

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386275

Luminaire Tested: GAW-SA1D-830-U-SL3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-830-U-SL3
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6585 lumens
Efficiency: N/A
Efficacy: 99.8 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

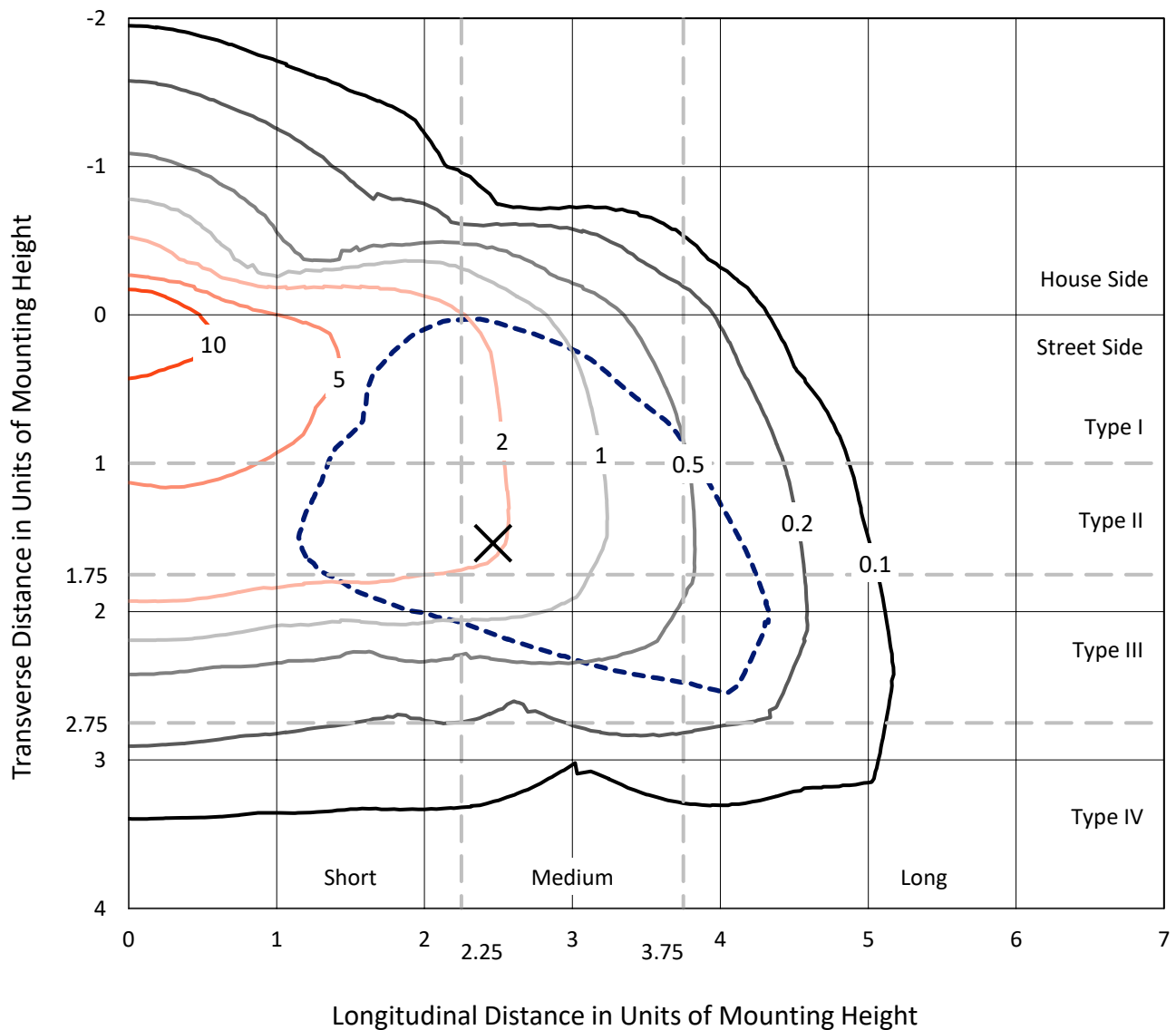
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

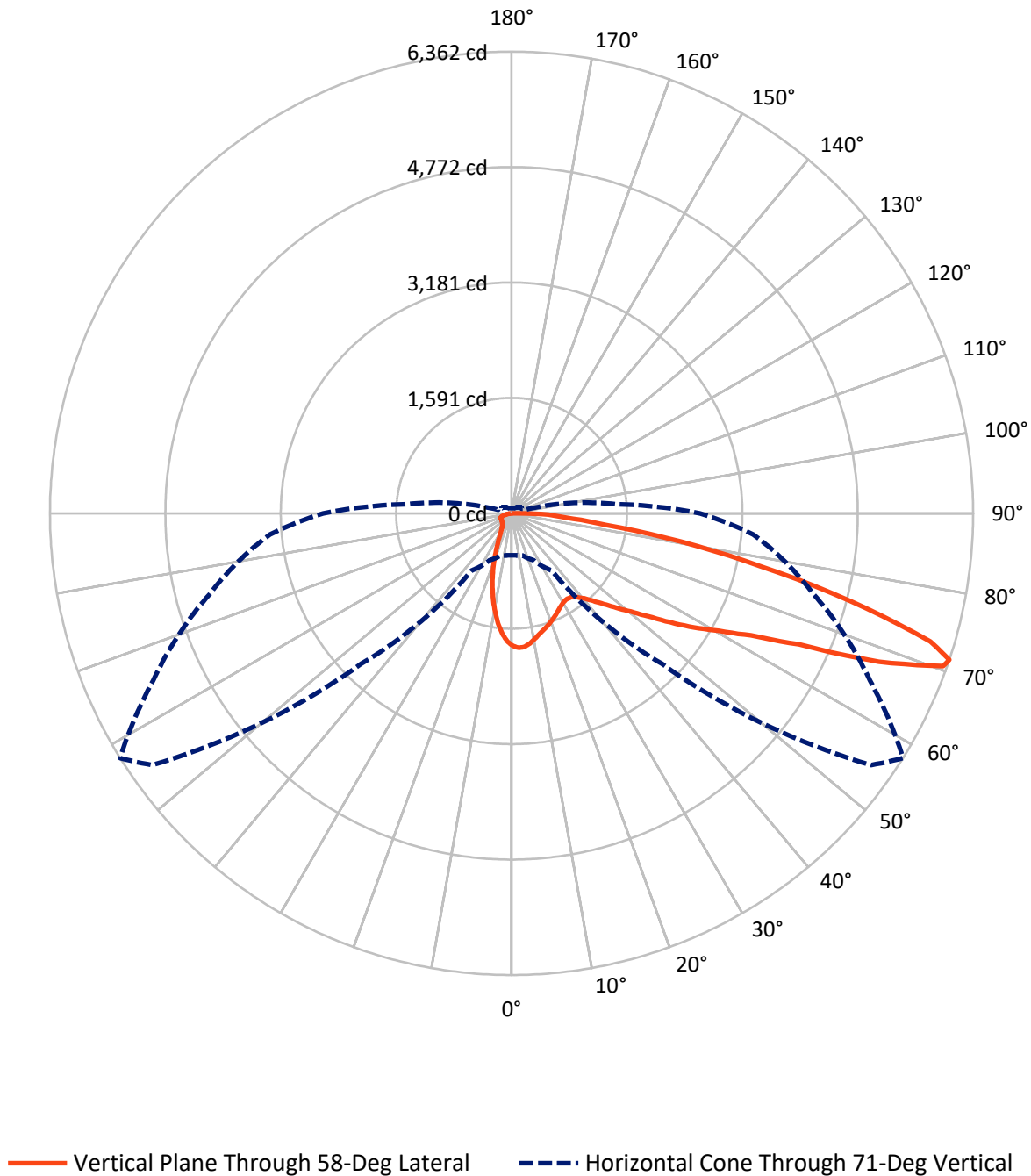
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	984.5	0.0	984.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5600.5	0.0	5600.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	6585.0	0.0	6585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	2.4
10°-20°	350.0	5.3
20°-30°	444.8	6.8
30°-40°	566.6	8.6
40°-50°	803.5	12.2
50°-60°	1243.4	18.9
60°-70°	1692.7	25.7
70°-80°	1129.2	17.1
80°-90°	197.4	3.0
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°	6585.0	100.0
0°-180°	6585.0	100.0

Coefficient of Utilization



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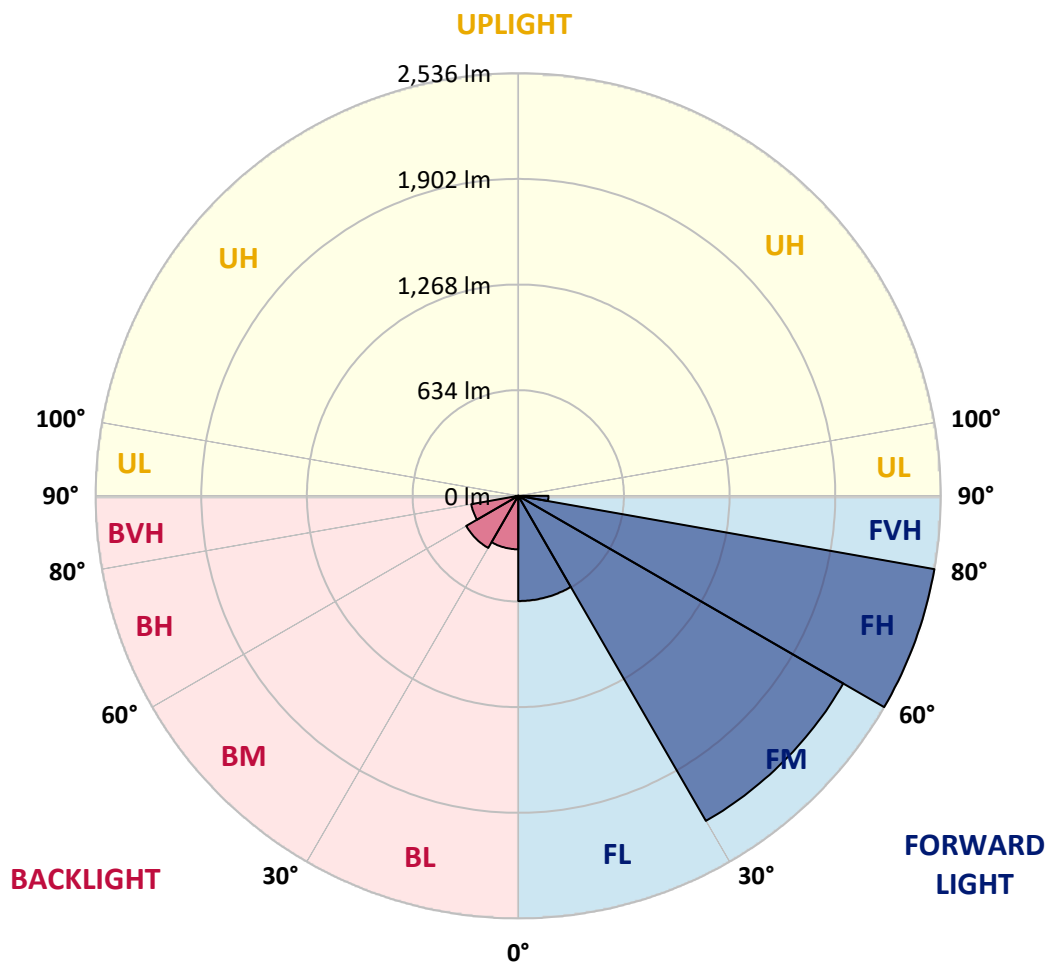
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.3	9.6			
FM	(30°-60°)	2252.4	34.2			
FH	(60°-80°)	2535.8	38.5			G2/5000
FVH	(80°-90°)	181.0	2.7			G2/225
BL	(0°-30°)	320.9	4.9	B1/500		
BM	(30°-60°)	361.0	5.5	B1/1000		
BH	(60°-80°)	286.1	4.3	B1/500		G1/500
BVH	(80°-90°)	16.4	0.2			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°	58°	65°	75°	85°
0°	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5
2.5°	1872.9	1870.4	1871.3	1869.4	1865.1	1860.7	1854.3	1855.5	1846.5	1833.2	1816.7
5°	1837.6	1836.6	1843.5	1847.4	1850.6	1848.1	1846.3	1848.6	1835.5	1817.1	1788.5
7.5°	1763.5	1753.4	1762.1	1775.2	1787.6	1797.0	1809.3	1811.0	1802.7	1783.4	1745.8
10°	1658.2	1648.6	1661.4	1681.8	1706.6	1729.1	1754.1	1758.7	1760.3	1742.8	1697.2
12.5°	1549.0	1541.7	1554.5	1583.2	1624.2	1658.9	1698.8	1705.7	1719.9	1708.2	1652.2
15°	1451.3	1448.5	1464.1	1492.3	1539.6	1592.6	1650.2	1662.8	1686.9	1683.0	1617.1
17.5°	1366.9	1366.2	1378.1	1407.7	1460.0	1527.0	1601.8	1623.1	1658.9	1663.5	1588.2
20°	1304.0	1302.6	1310.9	1332.7	1386.6	1462.5	1549.5	1578.8	1630.4	1646.5	1558.4
22.5°	1270.3	1270.1	1270.3	1280.6	1324.7	1395.3	1498.5	1534.3	1602.7	1633.0	1525.4
25°	1264.6	1263.9	1258.8	1257.7	1282.7	1339.1	1448.1	1487.5	1576.3	1623.5	1493.9
27.5°	1279.5	1280.4	1273.7	1263.0	1268.0	1302.2	1404.3	1446.5	1555.2	1621.7	1472.2
30°	1310.4	1310.0	1304.3	1293.0	1283.1	1288.4	1373.1	1415.3	1541.0	1629.7	1457.2
32.5°	1344.6	1347.1	1346.0	1339.8	1325.1	1304.0	1363.7	1404.9	1536.8	1649.0	1450.8
35°	1385.7	1388.4	1396.7	1401.5	1384.3	1350.4	1383.8	1419.6	1548.8	1685.3	1461.1
37.5°	1424.7	1431.8	1455.0	1475.4	1460.7	1422.8	1437.5	1463.0	1585.7	1742.4	1488.9
40°	1469.6	1475.8	1513.7	1557.0	1554.7	1515.5	1524.0	1541.0	1650.8	1824.3	1539.1
42.5°	1513.9	1526.3	1581.1	1642.6	1660.2	1625.6	1639.1	1648.1	1742.6	1932.8	1626.8
45°	1572.9	1586.2	1662.3	1736.4	1777.7	1758.2	1779.8	1783.2	1858.0	2080.5	1754.1
47.5°	1662.1	1677.2	1766.0	1843.8	1906.8	1908.9	1944.5	1943.1	2002.0	2249.5	1914.4
50°	1801.1	1822.9	1895.6	1968.3	2044.9	2087.6	2135.1	2128.4	2174.7	2429.6	2099.1
52.5°	1983.2	1993.3	2047.2	2100.9	2196.1	2291.7	2359.9	2353.9	2370.6	2614.7	2308.7
55°	2172.0	2179.6	2201.8	2231.2	2359.2	2515.1	2659.2	2649.8	2607.4	2806.9	2515.8
57.5°	2341.7	2357.1	2372.5	2384.6	2523.4	2748.7	2965.4	2966.1	2864.3	3014.3	2729.8
60°	2368.1	2381.6	2483.3	2579.1	2804.4	3060.2	3293.2	3286.3	3130.1	3239.3	2968.4
62.5°	2093.3	2123.8	2293.6	2548.6	3075.1	3629.9	3711.4	3702.9	3448.0	3516.6	3246.2
65°	1500.1	1534.8	1739.6	2122.9	2943.9	4257.7	4466.0	4351.8	3881.6	3857.7	3571.4
67.5°	865.4	873.7	962.5	1270.3	2241.5	4290.5	5617.3	5457.4	4554.8	4244.7	3730.6
70°	640.0	639.7	660.8	781.7	1213.0	3501.7	6164.8	6308.2	5263.6	4372.0	3505.6
71°	578.7	579.4	603.0	711.5	960.6	2931.0	6048.5	6362.3	5450.3	4309.1	3342.7
72.5°	495.0	497.3	530.1	638.1	808.1	2021.3	5547.5	6037.5	5538.8	4154.1	3087.9
75°	375.5	380.8	426.2	537.9	738.6	1025.1	4071.5	4821.1	4920.4	3665.5	2294.5
77.5°	267.9	273.9	325.3	452.3	702.1	772.6	2726.6	3516.6	3621.0	2349.1	1035.0
80°	169.3	176.4	215.2	359.9	659.7	733.6	1713.5	2363.8	1974.5	751.7	263.3
82.5°	99.3	104.8	133.5	235.1	538.8	706.5	1008.1	1310.2	768.4	227.1	119.7
85°	57.6	60.1	83.3	149.8	391.3	666.8	740.7	732.4	333.5	111.0	56.7
87.5°	26.8	29.8	49.3	78.2	217.2	483.3	585.4	505.8	207.4	52.1	26.6
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°	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5	1824.5
2.5°	1808.7	1804.8	1788.5	1774.0	1758.9	1739.2	1717.4	1714.6	1701.3	1703.8	1699.2
5°	1772.9	1763.0	1723.8	1688.2	1646.3	1608.6	1567.8	1549.0	1521.9	1520.1	1513.2
7.5°	1721.7	1703.4	1642.6	1575.1	1507.7	1443.5	1379.9	1338.2	1295.5	1277.4	1275.8
10°	1664.1	1633.0	1543.5	1443.7	1346.5	1252.6	1161.8	1094.6	1034.0	1005.4	1004.2
12.5°	1609.6	1563.5	1440.7	1304.9	1171.9	1050.3	925.8	837.5	761.5	736.1	725.3
15°	1563.2	1498.3	1340.7	1167.1	1005.6	836.8	695.0	602.1	531.9	507.6	503.0
17.5°	1518.3	1434.8	1238.2	1027.8	832.6	647.1	505.1	436.1	398.7	388.8	388.6
20°	1473.5	1369.4	1131.1	885.4	665.4	484.0	388.3	357.4	344.8	343.6	341.8
22.5°	1422.8	1300.1	1018.4	742.5	519.3	380.5	330.1	317.7	316.1	320.2	320.2
25°	1375.4	1231.3	904.2	602.6	403.9	317.5	294.8	292.2	296.6	303.9	304.6
27.5°	1331.1	1165.0	792.7	478.3	323.7	279.6	270.2	273.2	281.0	289.5	289.7
30°	1294.6	1102.4	684.5	376.9	273.4	251.4	249.8	255.8	264.2	270.9	272.5
32.5°	1266.4	1049.0	579.9	303.0	240.6	230.3	231.7	236.7	242.0	245.7	248.2
35°	1253.3	1003.1	483.3	255.5	219.7	214.0	215.8	218.6	220.9	223.6	225.7
37.5°	1255.6	967.5	397.1	225.9	205.8	202.8	202.8	202.8	202.8	204.1	204.4
40°	1277.0	947.1	326.9	207.1	196.3	193.1	190.6	188.3	186.5	187.4	186.9
42.5°	1331.5	945.3	275.5	195.2	188.8	183.5	178.5	175.2	173.0	173.9	174.3
45°	1424.2	968.2	240.8	186.7	181.7	173.6	167.2	163.8	162.2	165.2	165.6
47.5°	1544.2	1018.2	219.7	180.5	175.0	164.5	157.6	154.4	154.8	159.2	160.3
50°	1698.8	1099.4	209.7	176.6	170.4	156.7	149.6	146.8	148.2	154.4	155.7
52.5°	1868.5	1216.4	210.8	175.5	167.4	150.9	143.4	140.2	142.4	148.2	149.3
55°	2064.4	1357.0	229.8	177.1	163.1	147.3	138.3	132.8	134.6	139.9	140.8
57.5°	2282.1	1518.0	268.1	176.6	157.6	143.8	133.0	124.8	126.2	129.4	130.3
60°	2508.7	1712.5	327.6	178.0	155.1	139.7	125.9	115.6	115.1	117.9	118.4
62.5°	2780.8	1937.6	395.5	178.9	156.7	134.4	116.5	106.4	105.1	105.7	106.2
65°	3061.1	2100.4	370.0	175.2	161.7	130.1	108.3	97.5	95.0	94.5	94.7
67.5°	3069.8	1925.9	259.4	167.9	163.8	127.8	102.1	89.9	85.8	84.2	84.0
70°	2753.0	1564.6	202.1	160.1	155.5	124.1	96.3	83.7	77.5	75.0	74.8
71°	2598.4	1440.3	191.5	156.2	149.3	120.4	93.8	81.0	74.5	71.8	71.3
72.5°	2356.0	1291.2	178.7	150.0	137.4	111.0	89.0	77.1	70.4	67.2	66.5
75°	1690.8	844.3	153.5	133.7	113.8	88.5	78.0	69.3	63.5	59.6	59.2
77.5°	651.4	336.0	116.1	111.2	87.2	69.3	64.2	59.9	55.7	51.8	51.6
80°	201.4	150.2	84.6	83.7	63.1	51.6	50.0	48.9	47.3	43.1	42.2
82.5°	107.6	86.2	58.3	54.1	41.3	34.4	36.2	36.7	36.9	32.6	32.1
85°	51.4	45.6	32.8	30.7	24.1	19.3	22.2	24.1	24.3	20.0	18.6
87.5°	24.5	23.9	15.4	11.7	8.9	6.4	7.8	9.6	10.6	7.6	6.7
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)