

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: P319148

Luminaire Tested: **GAN-SA4A-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13723 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

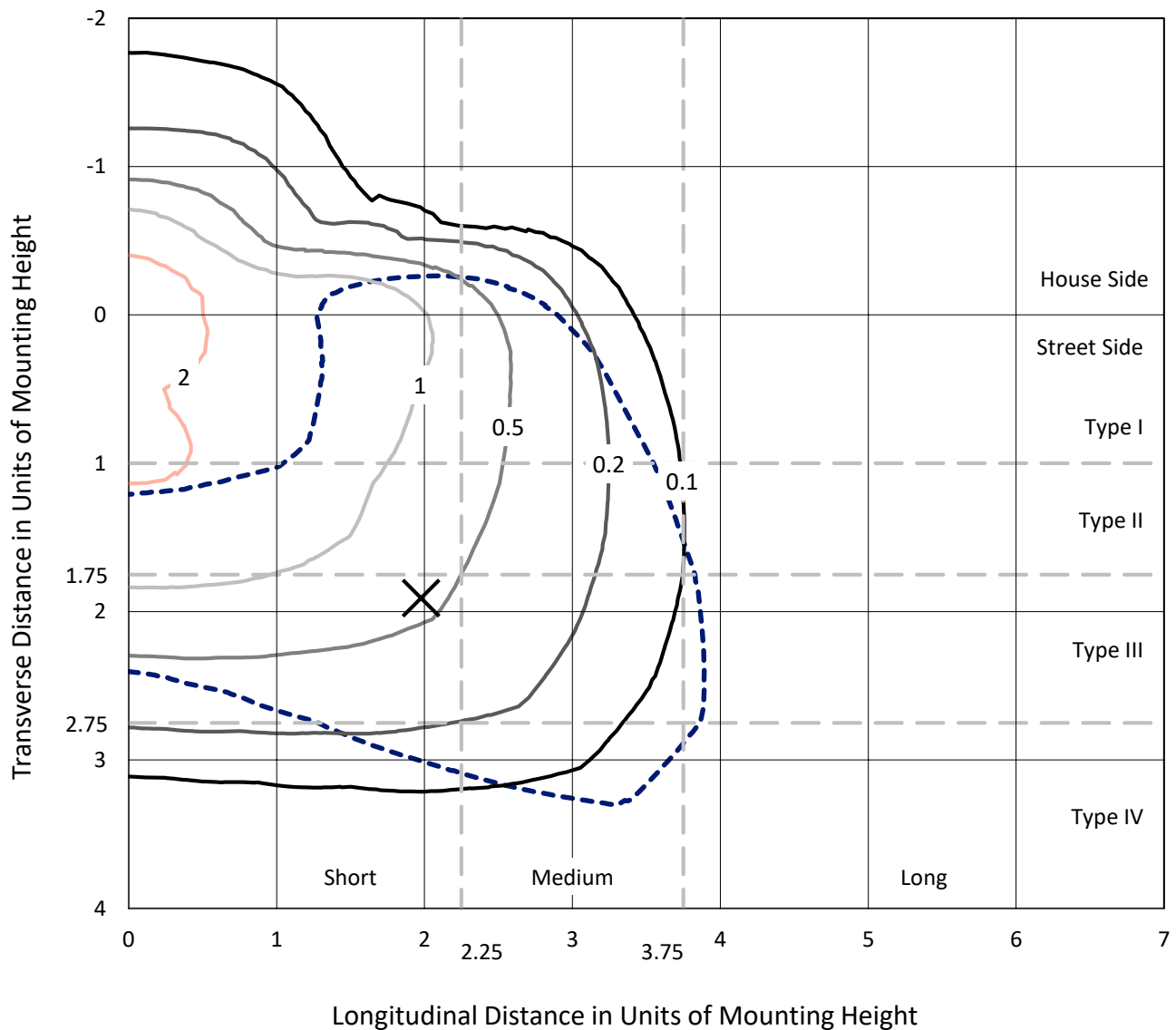
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

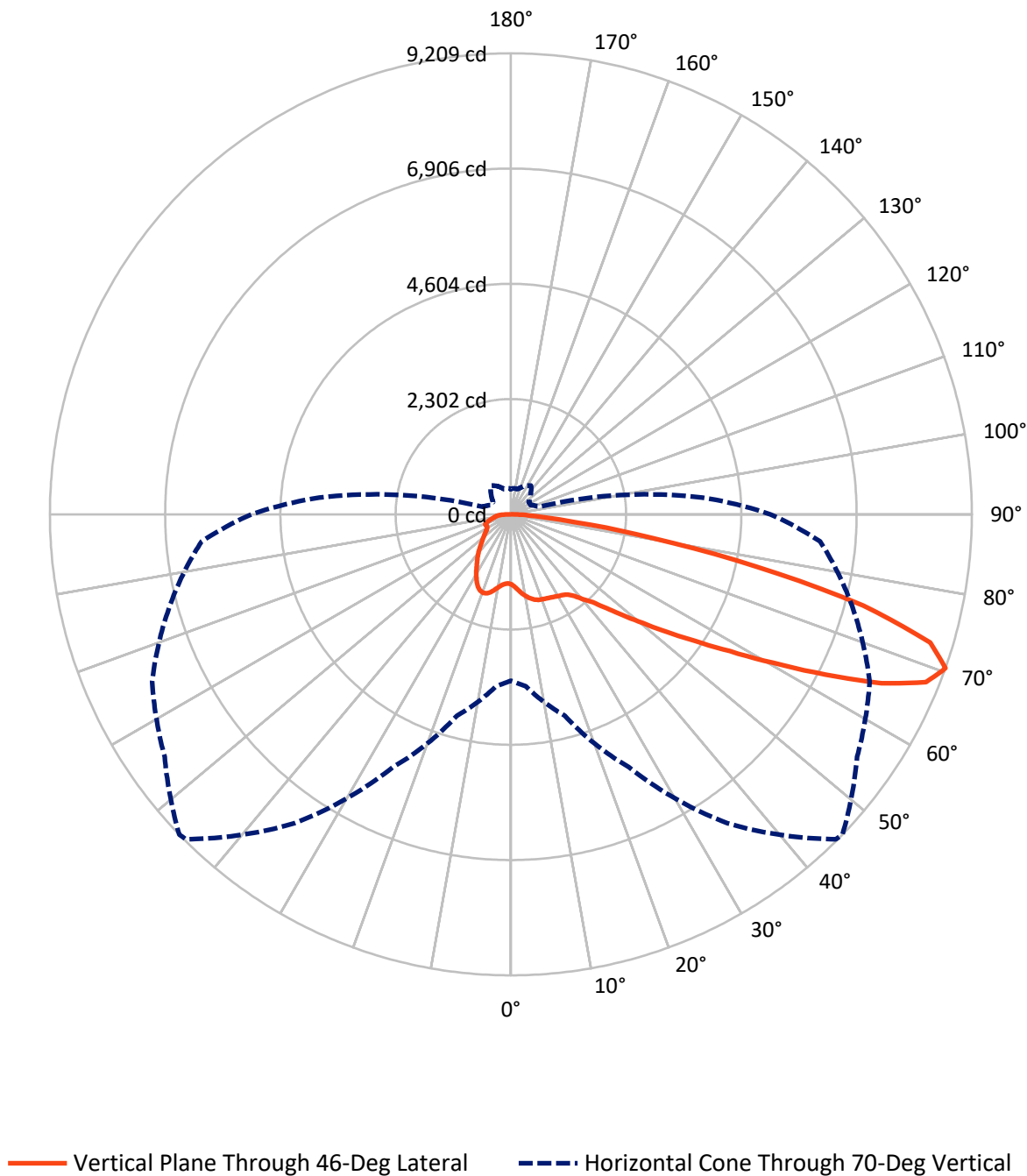
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3145.3	0.0	3145.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10577.7	0.0	10577.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	13723.0	0.0	13723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.0
10°-20°	474.9	3.5
20°-30°	791.8	5.8
30°-40°	1123.6	8.2
40°-50°	1652.7	12.0
50°-60°	2798.8	20.4
60°-70°	3972.9	29.0
70°-80°	2413.6	17.6
80°-90°	352.2	2.6
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°	13723.0	100.0
0°-180°	13723.0	100.0

Coefficient of Utilization



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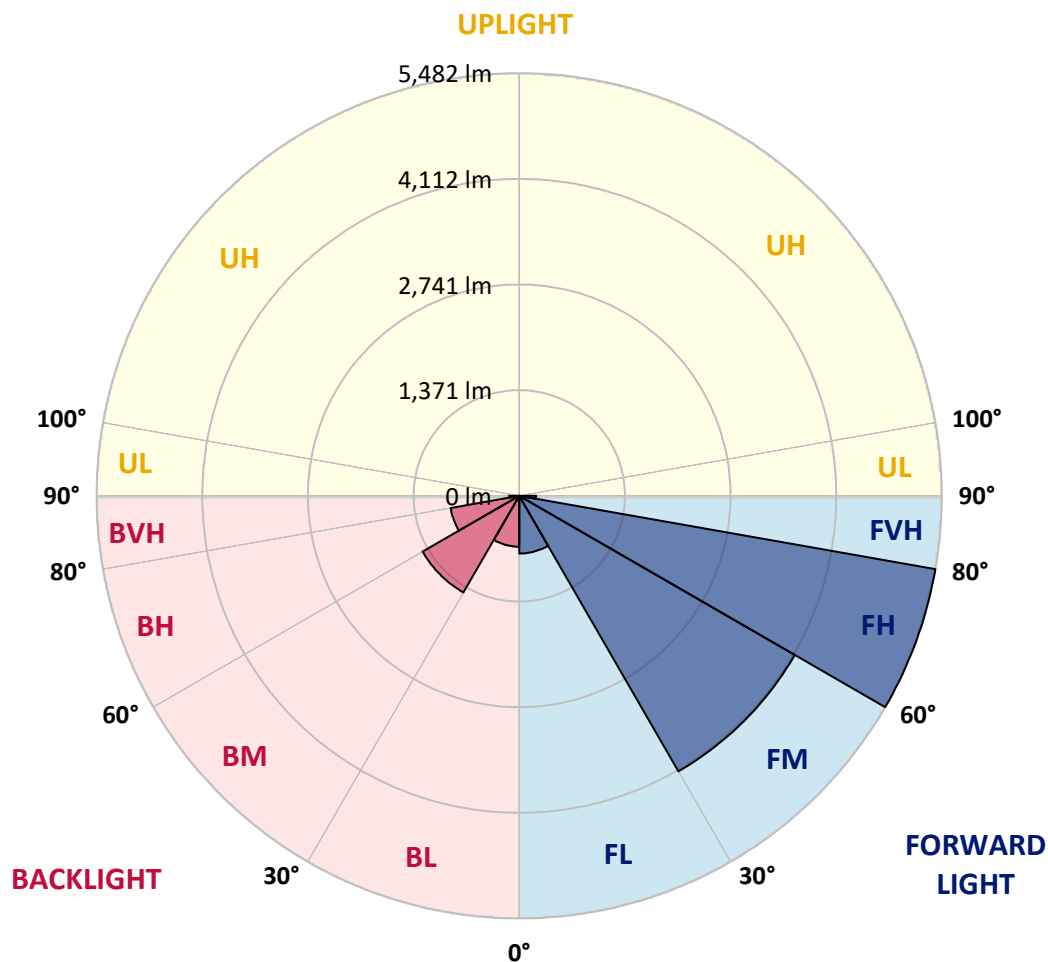
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	748.8	5.5			
FM	(30°-60°)	4127.3	30.1			
FH	(60°-80°)	5482.3	39.9			G3/7500
FVH	(80°-90°)	219.4	1.6			G2/225
BL	(0°-30°)	660.4	4.8	B2/1000		
BM	(30°-60°)	1447.8	10.6	B2/2500		
BH	(60°-80°)	904.2	6.6	B2/1000		G2/1000
BVH	(80°-90°)	132.8	1.0			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°	46°	55°	65°	75°	85°
0°	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1
2.5°	1468.1	1469.0	1470.9	1466.2	1453.1	1449.3	1447.9	1434.3	1425.3	1412.2	1400.9
5°	1585.5	1586.4	1583.6	1570.5	1541.3	1519.7	1517.9	1486.9	1458.7	1428.6	1406.1
7.5°	1708.1	1709.5	1700.6	1675.7	1634.8	1597.2	1594.9	1552.6	1509.9	1464.3	1430.5
10°	1816.6	1810.9	1796.4	1761.6	1713.2	1667.2	1665.3	1621.2	1571.9	1516.9	1471.8
12.5°	1888.9	1884.2	1865.4	1823.1	1770.1	1727.8	1724.0	1683.2	1635.3	1575.2	1521.1
15°	1928.8	1932.1	1906.7	1858.8	1807.2	1771.5	1768.2	1739.1	1696.3	1635.7	1573.7
17.5°	1934.0	1936.8	1912.4	1864.9	1822.7	1798.2	1796.8	1777.6	1746.6	1688.3	1623.5
20°	1903.9	1905.8	1885.6	1846.6	1818.9	1811.4	1810.9	1802.5	1779.4	1727.8	1664.9
22.5°	1860.2	1861.6	1847.1	1818.9	1809.5	1821.2	1824.5	1821.2	1804.8	1756.4	1697.3
25°	1849.4	1848.5	1833.5	1804.8	1812.8	1837.7	1841.9	1843.3	1832.0	1789.8	1738.6
27.5°	1901.6	1898.3	1869.6	1823.6	1828.8	1858.8	1864.5	1878.1	1871.0	1833.9	1785.6
30°	2052.3	2046.7	1988.0	1895.0	1869.6	1885.1	1892.2	1913.8	1915.2	1884.2	1848.0
32.5°	2306.8	2299.8	2194.6	2028.4	1938.7	1911.9	1918.5	1950.9	1968.2	1944.3	1905.3
35°	2628.6	2620.6	2482.5	2255.2	2054.2	1963.1	1967.8	1993.6	2028.4	1994.5	1942.9
37.5°	2963.9	2944.6	2811.7	2521.9	2237.8	2072.5	2072.5	2075.8	2092.2	2021.8	1987.0
40°	3297.3	3278.1	3157.8	2835.7	2475.4	2244.9	2234.1	2161.3	2148.1	2087.5	2075.8
42.5°	3607.3	3601.6	3530.7	3190.2	2754.4	2414.4	2399.4	2275.9	2278.7	2241.1	2241.6
45°	3937.0	3937.0	3879.2	3548.1	3079.4	2686.8	2671.8	2490.0	2518.2	2500.8	2542.6
47.5°	4206.1	4214.5	4206.5	3921.0	3457.5	3032.9	3005.7	2786.8	2865.7	2925.4	3047.0
50°	4480.8	4493.9	4495.4	4330.0	3914.4	3444.3	3413.3	3180.8	3357.0	3527.9	3766.9
52.5°	4879.5	4909.1	4791.2	4738.2	4474.2	3932.7	3902.2	3687.6	3981.6	4221.6	4633.4
55°	5249.1	5223.3	5139.2	5172.1	5073.5	4488.8	4465.8	4277.4	4677.6	4989.4	5524.3
57.5°	5449.2	5447.3	5531.8	5672.7	5719.7	5174.4	5155.2	4972.0	5462.3	5696.7	6360.7
60°	5684.0	5687.3	5896.7	6216.6	6410.1	6028.2	6019.8	5880.8	6224.5	6357.0	7016.8
62.5°	5716.9	5776.0	6136.7	6687.1	7056.3	7025.7	7044.5	6699.4	6906.5	6883.9	7506.7
65°	5338.8	5416.8	6069.6	6829.4	7698.7	8116.7	8134.1	7522.6	7444.2	7334.3	7681.8
67.5°	4563.9	4679.4	5388.6	6520.0	7910.5	8923.1	8947.5	8160.9	7890.3	7486.9	7260.1
70°	3321.3	3449.5	4163.3	5568.5	7533.0	9180.9	9208.6	8443.1	7907.3	7052.5	6197.8
72.5°	2006.3	2106.8	2695.2	4099.4	6357.9	8711.3	8760.6	8085.2	7219.2	5973.8	4576.6
75°	881.0	946.8	1303.2	2362.3	4551.7	7207.5	7269.0	6920.5	5865.7	4341.3	2705.1
77.5°	375.2	394.0	534.4	1026.2	2573.1	4925.1	5009.6	5056.6	3979.7	2362.3	1143.1
80°	233.9	241.4	302.4	464.5	1204.1	2766.2	2857.3	2975.1	1976.2	868.4	399.2
82.5°	142.3	150.8	201.0	280.8	627.0	1253.9	1297.6	1380.7	766.9	375.2	206.6
85°	85.5	91.6	123.0	177.5	356.9	493.1	492.6	544.8	361.1	241.4	109.0
87.5°	40.9	45.6	65.7	92.0	179.9	185.0	173.3	196.3	219.3	158.3	54.9
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°	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1
2.5°	1397.2	1395.3	1389.2	1384.5	1383.5	1380.7	1378.4	1379.8	1381.7	1382.1	1382.1
5°	1396.7	1391.5	1383.5	1380.3	1384.5	1390.1	1397.2	1406.6	1412.2	1416.4	1419.2
7.5°	1419.2	1409.4	1400.5	1398.6	1407.0	1422.1	1438.0	1457.7	1471.4	1480.8	1482.6
10°	1456.8	1444.6	1435.7	1437.6	1452.6	1474.2	1496.7	1522.1	1542.8	1555.4	1556.4
12.5°	1500.0	1488.3	1479.8	1487.8	1512.7	1539.0	1562.5	1584.6	1603.3	1616.0	1616.0
15°	1549.8	1541.3	1531.5	1549.8	1583.6	1607.1	1617.0	1627.8	1638.1	1647.5	1645.6
17.5°	1597.7	1589.7	1584.6	1606.2	1641.4	1652.2	1645.6	1637.6	1637.6	1642.8	1643.7
20°	1639.0	1632.0	1635.3	1656.4	1674.7	1663.4	1639.0	1613.7	1603.3	1606.2	1609.0
22.5°	1675.2	1671.9	1681.8	1691.6	1678.5	1639.0	1593.9	1559.7	1547.0	1546.0	1547.0
25°	1717.5	1717.0	1729.2	1711.4	1653.1	1580.3	1519.7	1486.4	1479.4	1485.0	1494.4
27.5°	1770.1	1775.2	1781.3	1716.0	1601.5	1491.6	1430.0	1407.0	1414.1	1427.7	1436.6
30°	1837.2	1851.3	1838.2	1704.3	1527.3	1390.1	1331.4	1324.8	1344.1	1363.4	1372.7
32.5°	1902.5	1924.6	1892.6	1673.8	1431.4	1282.6	1237.0	1235.1	1258.6	1277.4	1290.6
35°	1955.1	1998.8	1933.5	1613.2	1320.6	1183.5	1150.1	1137.5	1145.9	1168.0	1183.0
37.5°	2023.7	2096.5	1961.7	1520.7	1200.4	1101.8	1062.8	1033.7	1026.2	1035.1	1042.6
40°	2149.1	2245.3	1974.8	1391.5	1083.0	1020.0	980.6	937.9	908.3	886.7	887.1
42.5°	2353.8	2439.3	1966.4	1234.7	974.5	940.2	895.6	846.3	798.4	749.5	745.8
45°	2686.3	2727.6	1941.0	1068.4	879.2	856.6	814.8	765.5	701.6	646.2	641.1
47.5°	3218.4	3126.8	1901.6	923.3	795.1	785.7	747.2	690.4	622.7	578.1	574.4
50°	3944.0	3703.1	1882.3	807.8	720.9	723.7	692.2	632.1	568.3	535.4	531.6
52.5°	4811.9	4374.2	1919.4	718.5	661.2	671.1	647.6	591.3	537.7	511.9	508.1
55°	5712.2	5069.2	1959.3	653.7	604.9	624.1	616.2	569.7	521.3	497.3	494.1
57.5°	6482.8	5588.2	1879.5	601.1	554.6	584.7	591.7	556.0	512.8	491.2	487.5
60°	6968.0	5797.2	1670.0	551.8	514.7	553.2	577.7	552.3	516.1	514.3	511.4
62.5°	7198.1	5778.9	1355.8	512.8	489.8	539.6	588.0	573.4	553.7	570.6	572.0
65°	7094.8	5502.7	1009.7	487.0	472.0	544.8	619.0	613.3	564.5	581.4	583.8
67.5°	6414.8	4843.8	747.7	464.5	452.3	559.3	675.3	626.5	543.4	555.6	548.1
70°	5184.8	3840.2	576.7	439.1	432.1	557.5	700.7	618.5	520.4	523.2	503.0
72.5°	3575.3	2618.7	469.2	415.6	402.9	508.1	682.9	598.8	501.1	479.5	452.7
75°	1944.3	1405.6	398.7	391.2	351.8	446.2	650.0	584.7	483.7	455.1	440.0
77.5°	765.0	583.3	346.1	357.9	307.6	394.0	613.3	557.9	459.8	422.2	414.7
80°	312.3	297.7	286.9	309.5	264.4	344.7	569.2	526.5	431.1	391.7	376.6
82.5°	177.1	185.0	223.1	244.2	214.6	317.5	548.1	501.1	396.8	350.8	333.0
85°	90.6	108.5	155.4	175.2	157.8	270.0	504.9	438.6	318.4	268.6	270.0
87.5°	43.7	60.6	98.2	109.9	102.4	195.4	377.1	317.9	248.0	196.3	190.2
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)