

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: P268169

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5WQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5702.4 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

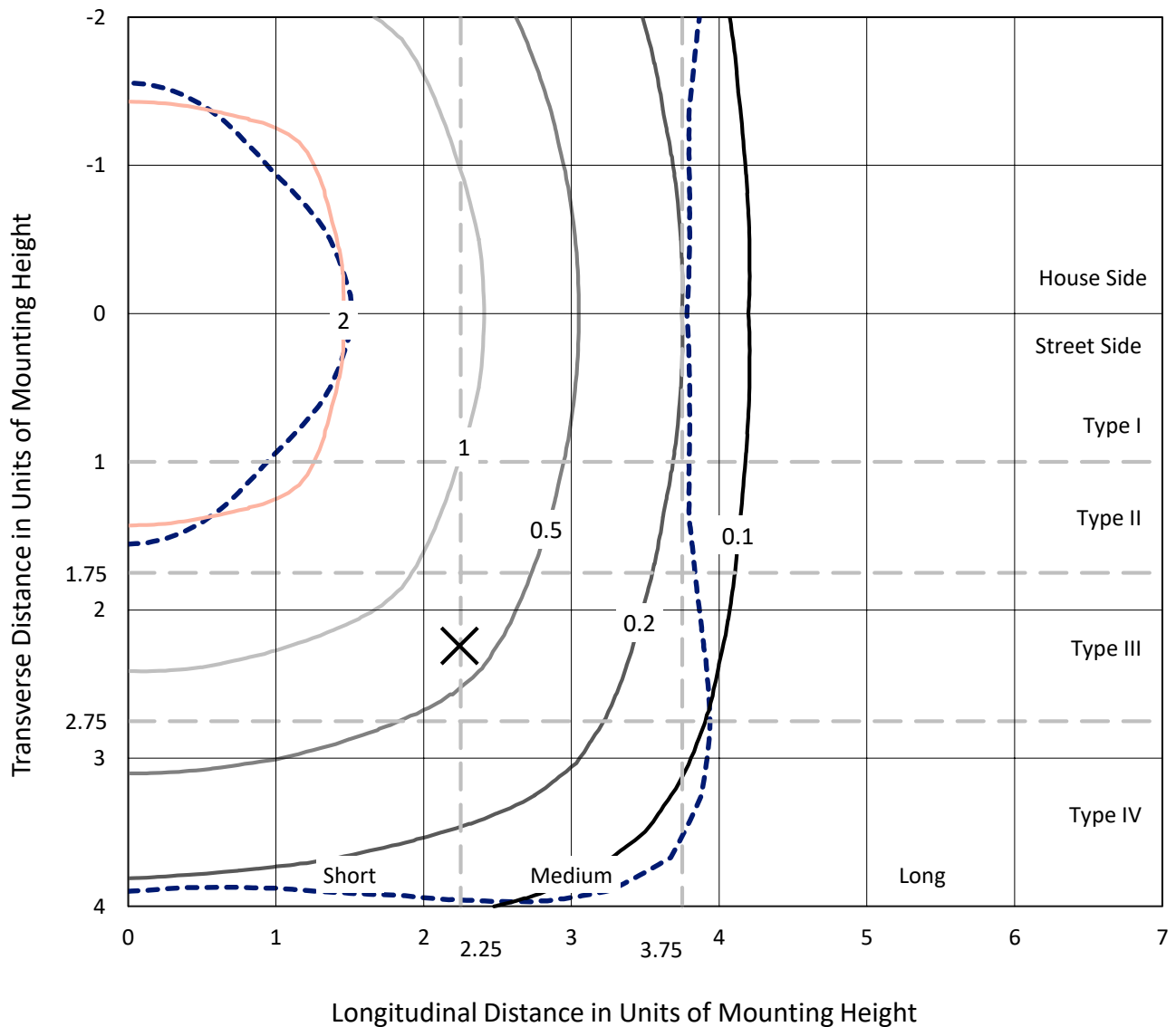
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

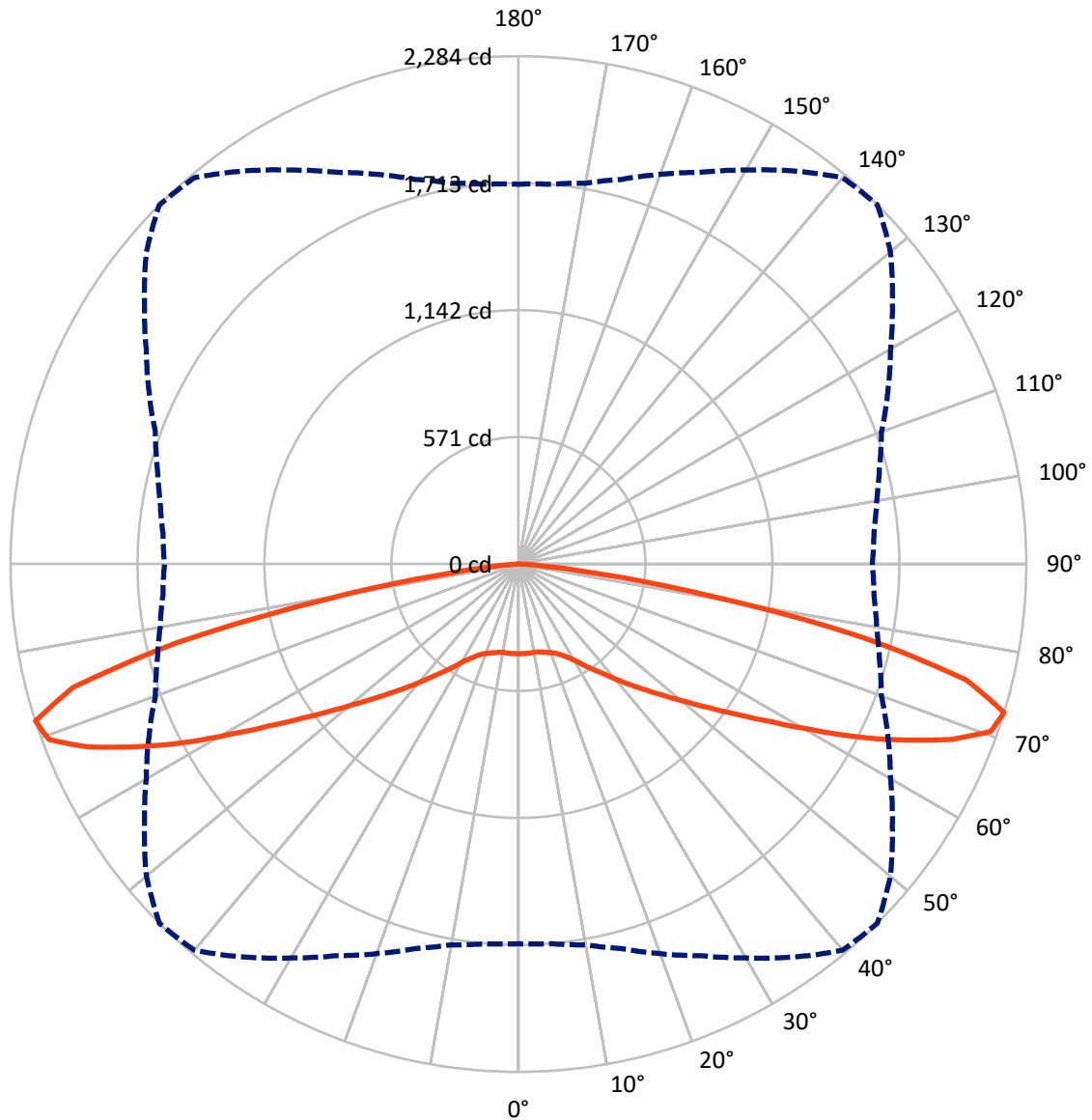
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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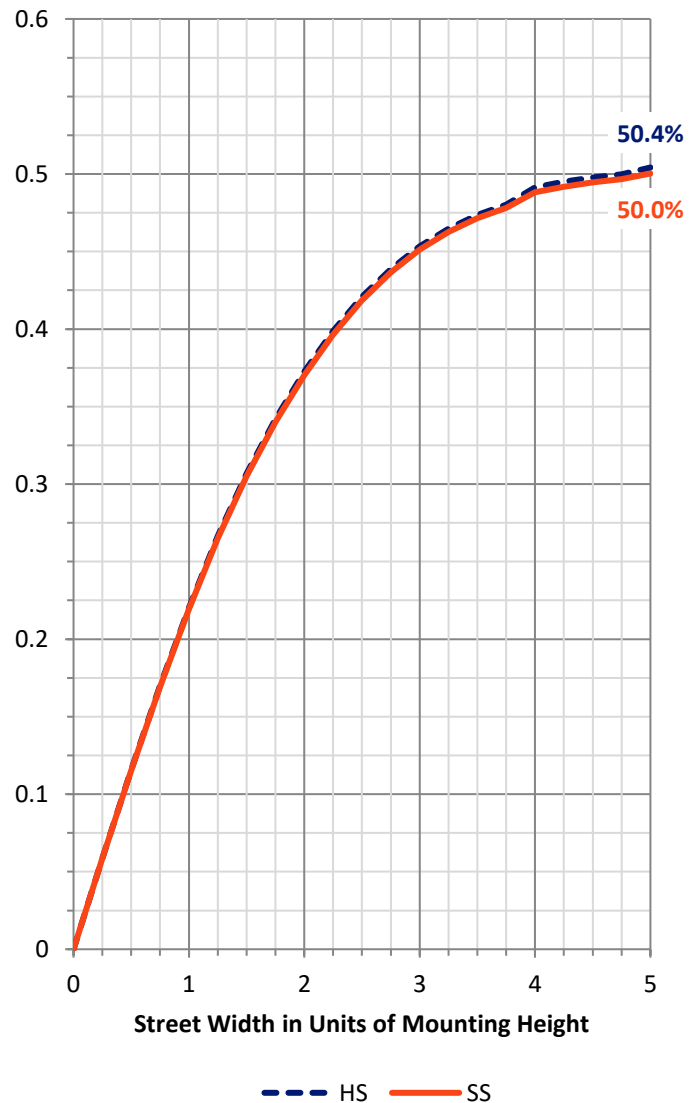
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2851.2	0.0	2851.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2851.2	0.0	2851.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5702.4	0.0	5702.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	0.7
10°-20°	117.1	2.1
20°-30°	214.0	3.8
30°-40°	369.0	6.5
40°-50°	630.8	11.1
50°-60°	1022.4	17.9
60°-70°	1696.2	29.7
70°-80°	1493.9	26.2
80°-90°	120.5	2.1
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°	5702.4	100.0
0°-180°	5702.4	100.0



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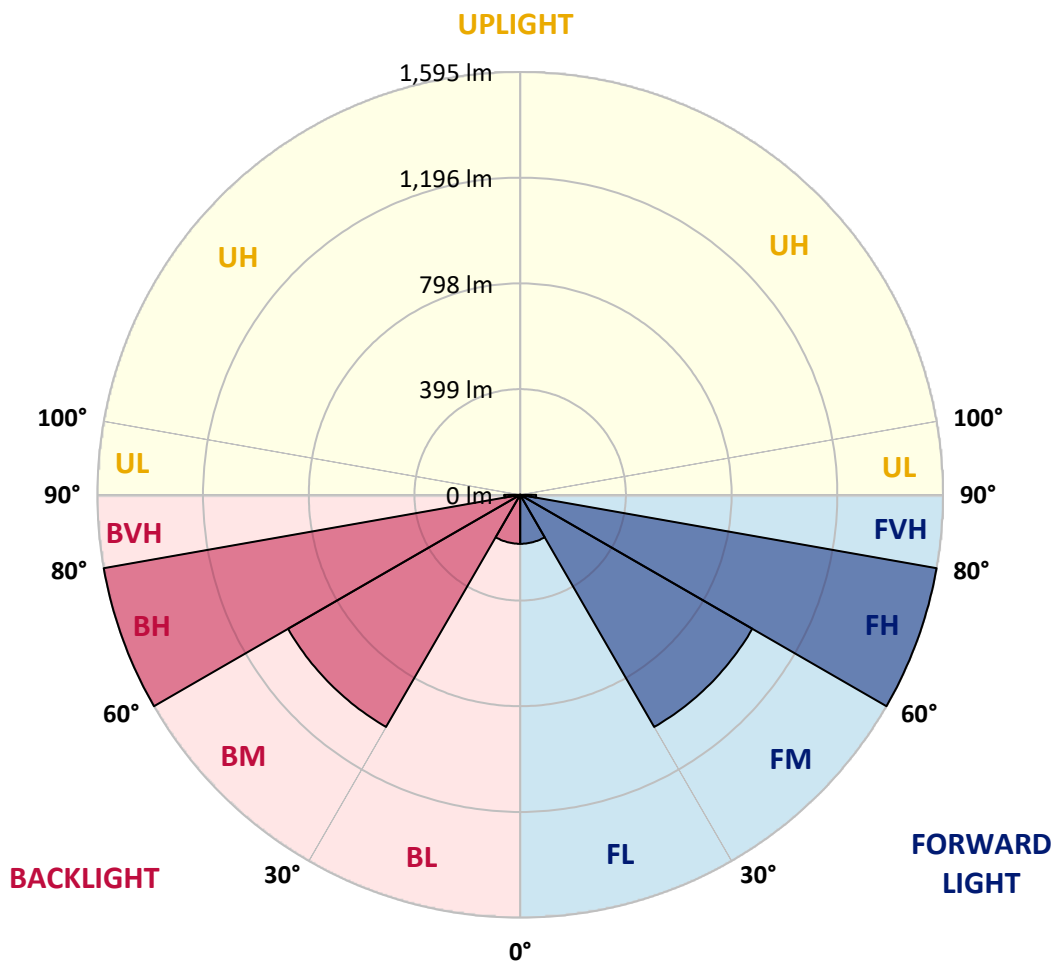
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.8	3.2			
FM	(30°-60°)	1011.1	17.7			
FH	(60°-80°)	1595.1	28.0			G1/1800
FVH	(80°-90°)	60.2	1.1			G1/100
BL	(0°-30°)	184.8	3.2	B1/500		
BM	(30°-60°)	1011.1	17.7	B2/2500		
BH	(60°-80°)	1595.1	28.0	B3/2500		G1/1800
BVH	(80°-90°)	60.2	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8
2.5°	403.8	404.1	404.3	404.1	404.1	403.8	403.6	403.8	403.6	403.0	403.2
5°	405.1	405.7	405.7	405.1	405.3	405.1	404.5	404.9	404.3	403.6	403.6
7.5°	406.8	406.9	406.9	406.5	406.8	406.2	405.7	405.3	404.9	403.8	403.0
10°	409.1	409.3	409.1	408.5	408.5	407.7	406.5	405.9	404.9	403.2	402.5
12.5°	411.7	412.0	411.7	411.2	410.9	409.5	408.5	407.7	406.9	405.7	404.3
15°	415.3	415.8	415.3	414.3	413.5	412.4	412.0	412.2	412.4	411.5	410.0
17.5°	422.2	422.5	421.7	419.2	418.3	417.2	417.2	417.7	418.5	417.9	416.6
20°	434.7	433.9	432.1	429.2	428.0	426.1	425.7	426.1	426.1	425.7	424.8
22.5°	450.4	449.8	447.4	443.9	442.0	441.0	439.5	438.1	437.8	437.0	435.9
25°	469.3	468.9	466.1	462.9	461.5	460.3	459.0	457.1	455.6	453.7	452.7
27.5°	493.3	492.2	488.0	486.4	484.6	483.8	482.0	480.0	478.6	476.3	474.9
30°	519.7	519.7	516.3	515.7	515.7	513.9	511.9	508.3	505.8	503.5	502.7
32.5°	546.1	546.3	542.9	544.1	544.8	546.1	546.6	545.4	543.7	543.5	541.9
35°	584.3	583.2	579.9	580.7	580.3	580.0	580.0	583.0	583.4	584.0	580.8
37.5°	631.6	631.6	628.3	628.3	626.7	625.1	623.0	624.9	627.6	628.5	626.4
40°	685.8	687.7	683.4	683.2	683.7	678.7	676.3	679.2	681.0	684.1	681.9
42.5°	749.5	748.3	744.1	743.5	740.7	739.1	737.0	739.3	742.3	744.3	745.1
45°	810.8	809.7	805.1	805.1	802.1	800.7	801.8	805.8	807.0	810.0	812.8
47.5°	871.1	869.9	866.8	868.0	868.3	870.6	874.1	877.7	881.3	885.3	886.6
50°	932.9	933.2	929.7	932.9	936.8	943.4	952.6	958.5	966.1	971.1	972.7
52.5°	989.2	990.2	993.9	1001.3	1009.1	1021.8	1037.5	1052.2	1064.8	1073.0	1072.5
55°	1056.6	1058.3	1067.0	1079.7	1092.5	1111.8	1135.1	1161.0	1181.9	1193.9	1186.3
57.5°	1143.0	1146.3	1156.3	1173.2	1192.4	1217.5	1249.5	1288.3	1320.8	1336.9	1324.7
60°	1261.4	1263.5	1275.6	1294.4	1317.4	1348.4	1391.1	1443.4	1489.2	1510.7	1496.5
62.5°	1417.5	1421.5	1431.2	1450.3	1473.8	1509.2	1561.2	1626.6	1683.6	1713.3	1681.4
65°	1604.1	1616.6	1624.7	1644.1	1665.9	1703.5	1757.9	1828.0	1889.1	1908.7	1871.9
67.5°	1788.6	1799.7	1813.8	1836.0	1858.2	1900.4	1950.8	2018.9	2086.0	2103.8	2046.6
70°	1869.6	1875.8	1897.7	1928.1	1970.7	2020.4	2078.7	2155.2	2238.2	2252.9	2180.1
72.5°	1707.6	1713.8	1738.5	1790.1	1864.3	1943.3	2045.0	2157.2	2267.1	2283.5	2183.3
75°	1291.6	1281.3	1317.6	1385.9	1486.1	1596.2	1738.5	1899.2	2058.0	2078.7	1959.3
77.5°	667.4	666.2	693.6	778.3	897.9	1023.2	1179.8	1361.7	1517.0	1579.7	1482.5
80°	188.0	190.1	203.2	245.3	315.1	405.7	528.1	698.3	825.5	890.3	836.0
82.5°	73.8	79.5	84.5	92.3	101.5	114.9	153.3	228.1	306.1	365.6	299.4
85°	26.4	28.2	40.1	47.3	48.1	50.8	57.9	67.6	81.3	97.0	79.8
87.5°	9.9	11.0	12.8	21.2	20.9	19.1	23.3	24.3	18.3	16.8	20.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	403.8	403.8	403.8	403.8	403.8	403.8	403.8	403.8
2.5°	402.8	403.0	403.0	403.2	403.6	403.6	404.1	404.1
5°	403.0	403.0	402.5	402.8	402.5	402.5	402.8	402.8
7.5°	402.5	402.3	401.7	401.5	401.0	401.0	401.0	401.0
10°	401.7	401.5	401.0	400.6	400.5	400.5	400.5	400.5
12.5°	403.8	403.0	402.5	402.3	402.3	402.3	402.3	402.3
15°	409.3	407.6	406.2	406.2	406.5	406.9	406.9	407.6
17.5°	416.2	413.9	412.7	411.7	412.2	413.0	413.5	413.9
20°	424.2	423.2	421.3	420.2	420.2	421.3	421.8	422.2
22.5°	435.5	434.7	433.9	432.7	432.7	433.2	434.2	434.2
25°	452.1	451.7	451.2	450.1	449.8	449.8	450.4	450.9
27.5°	473.1	473.3	472.9	472.6	471.8	471.6	472.4	472.1
30°	501.2	502.4	503.7	502.7	501.3	500.5	499.7	498.7
32.5°	539.1	537.5	536.4	534.6	532.2	530.1	528.6	526.8
35°	574.8	572.2	571.2	572.8	572.5	571.2	569.3	567.8
37.5°	618.8	618.3	618.8	621.6	621.2	622.4	618.8	618.6
40°	674.3	674.7	678.4	681.9	683.7	685.4	683.4	681.4
42.5°	738.5	738.3	739.7	744.3	747.5	749.5	745.1	744.7
45°	806.6	804.7	805.8	809.7	812.8	815.2	810.2	810.2
47.5°	881.3	878.3	874.9	879.4	881.1	882.8	878.8	877.5
50°	964.8	958.3	950.9	952.8	952.8	952.3	947.4	947.1
52.5°	1060.5	1048.5	1035.1	1030.1	1027.3	1024.2	1015.5	1011.4
55°	1170.6	1152.6	1131.7	1118.8	1112.1	1103.5	1089.0	1085.2
57.5°	1299.4	1271.1	1235.0	1219.3	1204.2	1190.1	1174.1	1169.7
60°	1451.8	1410.2	1362.4	1333.4	1316.8	1303.3	1286.8	1286.1
62.5°	1621.8	1556.1	1502.1	1475.8	1463.9	1451.8	1436.1	1438.1
65°	1794.8	1726.2	1675.3	1654.3	1643.0	1633.1	1617.4	1619.7
67.5°	1965.2	1902.3	1846.5	1824.7	1812.2	1799.7	1785.6	1787.8
70°	2087.7	2009.4	1946.6	1898.5	1868.5	1834.5	1812.5	1807.0
72.5°	2052.5	1932.1	1832.4	1737.0	1680.9	1635.5	1604.6	1591.2
75°	1776.4	1611.6	1483.5	1366.3	1300.3	1246.8	1207.9	1183.4
77.5°	1319.3	1134.0	982.6	847.6	740.9	669.2	618.8	586.1
80°	722.1	549.3	401.5	282.2	207.4	172.4	152.3	142.6
82.5°	224.9	145.2	107.0	92.3	85.8	82.1	76.0	66.5
85°	71.7	62.8	58.3	55.8	53.1	46.4	31.9	29.0
87.5°	27.7	28.4	28.2	26.7	27.2	19.7	15.7	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)