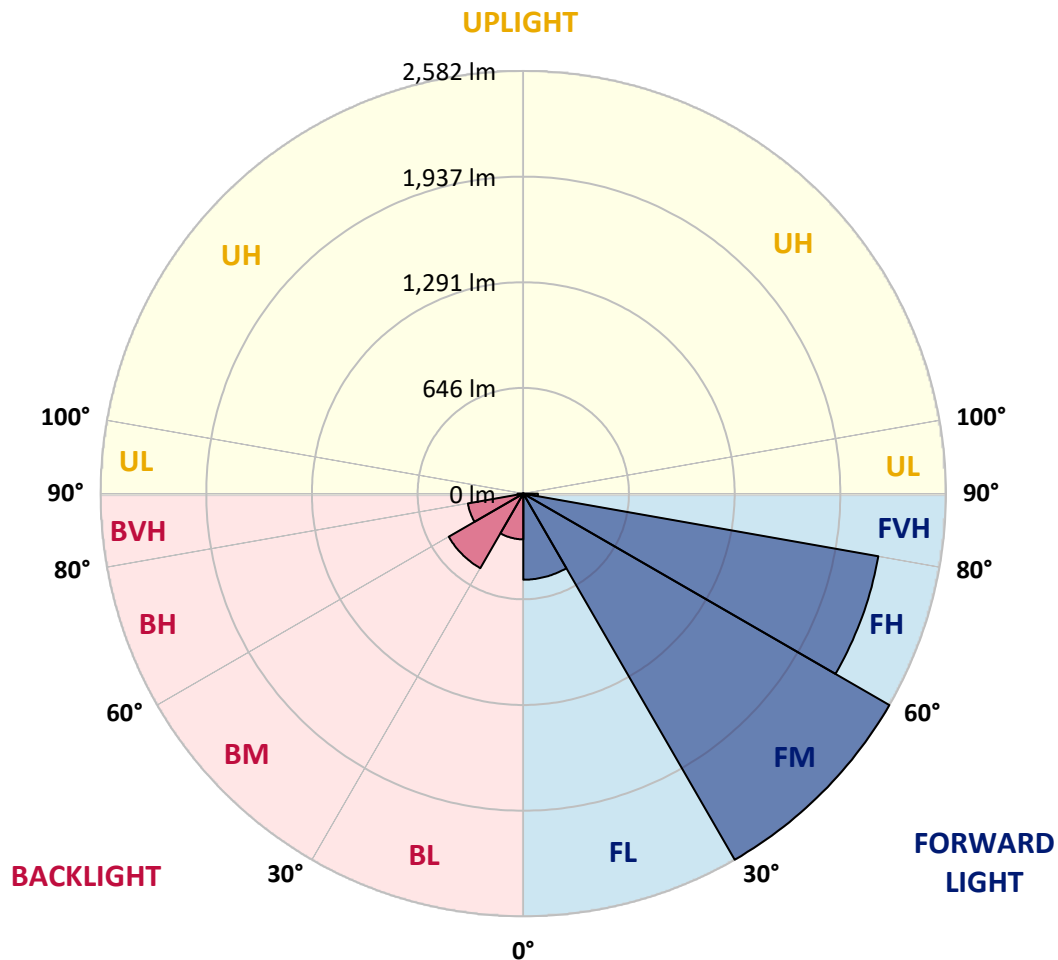
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.1	8.0			
FM (30°-60°)	2582.1	39.2			
FH (60°-80°)	2202.3	33.4			G2/5000
FVH (80°-90°)	89.4	1.4			G1/100
BL (0°-30°)	279.3	4.2	B1/500		
BM (30°-60°)	525.9	8.0	B1/1000		
BH (60°-80°)	344.0	5.2	B1/500		G1/500
BVH (80°-90°)	34.8	0.5			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	897.1	892.7	893.1	886.9	879.0	870.3	858.0	847.1	838.5	833.4	818.6
5°	994.1	989.7	984.3	970.9	965.1	943.8	916.6	892.0	873.2	862.7	833.0
7.5°	1072.6	1071.5	1070.1	1062.5	1047.6	1017.9	994.8	952.1	924.2	904.3	853.7
10°	1121.1	1122.9	1124.0	1125.4	1119.3	1103.7	1071.9	1017.9	982.5	957.1	880.4
12.5°	1145.7	1147.5	1153.6	1167.0	1175.4	1173.5	1147.5	1094.7	1045.8	1012.5	909.0
15°	1160.9	1163.8	1174.6	1192.4	1220.2	1238.0	1225.3	1176.4	1122.9	1083.4	943.0
17.5°	1177.5	1180.8	1192.7	1218.1	1254.6	1293.0	1306.7	1264.7	1206.5	1159.4	981.0
20°	1186.9	1191.3	1208.3	1241.6	1284.3	1340.0	1385.6	1363.5	1299.8	1247.7	1024.8
22.5°	1202.1	1205.8	1220.2	1255.7	1306.7	1376.6	1464.5	1459.8	1403.7	1336.4	1072.9
25°	1243.4	1249.2	1256.4	1277.8	1327.0	1413.8	1530.0	1562.6	1504.3	1429.0	1117.1
27.5°	1321.2	1325.9	1325.5	1328.4	1356.3	1446.0	1586.8	1664.2	1604.2	1522.7	1159.8
30°	1409.8	1411.7	1413.1	1406.6	1412.7	1479.0	1638.9	1764.8	1704.8	1619.0	1197.1
32.5°	1517.7	1521.3	1509.0	1492.4	1487.3	1527.8	1682.0	1865.4	1823.8	1716.7	1234.0
35°	1645.1	1654.5	1629.5	1600.2	1579.6	1598.0	1739.9	1968.2	1945.8	1841.6	1282.8
37.5°	1790.5	1802.1	1779.0	1721.4	1692.1	1697.2	1815.5	2095.2	2099.9	1983.8	1355.6
40°	1909.6	1924.8	1925.5	1844.1	1799.6	1805.4	1911.4	2232.0	2285.9	2159.6	1441.3
42.5°	1988.1	2003.0	2018.5	1970.7	1924.1	1957.0	2023.2	2380.4	2495.1	2373.1	1561.1
45°	2074.2	2087.6	2096.3	2074.6	2048.5	2133.9	2158.2	2538.2	2718.0	2611.6	1692.1
47.5°	2174.1	2189.0	2197.3	2176.6	2166.9	2289.2	2303.7	2685.4	2956.1	2843.2	1836.9
50°	2307.3	2318.5	2314.2	2301.1	2299.0	2408.2	2443.3	2823.3	3152.6	3092.5	1987.0
52.5°	2473.0	2486.4	2491.1	2472.7	2464.3	2493.3	2555.9	2948.9	3331.4	3306.8	2147.3
55°	2573.3	2594.6	2666.3	2695.2	2715.1	2603.3	2677.1	3087.5	3491.7	3532.6	2319.6
57.5°	2444.8	2472.3	2632.6	2777.4	2964.4	2878.3	2849.0	3232.2	3652.0	3751.5	2525.9
60°	2131.4	2137.6	2344.2	2610.9	2987.2	3231.9	3207.6	3462.4	3825.7	3972.2	2797.6
62.5°	1478.6	1491.6	1735.9	2161.5	2705.7	3359.2	3817.7	3859.7	4074.7	4302.6	3196.0
65°	762.5	745.5	968.0	1358.5	2039.9	3056.7	4312.0	4590.3	4614.6	4819.4	3756.9
67.5°	469.3	476.9	581.2	793.2	1206.1	2221.5	4260.3	5483.1	5355.3	5453.7	4277.7
70°	352.5	361.9	433.5	542.8	735.3	1270.2	3426.2	5699.5	5877.9	5852.5	4436.2
71°	306.5	316.3	390.8	494.0	617.7	980.3	2886.6	5472.9	5896.0	5891.6	4376.5
72.5°	261.3	267.4	325.7	418.3	520.7	687.2	2168.7	4908.4	5644.5	5788.8	4163.3
75°	205.2	209.9	235.9	319.2	410.0	421.9	1163.8	3679.9	4635.9	4910.9	3466.0
77.5°	167.2	170.4	183.8	237.0	316.3	298.9	610.5	2395.2	2904.4	3181.2	2041.7
80°	132.8	136.4	144.4	160.7	237.0	213.1	291.3	1213.7	1403.0	1400.1	814.9
82.5°	103.1	104.2	113.6	118.0	162.1	151.3	157.8	513.9	569.2	588.0	294.2
85°	65.1	68.4	100.6	90.5	97.0	88.7	77.8	204.1	251.5	247.9	117.6
87.5°	19.9	21.0	34.0	38.4	43.1	38.7	28.6	60.1	73.5	79.6	29.3
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°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	812.8	808.8	794.7	783.1	772.2	760.3	750.2	747.3	744.7	743.6	743.3
5°	820.4	808.4	780.6	757.8	739.7	723.0	712.5	707.8	703.1	703.1	704.6
7.5°	831.2	809.5	766.4	732.4	709.6	694.1	686.5	685.7	686.8	687.9	688.3
10°	843.2	808.8	745.8	703.5	683.2	676.0	676.3	682.5	688.3	692.6	693.3
12.5°	854.7	804.4	721.6	676.3	663.3	664.8	674.9	688.6	699.9	706.0	706.4
15°	867.8	797.6	692.3	650.6	646.3	657.5	676.3	697.3	714.3	724.5	725.5
17.5°	878.6	786.0	661.5	625.7	631.1	651.7	677.8	704.9	725.5	738.2	740.4
20°	890.9	771.1	629.7	601.8	617.4	645.2	674.9	704.2	725.5	737.9	740.7
22.5°	900.7	750.2	599.3	582.2	605.0	637.3	665.1	688.6	706.0	712.5	716.9
25°	904.7	723.7	570.7	566.3	595.3	624.2	643.0	656.4	661.9	661.1	662.9
27.5°	902.5	693.3	546.1	553.7	583.0	604.0	613.4	612.3	602.5	593.5	597.8
30°	893.5	657.2	525.4	540.6	567.1	578.6	577.2	563.1	544.6	527.6	528.7
32.5°	877.2	618.1	506.3	525.8	544.6	549.7	539.9	521.5	495.0	473.0	469.7
35°	863.4	580.8	489.2	508.8	522.2	519.6	510.2	486.4	462.5	442.9	439.7
37.5°	861.3	549.0	473.0	489.6	497.2	493.6	482.0	461.7	453.1	438.2	436.4
40°	872.8	526.5	456.3	469.3	473.0	470.1	457.4	445.8	453.8	450.2	450.2
42.5°	904.3	514.6	441.5	449.1	452.0	454.1	445.1	435.3	445.1	428.5	423.0
45°	954.3	514.9	428.1	429.2	437.9	445.5	439.3	424.8	419.8	386.5	380.0
47.5°	1027.7	527.2	417.2	410.4	425.9	438.6	429.9	408.9	386.5	364.4	360.4
50°	1113.5	549.3	407.5	390.8	410.0	429.9	423.4	398.8	375.6	362.2	359.7
52.5°	1208.6	577.2	395.5	369.1	390.5	425.9	424.8	397.3	365.5	356.4	354.3
55°	1326.3	604.7	380.7	343.8	373.1	422.7	420.9	385.4	363.3	356.8	356.1
57.5°	1463.0	644.5	359.3	318.1	353.2	409.3	405.3	378.2	356.1	351.4	351.0
60°	1683.4	706.4	328.9	294.6	332.9	385.8	390.8	365.9	344.5	343.4	343.1
62.5°	1973.3	793.2	297.5	270.3	309.4	355.4	369.8	349.2	332.2	337.6	338.3
65°	2373.5	866.3	264.9	249.7	283.3	326.0	349.9	333.6	318.4	328.9	328.9
67.5°	2634.4	867.8	235.2	228.3	256.9	301.4	328.9	315.2	300.7	318.4	319.2
70°	2580.1	760.3	210.6	205.9	231.2	275.0	305.8	294.9	278.3	294.2	288.4
71°	2492.6	700.6	200.8	197.2	221.1	262.4	294.9	285.9	269.2	279.7	276.5
72.5°	2352.9	608.3	184.9	185.6	205.9	246.4	279.7	270.3	253.7	259.5	258.4
75°	1988.8	531.2	158.1	161.4	177.0	219.3	249.3	242.1	225.1	225.1	224.0
77.5°	1243.4	371.3	131.4	133.2	150.2	187.8	214.2	208.1	191.8	186.4	184.9
80°	463.9	191.8	102.8	104.9	115.4	148.0	177.3	171.5	154.9	148.7	142.9
82.5°	175.5	96.3	75.6	73.8	85.0	112.9	139.0	132.1	119.1	104.2	99.9
85°	66.2	47.8	46.3	44.9	49.9	66.9	86.1	84.7	70.9	60.4	59.3
87.5°	17.4	15.6	18.1	13.4	14.1	12.7	13.0	5.4	2.5	1.1	0.7
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)