

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: P458624

Luminaire Tested: **GLAN-SA1D-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7462 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

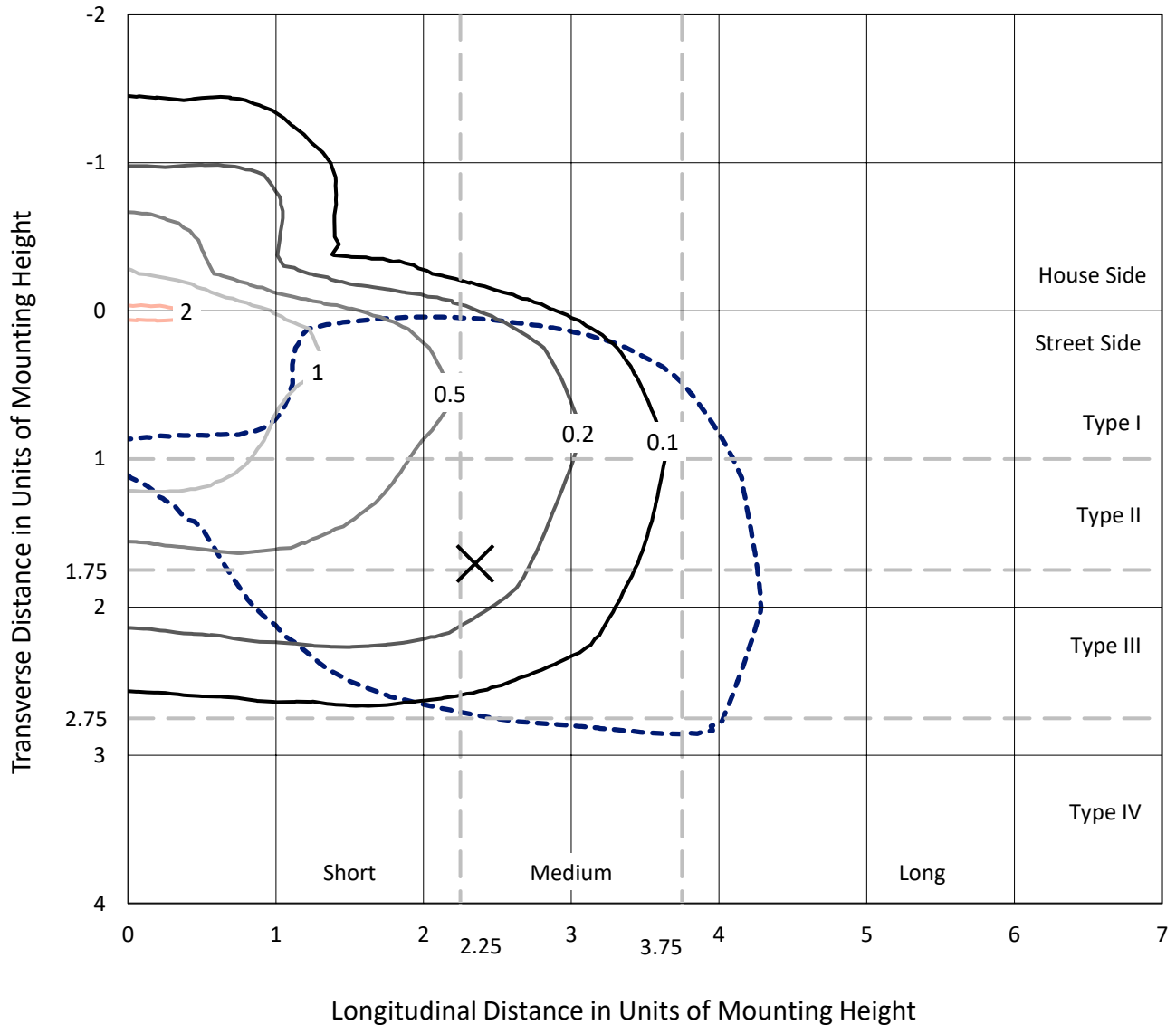
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

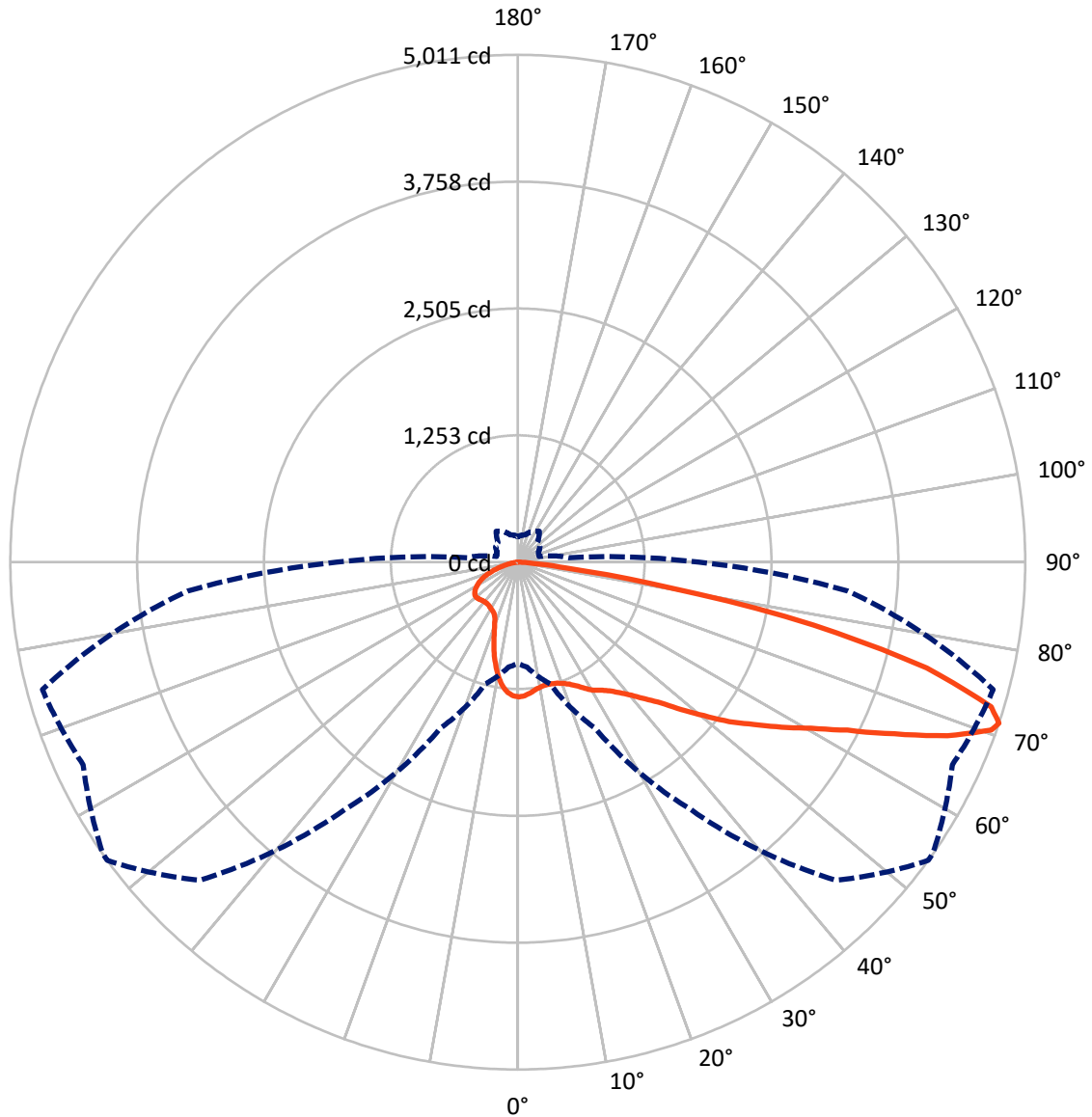
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.2	0.0	1347.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6114.8	0.0	6114.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	7462.0	0.0	7462.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.6
10°-20°	313.3	4.2
20°-30°	521.6	7.0
30°-40°	771.3	10.3
40°-50°	1086.4	14.6
50°-60°	1454.7	19.5
60°-70°	1833.6	24.6
70°-80°	1252.3	16.8
80°-90°	110.1	1.5
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°	7462.0	100.0
0°-180°	7462.0	100.0



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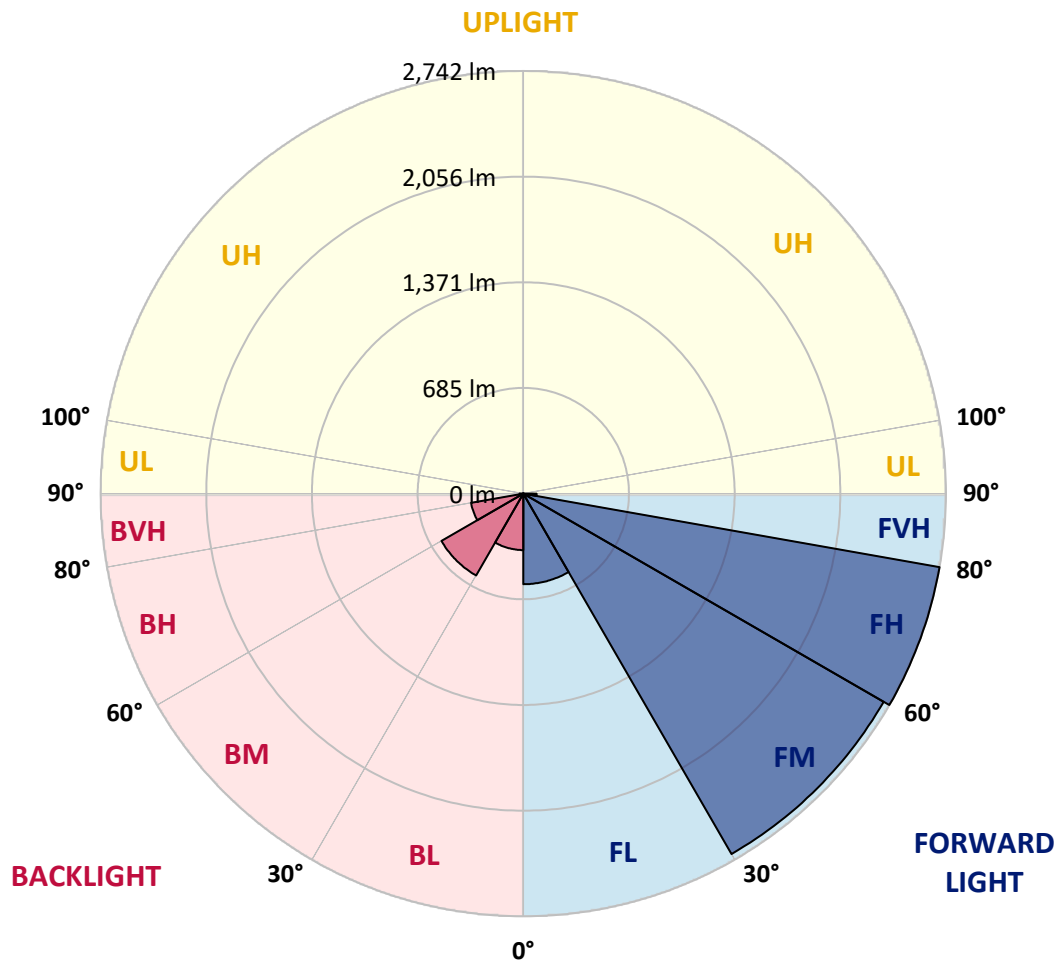
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.4	7.9			
FM (30°-60°)	2699.5	36.2			
FH (60°-80°)	2741.8	36.7			G2/5000
FVH (80°-90°)	86.1	1.2			G1/100
BL (0°-30°)	366.1	4.9	B1/500		
BM (30°-60°)	612.9	8.2	B1/1000		
BH (60°-80°)	344.1	4.6	B1/500		G1/500
BVH (80°-90°)	24.0	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3
2.5°	1286.2	1292.2	1293.8	1297.9	1306.3	1313.2	1320.0	1319.2	1328.9	1332.9	1336.6
5°	1229.0	1230.6	1236.6	1244.7	1259.6	1278.5	1297.1	1297.5	1321.3	1340.2	1349.5
7.5°	1187.0	1192.3	1196.3	1204.8	1220.5	1241.0	1270.5	1272.9	1315.2	1352.7	1372.4
10°	1159.6	1165.7	1170.1	1180.6	1196.3	1219.3	1251.1	1255.6	1310.8	1372.4	1407.1
12.5°	1134.6	1140.7	1144.7	1158.4	1179.0	1207.2	1243.1	1248.3	1312.4	1395.4	1445.0
15°	1150.0	1154.8	1153.2	1157.2	1170.9	1203.2	1246.3	1251.5	1318.4	1417.6	1482.5
17.5°	1218.1	1222.1	1208.8	1193.5	1187.0	1210.8	1256.4	1262.0	1330.5	1440.6	1520.8
20°	1318.4	1329.3	1300.3	1266.0	1235.0	1238.2	1277.3	1283.4	1347.5	1463.5	1559.9
22.5°	1449.0	1457.1	1421.6	1365.2	1308.0	1278.5	1308.8	1312.4	1372.8	1493.4	1602.6
25°	1602.6	1607.4	1558.3	1485.7	1403.1	1347.5	1351.9	1358.3	1414.8	1527.2	1640.5
27.5°	1751.7	1767.0	1710.2	1621.5	1512.7	1420.0	1411.1	1415.2	1460.3	1546.2	1666.7
30°	1928.7	1927.5	1867.4	1764.6	1625.2	1499.0	1467.2	1466.4	1484.9	1555.4	1685.6
32.5°	2069.8	2086.3	2027.4	1915.4	1753.7	1580.8	1505.9	1504.2	1503.8	1571.6	1713.8
35°	2230.2	2232.6	2178.6	2065.7	1892.8	1683.6	1559.9	1551.8	1542.5	1606.2	1752.1
37.5°	2373.7	2384.9	2335.4	2208.8	2029.4	1790.4	1634.0	1628.8	1600.6	1666.3	1813.4
40°	2485.7	2494.2	2464.4	2343.8	2164.1	1905.7	1728.4	1718.7	1684.4	1764.6	1895.2
42.5°	2522.4	2539.7	2551.4	2492.2	2318.8	2042.3	1844.4	1832.3	1806.1	1913.8	1989.5
45°	2525.2	2552.6	2614.3	2617.1	2474.4	2206.0	1979.9	1971.4	1969.4	2104.8	2122.1
47.5°	2503.9	2531.7	2635.3	2691.3	2613.1	2371.2	2175.4	2162.1	2163.3	2341.0	2270.9
50°	2452.3	2485.3	2611.1	2738.8	2721.5	2543.0	2381.7	2377.3	2402.3	2610.7	2425.3
52.5°	2355.1	2395.0	2586.1	2768.7	2802.1	2690.9	2616.3	2603.8	2667.1	2903.3	2594.1
55°	2086.3	2146.3	2494.6	2785.2	2878.7	2832.4	2827.5	2850.1	2933.9	3222.5	2780.0
57.5°	1946.0	1991.2	2295.9	2788.0	2975.4	2996.8	3074.2	3079.8	3226.6	3561.5	2990.0
60°	1869.4	1909.3	2187.0	2769.5	3110.5	3200.4	3326.5	3346.7	3512.3	3928.7	3207.6
62.5°	1802.5	1836.8	2121.7	2705.4	3262.8	3502.3	3653.4	3663.1	3836.8	4334.2	3422.4
65°	1644.9	1684.0	1990.3	2641.3	3394.2	3879.5	4087.1	4075.8	4182.2	4684.0	3557.1
67.5°	1432.5	1482.1	1744.9	2420.0	3459.1	4291.9	4575.6	4561.5	4523.2	4913.4	3595.8
70°	1161.2	1187.8	1430.9	2037.5	3200.0	4508.3	4961.4	4946.4	4734.4	4943.6	3412.8
71°	999.2	1040.7	1245.9	1809.8	2984.3	4442.2	5010.9	5006.9	4734.8	4860.2	3274.9
72.5°	779.9	805.3	986.7	1402.3	2536.5	4066.5	4888.4	4903.7	4632.0	4628.4	2990.8
75°	493.4	504.6	619.1	825.5	1391.8	2879.9	4173.0	4214.5	4112.9	3788.4	2224.1
77.5°	286.6	301.1	370.8	486.5	601.4	1563.1	2985.9	3031.1	2857.7	2085.9	910.5
80°	166.9	183.0	244.3	282.6	276.1	580.0	1520.4	1597.4	1237.4	526.8	255.5
82.5°	92.7	103.6	171.7	172.1	147.1	189.4	478.4	500.6	353.1	212.4	104.4
85°	67.3	76.2	110.8	100.4	70.5	81.4	166.5	174.5	142.7	89.5	33.9
87.5°	23.8	33.9	60.9	48.4	19.3	16.9	48.0	39.1	36.3	25.0	7.7
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°	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3
2.5°	1338.6	1339.4	1335.4	1328.1	1320.9	1311.6	1301.1	1293.0	1289.4	1289.0	1288.6
5°	1353.1	1355.1	1339.8	1317.2	1292.2	1261.6	1235.4	1205.6	1197.9	1185.8	1189.5
7.5°	1376.5	1375.3	1345.0	1297.1	1238.6	1173.7	1118.9	1087.1	1054.0	1044.8	1045.2
10°	1409.9	1402.3	1345.0	1256.0	1158.4	1062.1	985.5	937.1	910.9	889.2	881.1
12.5°	1445.4	1426.1	1332.1	1198.3	1055.2	937.1	854.9	789.6	772.7	754.9	755.3
15°	1479.3	1447.0	1306.7	1117.3	944.0	803.7	723.9	684.8	679.6	681.6	681.2
17.5°	1509.9	1461.9	1268.0	1027.0	814.2	689.2	646.9	649.7	663.9	673.9	675.1
20°	1540.9	1470.8	1210.4	906.1	691.7	619.9	621.5	643.7	665.1	678.8	680.8
22.5°	1570.4	1474.8	1142.7	789.2	603.0	590.5	614.3	638.1	659.0	672.3	674.3
25°	1589.7	1465.6	1046.8	667.1	559.5	580.0	605.0	625.2	642.9	656.6	659.8
27.5°	1594.9	1435.7	927.9	568.3	539.3	569.9	592.9	607.8	621.5	634.4	636.8
30°	1592.1	1391.8	797.3	510.3	527.6	558.2	576.0	586.9	603.4	613.5	615.5
32.5°	1587.7	1340.6	661.0	479.2	517.9	547.4	557.8	567.5	567.1	563.1	565.9
35°	1589.3	1279.3	550.6	460.7	509.5	539.3	548.2	536.1	501.4	499.8	498.2
37.5°	1597.8	1218.9	470.4	447.8	505.0	538.1	542.9	487.3	456.7	442.6	438.9
40°	1619.5	1148.3	417.6	438.1	504.6	547.4	519.2	462.7	403.9	376.5	374.4
42.5°	1648.5	1079.0	385.3	432.1	509.5	561.5	509.5	428.1	364.0	347.8	345.4
45°	1691.7	999.6	367.6	429.3	516.7	566.7	506.3	402.7	347.8	334.9	334.9
47.5°	1740.4	923.8	357.9	427.3	526.0	563.1	477.6	394.6	340.2	341.8	349.5
50°	1788.8	858.1	350.7	422.8	534.1	561.1	465.9	394.2	342.2	362.8	376.5
52.5°	1844.8	811.8	341.8	415.6	534.1	548.2	462.3	402.3	347.8	353.9	359.9
55°	1912.6	797.3	330.5	399.8	524.4	515.9	460.3	414.0	351.9	337.8	340.2
57.5°	2002.0	820.6	319.6	380.1	502.2	482.5	459.5	417.2	342.6	330.9	328.5
60°	2106.0	867.0	316.4	359.9	472.0	453.9	454.7	407.9	329.7	317.6	319.6
62.5°	2179.0	894.8	314.4	344.6	438.9	422.4	443.0	396.6	324.1	313.6	315.6
65°	2179.0	861.0	295.9	321.2	396.2	384.5	428.9	382.5	316.8	304.7	302.7
67.5°	2096.4	762.2	267.6	286.2	349.1	341.4	409.1	365.6	305.9	296.7	291.8
70°	1881.1	578.0	232.2	245.1	289.4	296.3	383.7	342.6	287.8	276.5	269.2
71°	1786.4	503.4	217.3	224.1	266.4	276.5	371.6	332.9	279.7	263.6	250.7
72.5°	1603.8	424.0	194.7	197.5	227.7	245.9	346.2	314.4	264.4	241.4	226.9
75°	1218.5	309.6	156.8	155.2	168.5	195.1	293.0	280.1	231.8	200.7	192.3
77.5°	526.4	168.5	117.3	118.5	114.5	147.9	230.6	240.6	198.7	163.2	155.6
80°	159.6	97.1	80.2	81.8	76.6	99.2	162.4	188.6	159.6	127.0	116.5
82.5°	81.8	58.0	54.8	54.0	48.8	56.0	98.3	129.0	114.1	79.4	70.1
85°	35.5	31.0	27.0	26.2	23.0	20.2	35.1	64.5	60.5	44.3	42.3
87.5°	8.9	8.1	5.2	4.8	2.8	0.4	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)