

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: P318095

Luminaire Tested: **GAN-SA1D-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7972 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

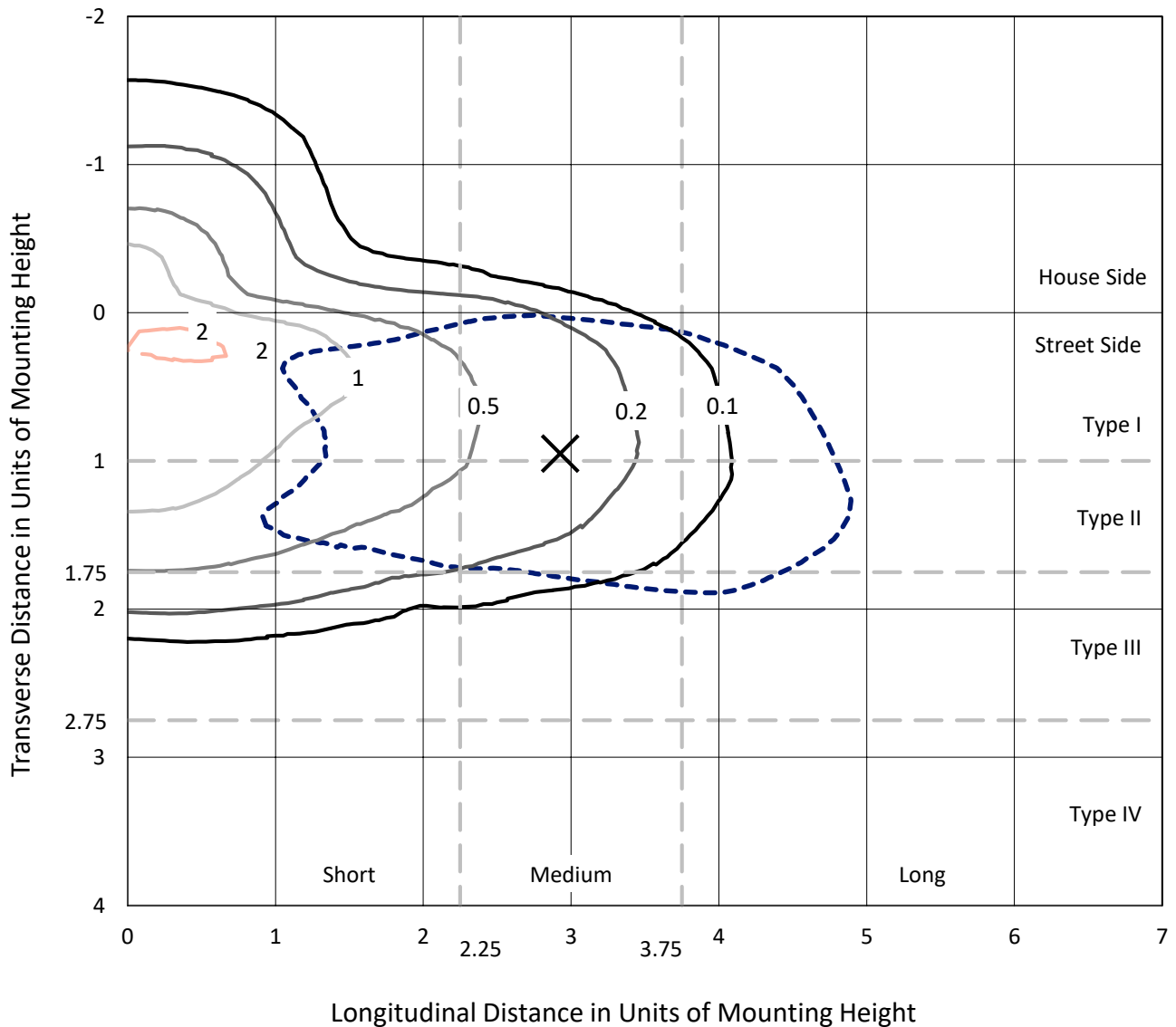
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

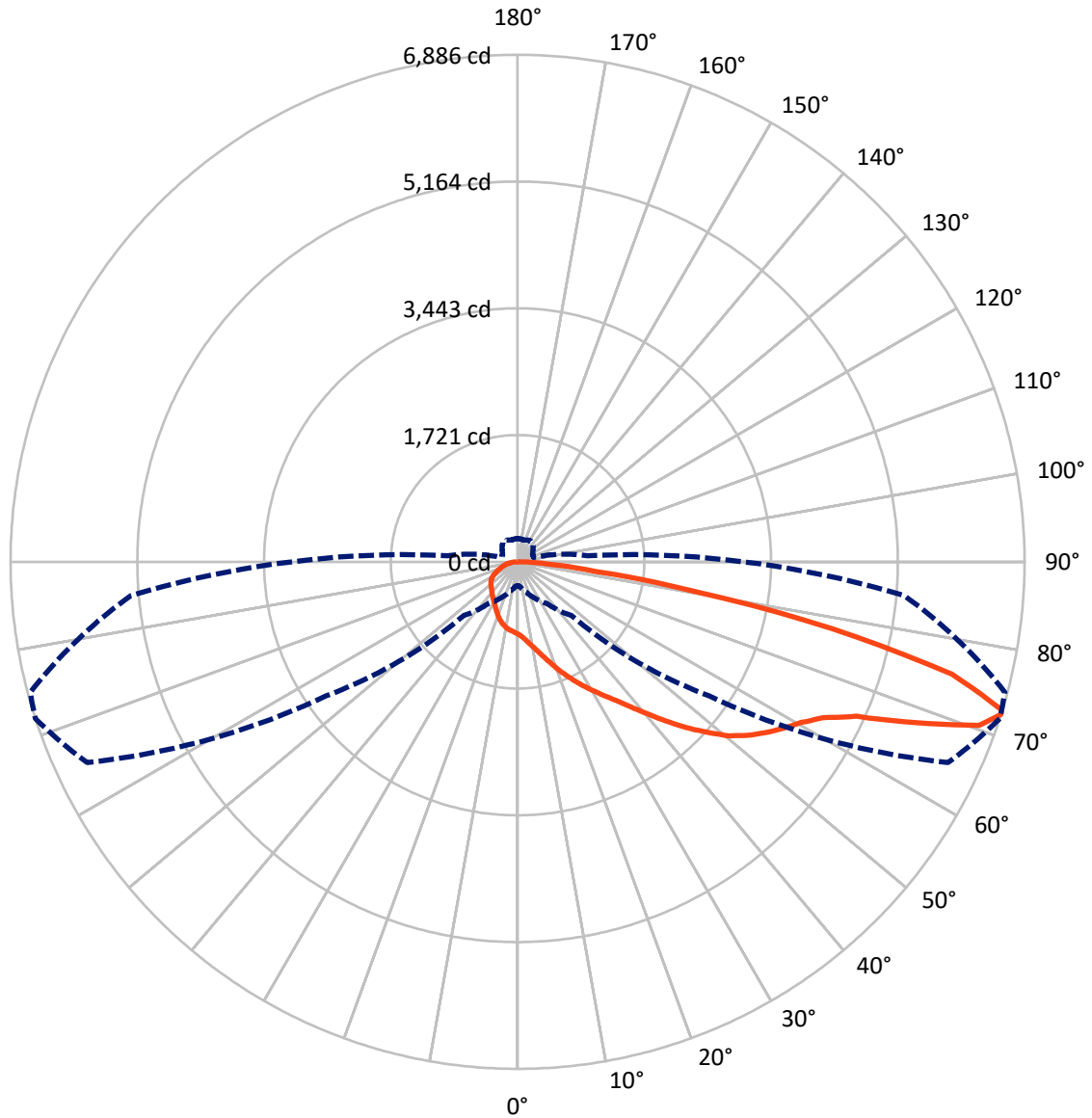
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.9	0.0	1478.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6493.1	0.0	6493.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	7972.0	0.0	7972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.2
10°-20°	317.6	4.0
20°-30°	556.5	7.0
30°-40°	825.1	10.4
40°-50°	1206.8	15.1
50°-60°	1660.5	20.8
60°-70°	1848.7	23.2
70°-80°	1252.7	15.7
80°-90°	205.9	2.6
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°	7972.0	100.0
0°-180°	7972.0	100.0

Coefficient of Utilization

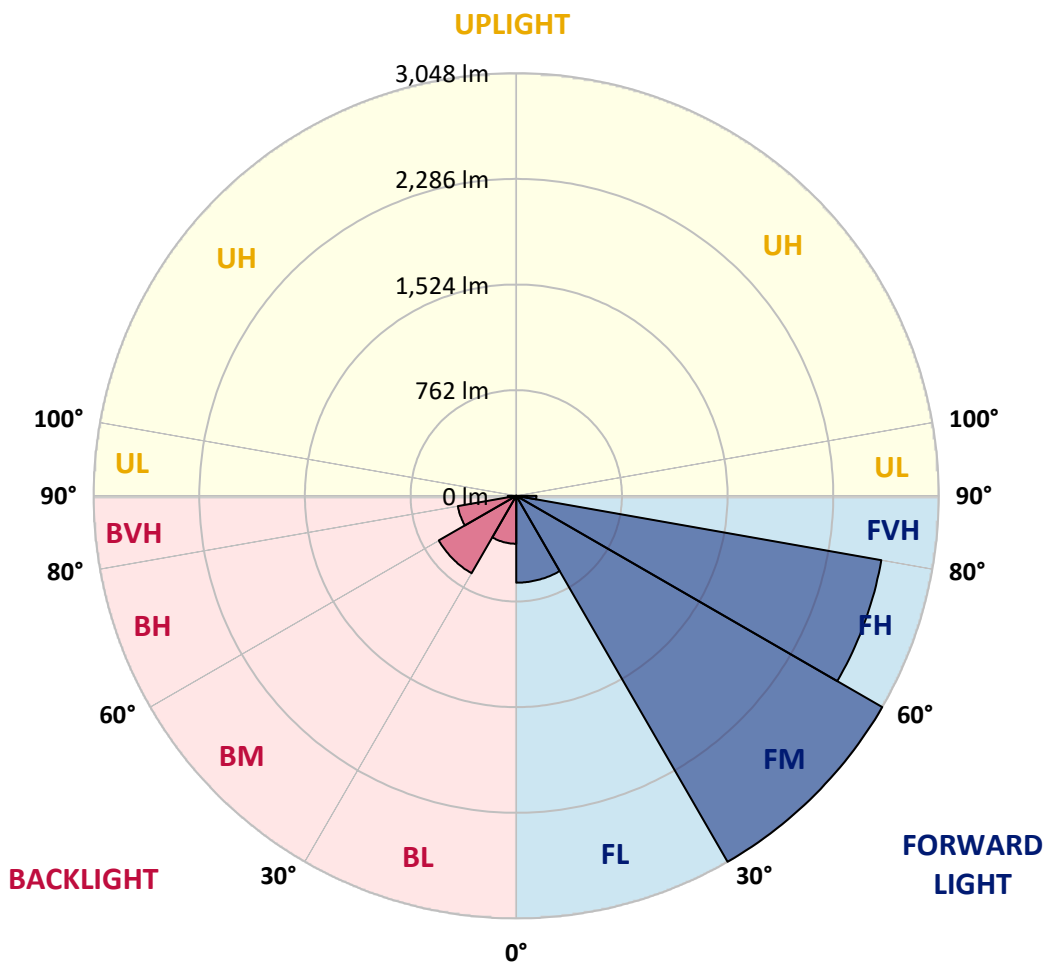


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.6	7.9			
FM (30°-60°)	3047.8	38.2			
FH (60°-80°)	2673.5	33.5			G2/5000
FVH (80°-90°)	145.2	1.8			G2/225
BL (0°-30°)	345.7	4.3	B1/500		
BM (30°-60°)	644.6	8.1	B1/1000		
BH (60°-80°)	427.9	5.4	B1/500		G1/500
BVH (80°-90°)	60.7	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	1083.4	1081.8	1076.0	1076.0	1065.0	1055.7	1038.1	1026.3	1012.3	1007.4	990.9
5°	1188.3	1188.8	1181.7	1176.8	1160.6	1140.8	1110.9	1083.7	1056.5	1045.5	1011.8
7.5°	1276.4	1275.3	1273.4	1269.3	1254.2	1233.8	1193.5	1153.1	1113.1	1096.6	1038.4
10°	1332.9	1335.4	1337.1	1339.0	1332.7	1318.1	1280.0	1230.8	1178.4	1155.9	1070.2
12.5°	1361.5	1365.9	1373.6	1386.7	1397.2	1395.5	1367.8	1315.6	1253.3	1225.1	1110.1
15°	1378.2	1384.0	1396.1	1419.7	1449.0	1465.8	1458.4	1411.2	1341.7	1306.9	1158.6
17.5°	1388.7	1393.3	1412.0	1443.6	1487.2	1531.7	1551.2	1511.6	1441.6	1401.8	1214.4
20°	1395.8	1399.4	1422.7	1459.8	1516.3	1587.1	1641.5	1631.6	1551.7	1500.1	1272.6
22.5°	1411.7	1414.7	1437.0	1474.3	1536.9	1628.3	1728.5	1743.3	1667.8	1609.4	1334.9
25°	1456.2	1456.2	1474.9	1500.9	1559.7	1664.0	1802.0	1867.7	1786.4	1718.3	1392.5
27.5°	1541.0	1540.2	1547.0	1556.1	1600.6	1700.2	1867.7	1977.4	1909.4	1835.0	1448.5
30°	1641.5	1647.0	1647.8	1643.4	1664.3	1745.5	1928.3	2093.3	2033.2	1953.0	1505.9
32.5°	1770.8	1774.3	1770.2	1755.7	1752.6	1809.7	1987.9	2214.6	2167.1	2076.3	1558.3
35°	1934.9	1928.0	1915.1	1885.5	1857.2	1895.6	2056.0	2335.9	2317.5	2225.3	1630.5
37.5°	2110.9	2111.1	2095.2	2028.0	1989.0	2005.4	2149.8	2473.5	2499.5	2402.6	1723.0
40°	2251.9	2259.4	2269.2	2180.8	2130.3	2153.1	2269.2	2632.9	2714.7	2612.9	1843.5
42.5°	2350.5	2359.0	2387.0	2331.5	2279.1	2321.4	2409.8	2803.1	2956.3	2855.6	1984.6
45°	2454.8	2459.5	2479.2	2455.3	2421.9	2517.1	2568.2	2979.3	3211.8	3114.1	2142.4
47.5°	2564.6	2569.5	2589.8	2573.9	2556.4	2699.9	2733.4	3145.4	3456.7	3398.2	2311.0
50°	2700.2	2703.5	2722.7	2693.9	2699.4	2837.7	2881.1	3297.8	3713.3	3653.5	2480.0
52.5°	2885.2	2886.0	2912.6	2886.6	2860.8	2938.7	3008.2	3441.3	3914.5	3886.3	2649.1
55°	3030.1	3038.9	3126.2	3120.7	3105.9	3030.4	3114.4	3578.0	4094.1	4107.5	2828.7
57.5°	2937.6	2971.9	3148.7	3273.3	3394.7	3258.5	3258.0	3732.0	4261.0	4324.6	3026.0
60°	2572.8	2619.5	2880.0	3156.4	3536.0	3655.4	3556.1	3920.0	4429.5	4539.8	3273.3
62.5°	1837.5	1914.3	2267.3	2708.7	3342.2	3918.4	4162.7	4218.4	4658.7	4789.1	3594.8
65°	928.9	987.1	1283.0	1814.7	2670.3	3746.6	4822.0	4871.7	5057.0	5172.8	4089.7
67.5°	564.4	586.3	730.7	1009.3	1637.1	2918.4	5037.2	5960.6	5827.8	5889.3	4795.4
70°	415.9	432.1	522.1	670.3	941.5	1712.6	4376.8	6737.7	6650.4	6643.6	5316.9
72°	323.9	335.7	415.3	541.6	688.4	1027.4	3172.3	6450.9	6885.9	6851.3	5269.2
72.5°	307.2	317.6	390.1	509.7	650.5	931.4	2852.3	6257.3	6868.9	6853.3	5207.4
75°	241.8	249.2	288.8	394.2	509.2	528.4	1563.0	4849.2	6093.5	6346.8	4683.7
77.5°	200.1	201.2	222.1	286.8	396.9	373.6	767.8	3364.5	4363.3	4642.0	3317.8
80°	163.0	164.4	174.3	201.2	300.3	276.4	364.5	1934.6	2443.0	2446.0	1577.8
82.5°	129.8	130.1	141.1	147.1	215.8	197.6	208.9	908.3	1067.5	1026.9	567.1
85°	91.4	89.5	137.8	120.8	141.1	126.8	115.3	359.6	441.4	422.2	177.6
87.5°	30.5	31.6	61.2	78.2	82.3	71.9	51.3	137.8	166.6	165.2	56.3
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°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	985.7	976.9	964.0	949.7	938.5	927.0	918.5	914.1	909.1	905.0	909.9
5°	996.1	979.7	952.2	925.3	905.6	888.0	875.4	868.8	862.7	858.6	859.2
7.5°	1013.2	986.5	940.4	901.2	873.7	854.8	841.9	837.5	833.6	832.5	833.9
10°	1031.3	992.0	924.8	872.6	841.3	825.7	819.9	822.9	825.7	828.1	830.9
12.5°	1051.9	997.0	902.0	839.1	812.5	806.5	812.2	825.4	835.0	840.8	844.3
15°	1078.8	1001.4	875.6	805.6	787.8	794.7	814.1	836.9	853.7	864.4	866.0
17.5°	1103.5	1001.1	841.9	771.9	767.8	787.8	817.2	849.3	871.8	886.9	889.9
20°	1129.0	993.7	802.6	738.9	747.4	780.4	818.5	857.2	884.4	902.0	906.1
22.5°	1152.9	980.8	759.5	709.0	730.4	770.5	813.3	852.6	879.8	894.0	898.4
25°	1169.1	958.3	715.9	683.8	715.3	758.4	796.3	827.9	848.2	855.3	856.4
27.5°	1177.3	928.9	674.7	661.8	699.7	738.7	764.7	780.4	786.1	785.6	784.5
30°	1178.4	890.2	639.3	644.0	681.6	709.6	721.9	718.9	711.5	698.9	700.0
32.5°	1174.8	846.5	609.6	626.9	658.5	674.2	674.7	660.2	640.4	620.4	614.9
35°	1175.9	803.7	583.6	607.7	630.5	637.4	631.1	609.6	582.7	556.9	551.5
37.5°	1188.0	766.4	561.1	585.5	599.5	601.1	592.1	569.6	549.8	524.6	522.4
40°	1216.8	739.8	539.7	560.5	568.5	569.3	556.4	540.5	542.1	528.7	528.4
42.5°	1268.7	728.2	520.7	534.4	539.4	541.0	531.1	521.0	535.3	526.5	523.5
45°	1335.7	731.0	504.8	508.9	518.0	525.7	519.6	507.3	512.8	474.6	462.0
47.5°	1413.1	748.5	492.2	487.0	502.6	517.1	507.8	489.1	469.7	431.8	424.6
50°	1503.7	775.7	480.6	465.3	485.9	505.6	496.3	469.7	440.3	421.9	419.4
52.5°	1598.1	808.9	469.1	441.4	464.7	496.8	492.2	465.3	429.0	410.9	407.6
55°	1705.2	842.4	454.6	413.7	441.9	492.7	490.2	449.3	420.5	410.4	407.9
57.5°	1838.3	880.6	435.3	384.8	420.5	477.9	470.2	439.7	411.7	404.1	403.2
60°	2011.8	936.8	407.6	354.1	394.4	455.1	453.5	425.7	397.7	392.3	391.2
62.5°	2272.0	1029.9	369.5	323.4	365.4	416.4	431.5	406.8	382.9	382.6	383.2
65°	2675.5	1169.9	328.0	296.5	336.0	383.7	406.0	387.3	367.8	373.3	374.1
67.5°	3143.2	1286.0	287.4	270.1	306.1	352.7	382.9	367.8	347.8	362.1	362.3
70°	3298.9	1182.2	251.7	244.0	275.0	322.8	357.9	346.4	326.1	340.4	339.0
72°	3069.9	954.4	228.7	224.3	251.7	298.1	335.7	326.4	306.3	315.9	312.4
72.5°	2997.7	909.9	222.9	219.3	245.4	291.8	329.9	321.4	301.4	309.6	306.3
75°	2674.1	790.3	191.6	192.4	214.1	261.0	297.6	294.8	274.2	275.0	273.9
77.5°	1939.6	579.5	161.4	166.9	182.3	229.5	264.9	263.2	240.7	236.6	235.8
80°	900.1	295.6	131.5	134.0	149.9	191.9	225.9	223.7	205.6	200.4	197.4
82.5°	308.3	140.5	98.8	100.5	116.1	154.5	196.0	194.6	179.5	169.4	163.0
85°	110.1	70.0	69.2	67.5	82.9	121.6	170.7	163.3	141.1	120.2	119.7
87.5°	35.7	29.9	35.7	35.4	48.3	82.3	124.1	105.7	102.4	85.1	83.4
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)