

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: P451298

Luminaire Tested: **GLAN-SA2A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5981 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

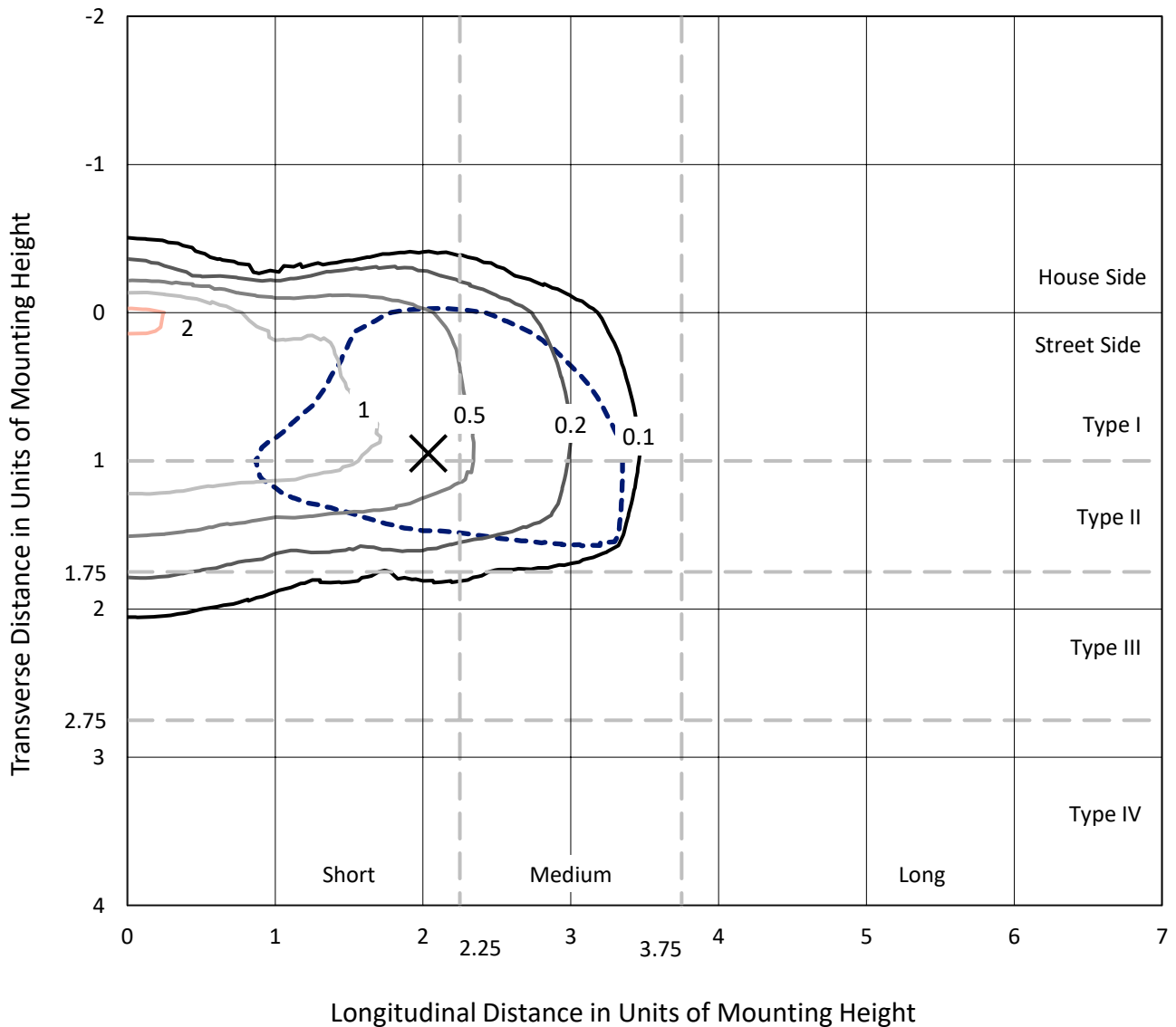
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

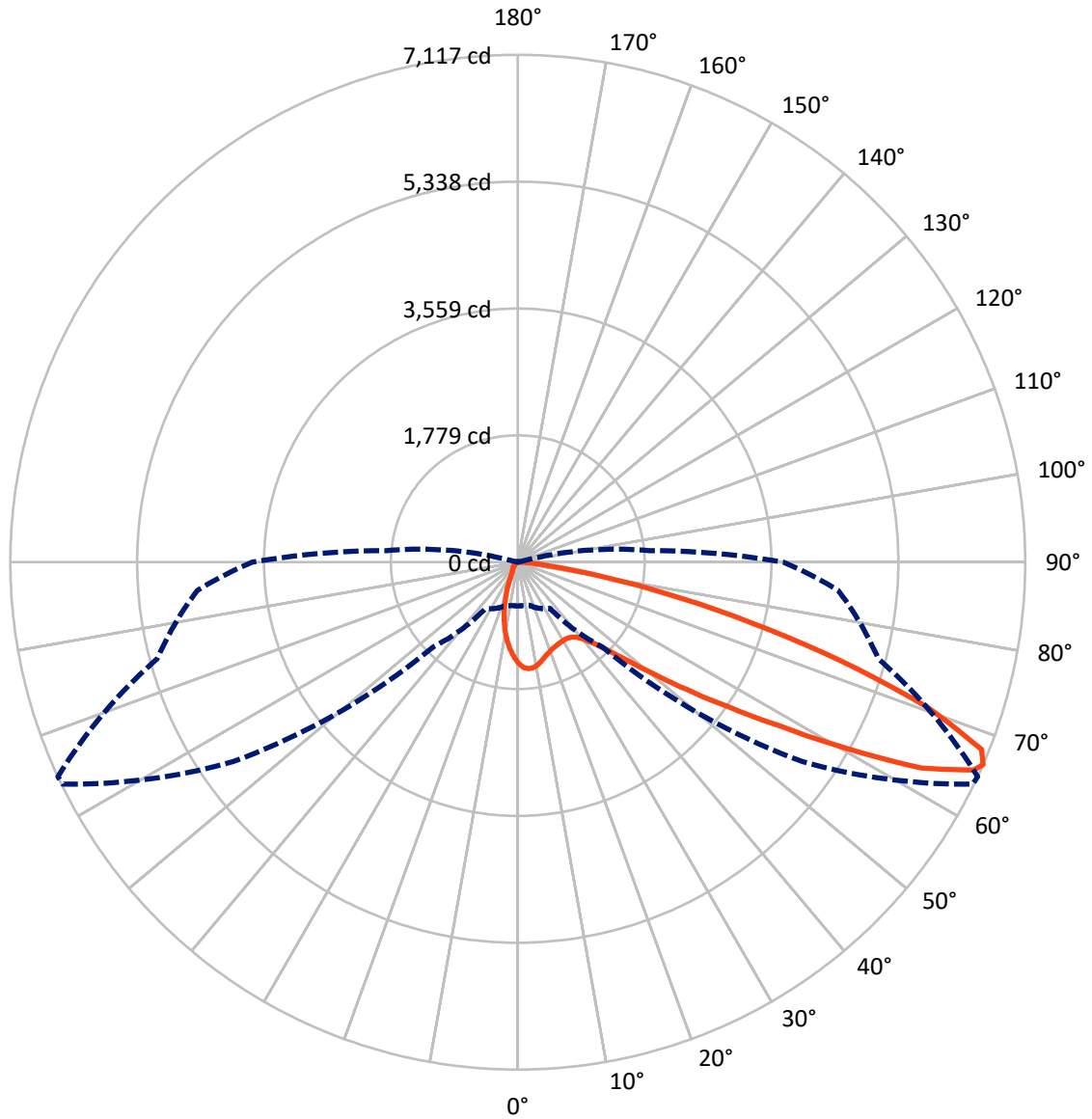
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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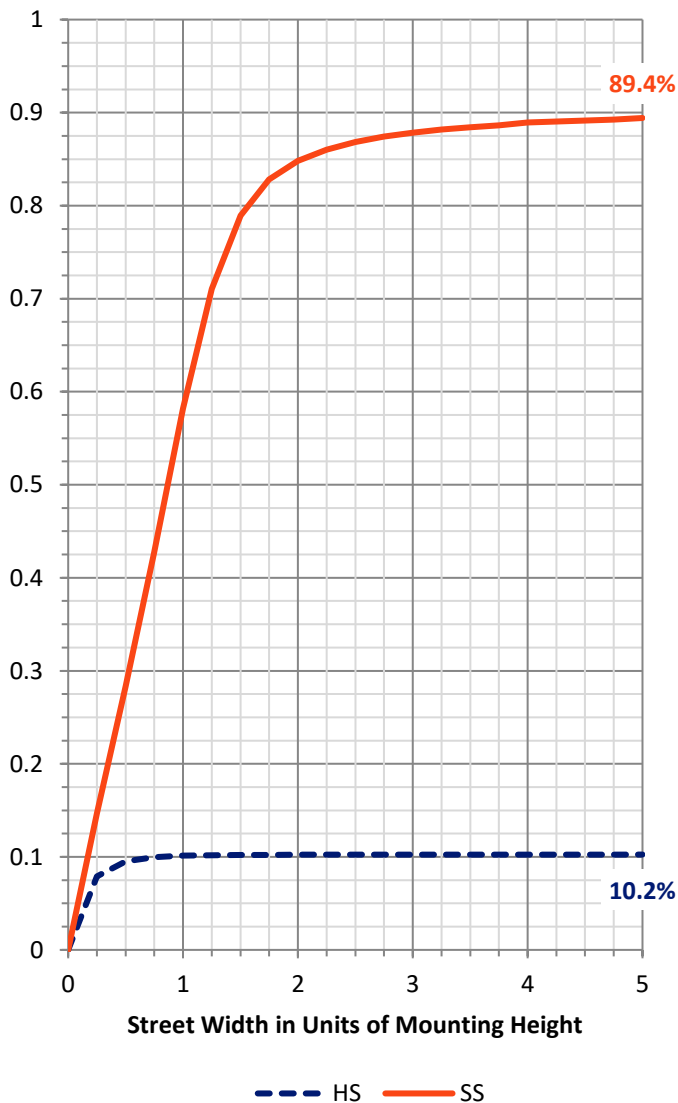
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.5	0.0	618.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5362.5	0.0	5362.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	5981.0	0.0	5981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.9
10°-20°	252.7	4.2
20°-30°	362.0	6.1
30°-40°	528.8	8.8
40°-50°	886.7	14.8
50°-60°	1479.8	24.7
60°-70°	1570.7	26.3
70°-80°	711.4	11.9
80°-90°	72.8	1.2
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°	5981.0	100.0
0°-180°	5981.0	100.0

Coefficient of Utilization



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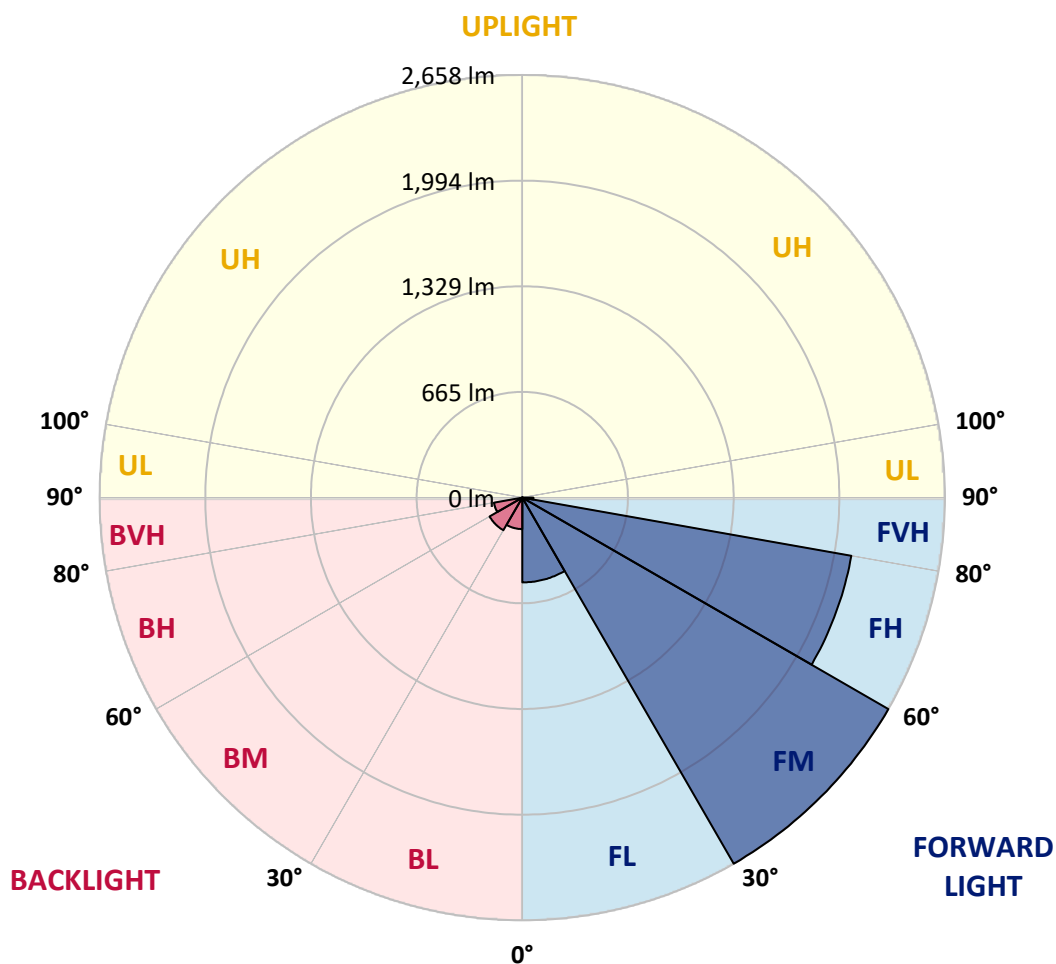
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.9	8.9			
FM (30°-60°)	2658.1	44.4			
FH (60°-80°)	2101.0	35.1			G2/5000
FVH (80°-90°)	70.5	1.2			G1/100
BL (0°-30°)	197.9	3.3	B1/500		
BM (30°-60°)	237.2	4.0	B1/1000		
BH (60°-80°)	181.1	3.0	B1/500		G1/500
BVH (80°-90°)	2.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3
2.5°	1494.7	1496.3	1498.3	1501.1	1503.1	1497.1	1488.6	1478.9	1476.9	1456.3	1431.2
5°	1414.7	1417.1	1434.9	1444.6	1466.4	1486.2	1498.7	1500.3	1499.5	1480.1	1440.1
7.5°	1300.8	1307.6	1325.0	1342.0	1382.8	1420.3	1464.8	1495.9	1497.9	1492.6	1443.0
10°	1208.3	1212.7	1221.6	1255.1	1289.0	1346.4	1408.6	1467.2	1472.0	1493.0	1440.5
12.5°	1135.9	1142.4	1153.3	1179.2	1220.0	1274.1	1344.8	1423.6	1433.7	1485.4	1433.7
15°	1085.4	1088.7	1099.6	1125.0	1164.6	1214.7	1286.2	1377.9	1386.8	1475.3	1432.5
17.5°	1061.6	1065.3	1072.9	1093.1	1125.8	1172.3	1242.2	1341.2	1352.5	1468.8	1436.9
20°	1068.1	1071.3	1071.7	1082.2	1104.4	1143.6	1209.9	1306.8	1321.4	1464.8	1444.2
22.5°	1104.8	1105.2	1100.4	1095.5	1103.2	1131.5	1190.1	1285.0	1300.0	1464.0	1452.7
25°	1159.8	1161.0	1152.9	1135.9	1120.6	1135.1	1185.6	1270.9	1284.2	1461.9	1457.9
27.5°	1235.7	1235.3	1232.9	1204.6	1161.0	1151.3	1189.3	1263.2	1274.5	1456.3	1459.9
30°	1342.0	1338.7	1333.5	1301.6	1234.9	1190.5	1204.6	1258.3	1268.8	1448.2	1454.7
32.5°	1446.6	1458.7	1457.9	1427.6	1344.4	1260.4	1236.5	1264.8	1272.5	1443.0	1447.0
35°	1568.6	1568.2	1599.3	1588.0	1490.6	1349.6	1291.1	1286.2	1292.3	1446.6	1443.4
37.5°	1681.7	1692.2	1740.7	1752.4	1663.5	1475.7	1368.2	1332.3	1334.3	1471.2	1452.2
40°	1822.7	1842.9	1915.2	1954.4	1876.0	1662.7	1482.1	1416.7	1417.1	1531.8	1485.8
42.5°	2004.5	2036.4	2103.8	2169.3	2127.3	1884.1	1653.0	1550.4	1549.6	1638.5	1562.5
45°	2225.4	2247.7	2324.4	2428.2	2401.6	2193.1	1901.9	1757.6	1747.1	1813.4	1698.7
47.5°	2416.1	2446.4	2524.4	2642.7	2763.9	2570.4	2199.2	2042.4	2035.6	2091.7	1932.2
50°	2499.3	2526.0	2608.0	2774.0	3067.7	3065.7	2641.9	2458.1	2446.4	2476.7	2293.3
52.5°	2408.0	2433.1	2515.9	2722.7	3210.7	3669.2	3283.4	2979.6	2965.5	2926.7	2724.7
55°	2095.4	2116.0	2238.4	2475.9	3155.8	4071.5	4167.3	3624.0	3569.0	3418.3	3213.1
57.5°	1668.4	1657.9	1733.8	2009.7	2833.4	4206.5	5074.6	4426.6	4328.5	3843.3	3626.4
60°	1156.1	1188.5	1219.2	1400.9	2130.5	3972.6	5638.9	5435.7	5306.5	4261.4	4022.3
62.5°	849.9	871.3	891.5	975.6	1339.5	3171.9	5738.7	6472.3	6357.6	4705.4	4400.0
65°	672.2	673.8	681.9	764.7	882.7	2062.6	5259.2	7056.8	7027.3	5132.8	4553.1
66°	612.4	612.8	625.3	714.2	792.2	1679.7	4875.0	7101.3	7117.4	5235.4	4508.2
67.5°	535.3	533.6	551.8	641.9	721.5	1211.1	4187.5	6921.1	7016.8	5314.1	4347.1
70°	414.9	412.9	435.1	538.5	664.5	807.9	2783.3	5942.7	6097.0	5153.0	3846.1
72.5°	276.3	277.9	315.9	425.0	634.2	711.4	1674.4	4520.8	4738.9	4255.4	3025.7
75°	161.2	164.0	207.2	315.9	550.6	678.3	947.7	3223.6	3363.0	2938.4	1884.9
77.5°	84.4	85.6	115.9	208.4	422.1	629.8	631.4	2059.4	2124.8	1428.0	746.1
80°	44.8	43.6	62.2	125.6	290.4	553.0	512.2	1090.3	1133.5	424.2	188.7
82.5°	17.0	18.6	33.1	82.4	171.7	397.1	441.1	481.9	467.0	93.3	79.2
85°	3.2	4.0	14.1	48.9	86.4	166.0	325.2	236.3	218.9	35.1	45.6
87.5°	0.4	0.8	4.0	11.7	12.5	56.2	96.1	65.4	56.6	12.9	19.0
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°	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3	1418.3
2.5°	1419.1	1408.2	1371.9	1335.9	1299.1	1266.0	1243.4	1206.6	1197.3	1184.0	1176.3
5°	1416.3	1390.8	1321.0	1244.6	1173.5	1096.8	1038.2	981.6	951.3	936.0	930.3
7.5°	1408.2	1367.8	1258.8	1139.2	1025.3	910.5	810.8	734.8	685.9	652.4	629.8
10°	1392.1	1336.3	1186.4	1022.0	849.9	698.5	572.0	475.9	401.5	378.1	378.9
12.5°	1375.5	1301.2	1105.6	892.0	678.7	487.6	353.5	277.5	242.0	230.3	227.8
15°	1360.1	1267.6	1026.5	765.9	505.4	315.9	227.8	201.2	191.5	189.5	189.1
17.5°	1352.1	1236.5	942.0	621.7	352.7	214.5	182.6	175.3	172.5	170.5	169.7
20°	1345.2	1209.5	861.3	486.8	241.2	175.7	163.6	156.7	151.9	149.9	148.7
22.5°	1340.4	1181.6	777.6	376.9	184.6	155.9	145.0	136.1	129.3	126.8	125.2
25°	1333.1	1150.9	693.2	275.5	155.5	138.6	126.0	115.5	106.6	102.2	101.4
27.5°	1322.6	1116.2	600.7	204.0	139.0	123.2	107.9	94.9	86.0	81.2	81.6
30°	1305.6	1079.8	508.2	162.0	125.6	107.5	90.9	78.4	69.9	66.3	65.8
32.5°	1285.4	1035.8	423.4	139.0	113.5	93.3	75.9	65.0	58.6	55.7	55.3
35°	1266.4	991.3	336.9	124.8	101.0	80.4	63.8	54.5	49.7	47.3	47.7
37.5°	1255.9	951.7	262.6	113.5	90.9	69.1	54.9	46.9	42.4	40.4	40.0
40°	1262.8	919.4	208.8	103.4	79.6	59.4	47.3	40.4	36.0	33.1	33.1
42.5°	1295.1	905.3	168.5	93.7	69.1	51.3	41.2	34.7	29.9	27.1	27.5
45°	1393.7	920.2	141.0	84.8	59.4	44.4	35.5	28.7	24.2	22.2	21.8
47.5°	1557.3	976.4	122.0	75.5	50.9	38.0	29.9	23.8	19.4	17.8	17.4
50°	1843.3	1092.3	107.9	66.3	43.2	32.3	24.6	19.0	15.4	13.7	13.7
52.5°	2236.7	1345.2	97.8	55.7	36.4	27.5	20.2	15.4	12.1	10.9	10.5
55°	2648.0	1611.8	92.5	46.9	30.3	22.6	16.2	12.1	9.3	8.1	7.7
57.5°	3043.5	1821.1	86.4	38.0	24.2	17.4	12.5	9.3	6.5	5.7	5.3
60°	3422.8	1990.3	73.5	30.3	19.0	12.5	9.3	6.5	4.4	3.6	3.6
62.5°	3762.1	2088.9	57.8	24.2	14.5	8.9	6.1	4.8	3.2	2.4	2.4
65°	3801.7	1960.8	43.6	18.6	10.5	5.7	3.6	3.6	2.4	1.6	1.6
66°	3722.1	1852.2	38.4	17.0	9.3	4.8	3.2	2.8	2.0	1.2	1.2
67.5°	3544.4	1666.8	33.1	14.5	7.7	3.6	2.4	2.4	1.6	0.8	0.8
70°	3062.4	1361.4	26.3	10.9	5.7	2.8	1.6	1.6	1.2	0.8	0.8
72.5°	2334.1	1016.4	21.4	8.1	4.0	2.0	1.2	1.2	1.2	0.8	0.8
75°	1407.8	547.4	16.6	6.1	3.6	1.6	0.8	1.2	1.6	1.2	0.8
77.5°	518.7	186.2	12.9	4.8	2.8	1.6	0.8	0.8	1.6	1.2	1.2
80°	127.2	48.5	9.3	4.0	2.8	1.6	0.8	0.8	1.6	1.6	1.6
82.5°	59.0	20.6	6.5	3.6	2.8	1.6	0.8	0.8	1.2	1.6	1.6
85°	33.9	9.7	5.3	4.0	2.8	1.6	0.8	0.8	1.2	1.6	1.6
87.5°	13.7	4.8	4.8	4.0	3.2	2.0	0.8	0.8	0.8	1.2	1.2
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)