

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: P522677

Luminaire Tested: **GLAN-SA2D-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13020 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

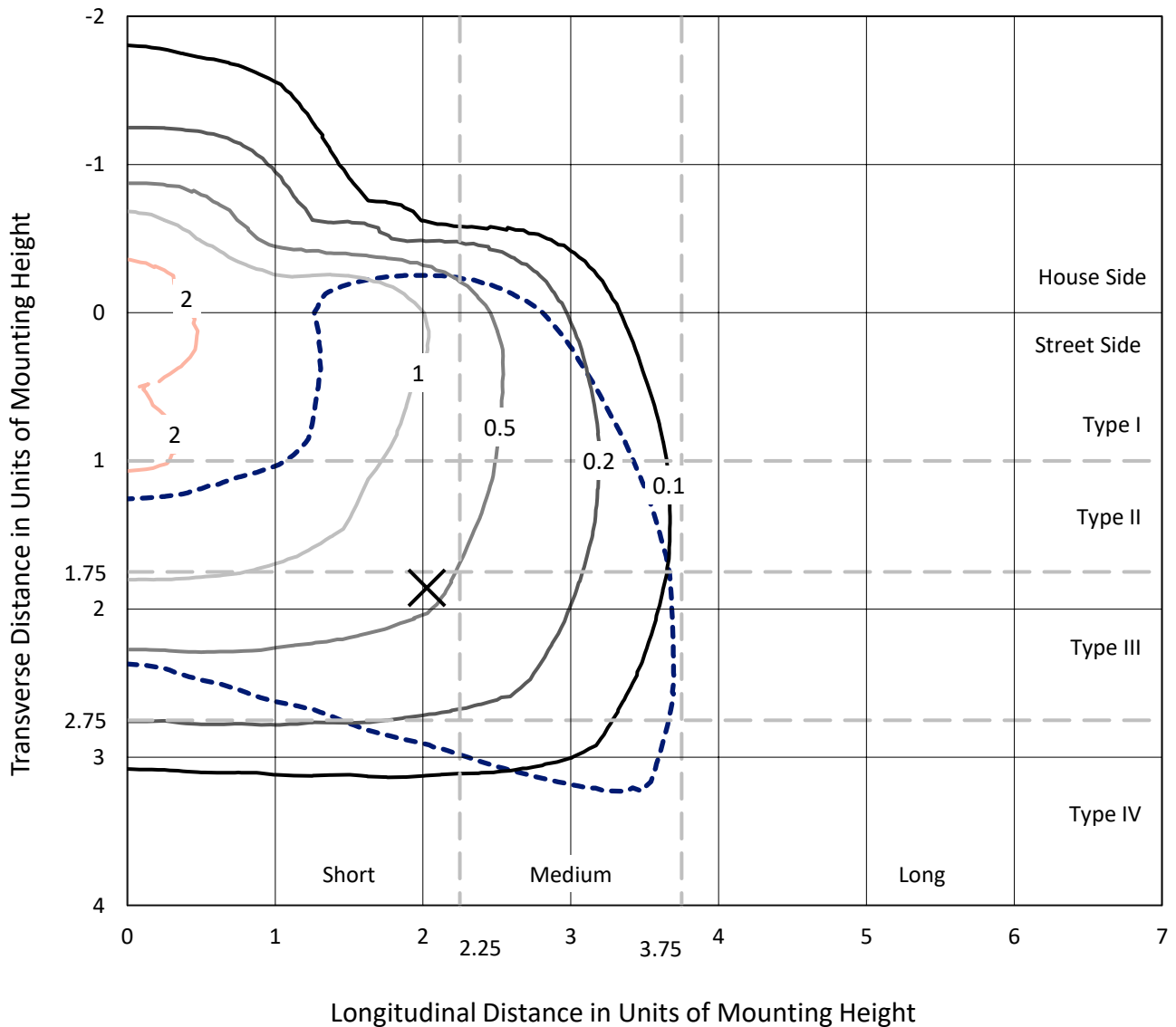
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

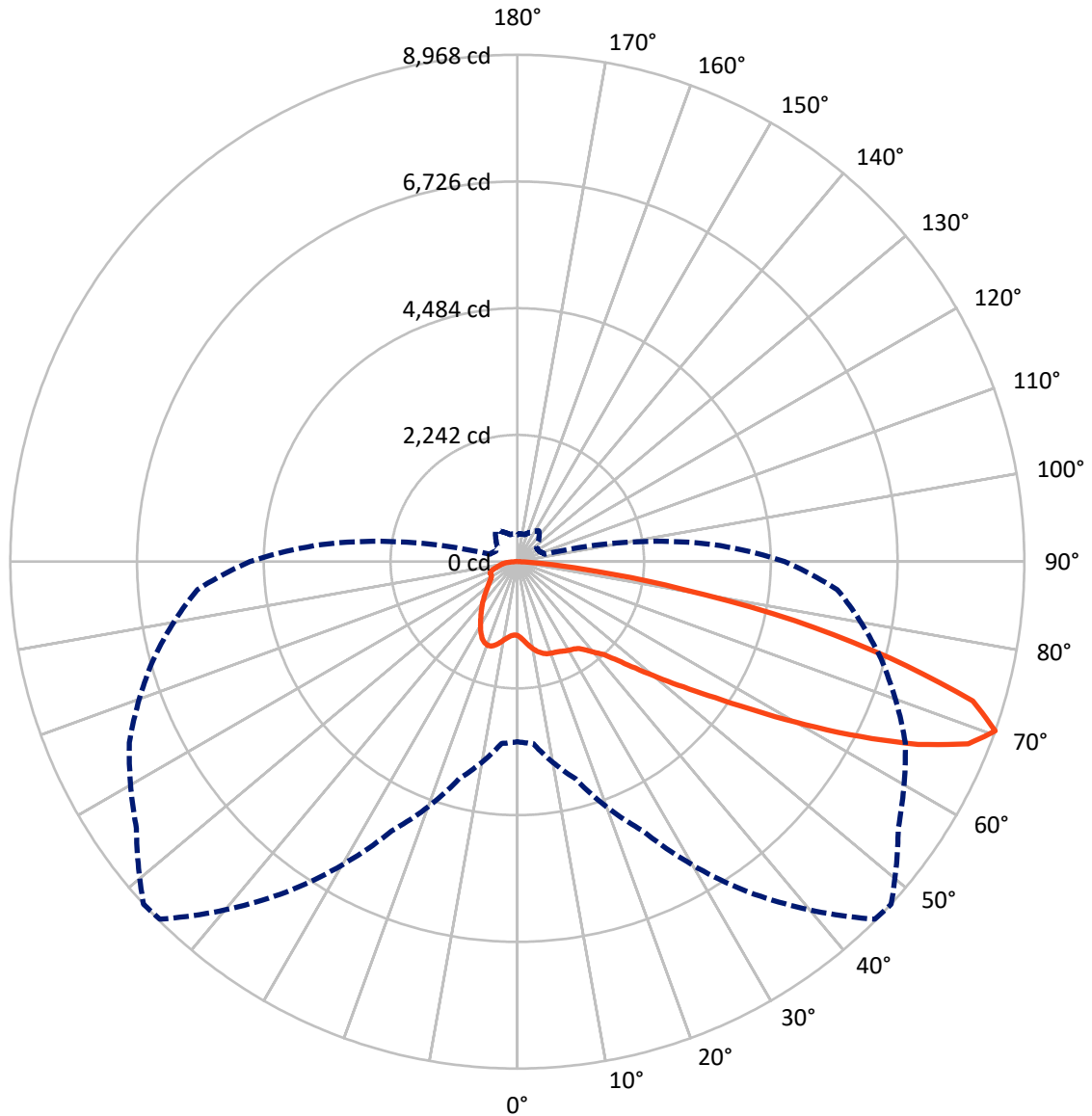
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2948.0	0.0	2948.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	10072.0	0.0	10072.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	13020.0	0.0	13020.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	1.0
10°-20°	450.4	3.5
20°-30°	749.0	5.8
30°-40°	1061.6	8.2
40°-50°	1567.2	12.0
50°-60°	2714.5	20.8
60°-70°	3834.3	29.4
70°-80°	2204.1	16.9
80°-90°	304.1	2.3
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°	13020.0	100.0
0°-180°	13020.0	100.0

**Coefficient of Utilization**



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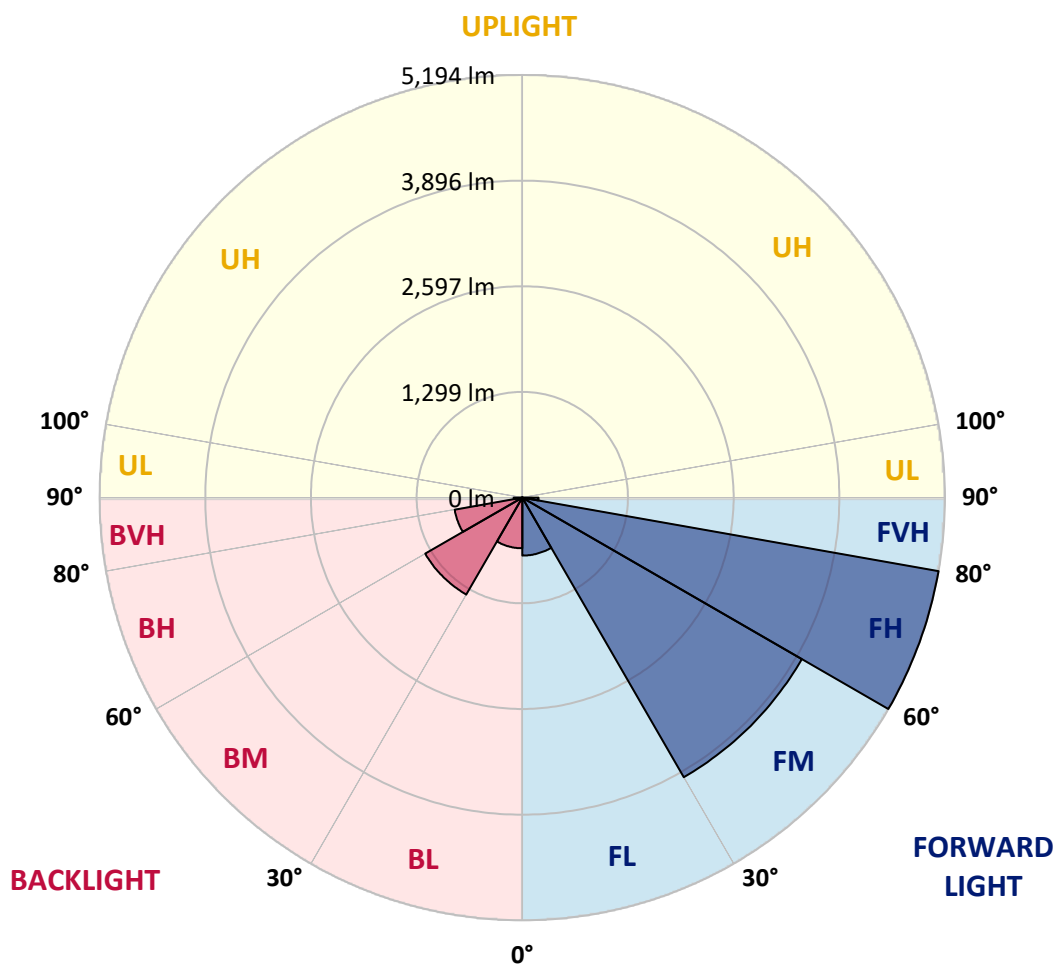
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.0	5.5			
FM	(30°-60°)	3966.9	30.5			
FH	(60°-80°)	5194.4	39.9			G3/7500
FVH	(80°-90°)	198.7	1.5			G2/225
BL	(0°-30°)	622.2	4.8	B2/1000		
BM	(30°-60°)	1376.4	10.6	B2/2500		
BH	(60°-80°)	844.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	105.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1
2.5°	1391.4	1386.5	1385.8	1375.3	1369.8	1359.3	1355.1	1345.4	1333.5	1321.7	1310.5
5°	1500.7	1500.7	1495.9	1481.2	1458.2	1434.6	1424.1	1405.3	1371.8	1344.7	1321.7
7.5°	1612.9	1614.3	1604.6	1583.0	1550.2	1511.9	1502.1	1474.3	1426.9	1387.2	1353.0
10°	1709.8	1709.8	1696.5	1667.3	1626.2	1584.3	1574.6	1543.2	1490.3	1440.8	1396.2
12.5°	1783.6	1783.6	1766.2	1727.9	1683.3	1645.7	1634.5	1604.6	1555.1	1500.0	1443.6
15°	1831.7	1828.2	1808.7	1765.5	1722.3	1689.6	1681.9	1656.8	1611.5	1555.8	1492.4
17.5°	1833.8	1832.4	1813.6	1777.3	1739.7	1717.4	1712.5	1695.8	1660.3	1607.3	1540.5
20°	1793.4	1796.2	1783.6	1757.8	1739.7	1730.0	1727.9	1722.3	1697.2	1647.7	1580.9
22.5°	1750.2	1755.0	1743.2	1729.3	1727.9	1737.6	1739.0	1740.4	1724.4	1676.3	1615.0
25°	1739.7	1743.2	1731.4	1718.8	1726.5	1752.3	1757.8	1763.4	1750.9	1710.5	1655.4
27.5°	1792.7	1789.9	1766.9	1739.7	1744.6	1779.4	1787.1	1793.4	1787.1	1752.3	1705.6
30°	1942.5	1933.4	1887.4	1808.0	1782.9	1807.3	1815.0	1832.4	1832.4	1806.6	1759.9
32.5°	2193.3	2175.9	2091.6	1935.5	1848.4	1833.8	1841.4	1870.0	1884.6	1864.4	1813.6
35°	2497.8	2479.6	2359.1	2149.4	1968.2	1886.7	1884.6	1916.7	1955.7	1910.4	1844.2
37.5°	2803.6	2784.8	2639.9	2404.4	2143.1	1998.2	1985.7	1996.8	2013.5	1930.6	1886.7
40°	3109.5	3087.2	2960.4	2689.3	2357.0	2145.9	2113.2	2063.0	2056.0	1996.8	1968.9
42.5°	3412.5	3392.3	3328.2	3009.1	2613.4	2290.1	2240.0	2153.6	2180.0	2144.5	2120.1
45°	3718.4	3719.8	3651.5	3368.0	2922.8	2556.3	2488.7	2353.5	2416.2	2403.0	2416.9
47.5°	3989.4	3985.9	3961.6	3716.3	3306.6	2899.1	2812.0	2655.2	2762.5	2811.3	2917.9
50°	4252.1	4250.0	4251.4	4111.4	3752.5	3306.6	3210.5	3046.1	3287.8	3457.1	3648.0
52.5°	4628.3	4640.2	4555.9	4518.9	4294.6	3788.1	3682.2	3512.2	3908.6	4175.5	4548.2
55°	5006.0	4996.2	4930.0	4968.3	4861.7	4358.0	4247.2	4112.1	4599.8	4891.7	5451.9
57.5°	5228.2	5231.7	5299.3	5486.7	5561.9	5068.7	4968.3	4863.8	5376.6	5583.5	6255.9
60°	5428.2	5444.2	5638.6	5992.5	6196.6	5941.6	5852.5	5750.7	6089.4	6171.6	6954.0
62.5°	5490.9	5540.3	5879.6	6409.1	6815.3	6926.8	6816.0	6591.7	6768.0	6735.9	7427.1
65°	5178.0	5245.6	5853.9	6565.2	7367.8	7861.8	7791.4	7374.8	7346.2	7153.2	7504.4
67.5°	4354.5	4422.1	5203.1	6237.8	7596.4	8671.4	8601.0	7946.1	7697.4	7192.3	6919.2
70°	3186.1	3228.6	3975.5	5251.9	7137.2	8943.1	8967.5	8224.8	7572.0	6662.1	5681.1
72.5°	1835.9	1929.9	2453.2	3694.7	5830.9	8256.2	8425.5	7645.1	6779.1	5557.8	3972.0
75°	789.4	791.5	1134.3	2037.9	3949.0	6636.3	6800.0	6337.4	5323.7	3843.1	2120.8
77.5°	375.5	382.5	498.9	909.9	2173.8	4585.1	5026.9	4477.1	3404.9	1846.3	801.2
80°	243.9	248.7	305.2	451.5	1066.0	2658.7	2966.6	2582.8	1502.1	659.8	345.6
82.5°	147.7	149.1	204.1	275.9	586.6	1203.9	1419.2	1121.0	641.0	395.0	203.4
85°	89.9	90.6	124.0	170.7	356.0	415.9	427.1	423.6	376.2	258.5	108.7
87.5°	43.2	44.6	64.1	80.8	140.0	128.9	121.9	141.4	177.7	139.3	46.7
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°	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1
2.5°	1305.7	1303.6	1298.7	1296.6	1295.2	1295.9	1295.2	1295.2	1295.9	1295.9	1295.9
5°	1311.9	1308.4	1300.8	1300.8	1305.0	1314.7	1323.8	1330.7	1338.4	1337.7	1337.7
7.5°	1339.1	1332.8	1323.8	1326.6	1337.0	1352.3	1368.4	1383.7	1399.0	1400.4	1399.7
10°	1378.8	1372.5	1362.8	1366.3	1383.0	1406.0	1426.2	1448.5	1465.2	1470.1	1468.7
12.5°	1424.1	1411.6	1403.2	1413.0	1439.4	1470.1	1489.6	1506.3	1518.2	1525.1	1522.3
15°	1470.1	1458.2	1448.5	1468.7	1500.7	1529.3	1539.1	1541.8	1543.9	1550.9	1549.5
17.5°	1514.7	1498.7	1495.2	1521.6	1552.3	1564.8	1559.3	1547.4	1538.4	1543.9	1543.2
20°	1554.4	1541.8	1540.5	1566.9	1578.8	1566.9	1543.2	1522.3	1506.3	1507.7	1507.0
22.5°	1592.0	1582.3	1583.7	1594.8	1576.0	1535.6	1496.6	1468.0	1450.6	1454.1	1456.1
25°	1633.8	1624.1	1627.5	1609.4	1547.4	1477.1	1420.6	1396.2	1389.3	1396.2	1401.1
27.5°	1688.2	1681.9	1679.8	1610.1	1496.6	1390.7	1326.6	1317.5	1323.8	1339.1	1346.8
30°	1746.7	1746.7	1735.5	1598.3	1426.9	1286.8	1231.1	1232.5	1254.1	1275.7	1283.4
32.5°	1803.1	1815.0	1780.1	1566.2	1337.0	1185.8	1143.3	1144.7	1163.5	1190.0	1197.0
35°	1849.8	1883.9	1818.4	1507.7	1231.1	1100.8	1068.8	1050.0	1050.7	1070.9	1076.4
37.5°	1913.9	1977.3	1840.7	1420.6	1118.2	1028.4	992.1	959.4	937.8	929.4	929.4
40°	2025.4	2118.7	1846.3	1291.7	1011.6	959.4	907.8	868.8	827.0	789.4	782.4
42.5°	2214.2	2331.9	1835.2	1143.3	915.5	883.4	833.3	785.2	727.4	674.4	670.2
45°	2548.6	2609.2	1805.2	989.3	829.8	810.3	761.5	709.3	648.0	600.6	597.1
47.5°	3084.4	2998.7	1765.5	852.8	751.8	746.2	708.6	648.0	586.6	553.9	550.4
50°	3866.8	3611.8	1759.9	753.9	689.1	691.8	661.2	605.5	551.8	524.6	520.5
52.5°	4808.8	4352.4	1796.8	684.2	634.0	644.5	629.1	577.6	530.2	507.2	503.0
55°	5722.9	5018.5	1819.1	629.8	582.5	602.0	604.1	560.9	517.7	494.7	491.9
57.5°	6464.9	5520.1	1720.2	580.4	537.9	567.8	583.2	551.1	511.4	494.0	491.2
60°	6981.2	5757.0	1438.7	536.5	505.1	540.7	575.5	551.8	526.7	528.8	530.2
62.5°	7145.6	5651.8	1079.2	503.7	482.8	531.6	588.0	580.4	554.6	570.6	573.4
65°	6873.2	5217.1	782.4	478.0	463.3	537.9	625.7	601.3	544.8	556.7	556.7
67.5°	5961.2	4494.6	608.9	454.3	441.0	549.7	663.3	599.2	521.8	535.8	523.2
70°	4728.7	3476.6	507.2	427.8	417.3	532.3	666.8	577.6	494.7	497.5	473.8
72.5°	3138.0	2285.9	436.1	402.7	381.1	478.6	638.2	549.7	468.2	452.2	428.5
75°	1537.7	1139.8	380.4	371.4	333.7	416.6	599.2	523.2	439.6	414.5	401.3
77.5°	595.7	484.9	324.7	331.6	290.5	367.2	547.6	485.6	402.0	367.9	357.4
80°	289.1	275.2	266.1	276.6	239.0	312.8	500.2	452.9	367.2	329.5	314.2
82.5°	179.8	170.0	204.1	215.3	183.9	285.7	474.5	425.0	323.3	273.1	260.6
85°	91.3	97.5	136.6	147.0	131.7	227.1	390.9	319.1	233.4	193.7	195.1
87.5°	34.8	46.7	71.8	77.3	70.4	119.8	215.3	186.0	149.8	101.7	94.1
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)