

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: P318547

Luminaire Tested: **GAN-SA3A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11309 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

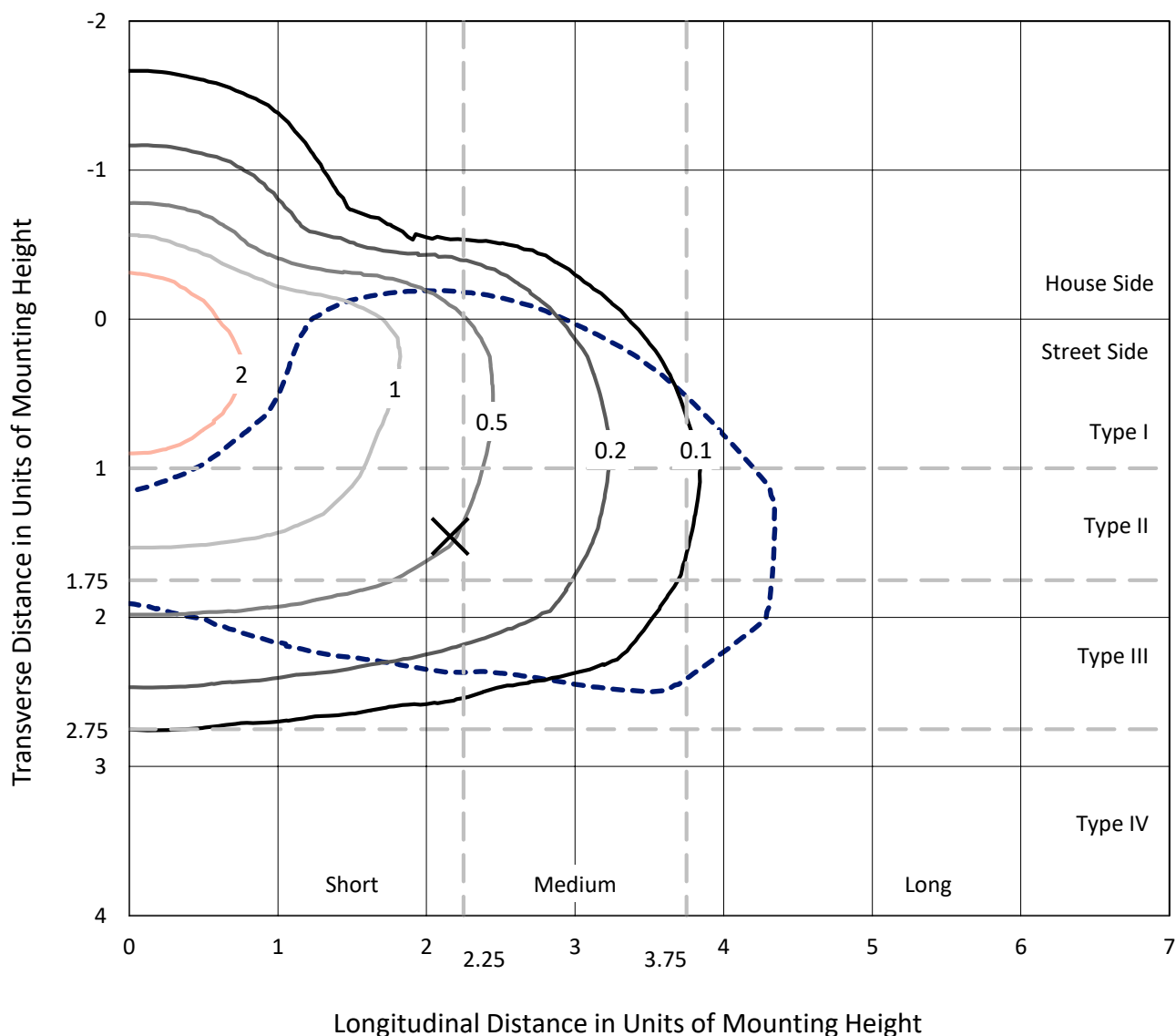
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

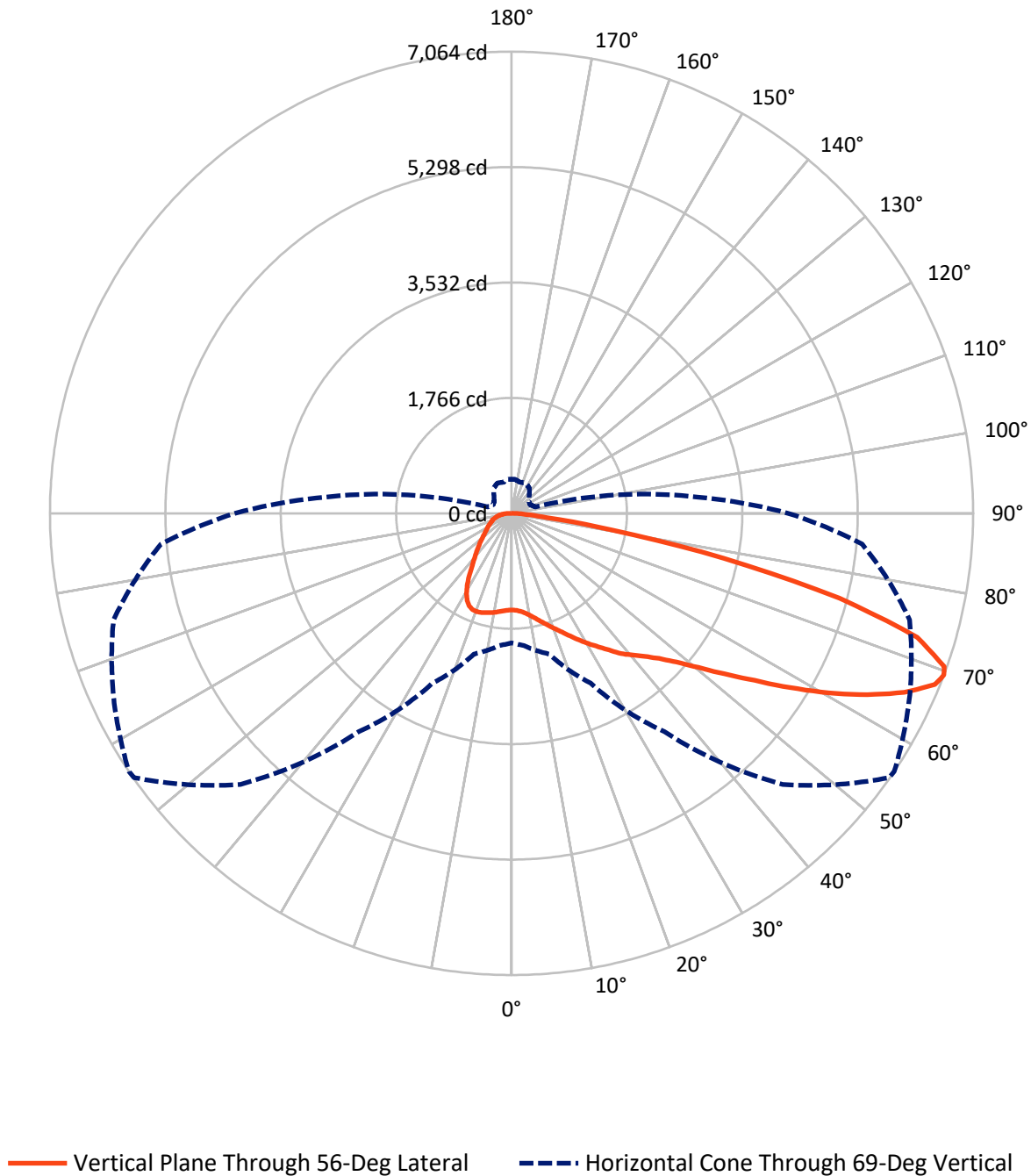
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2518.5	0.0	2518.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8790.5	0.0	8790.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	11309.0	0.0	11309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	1.3
10°-20°	466.9	4.1
20°-30°	815.1	7.2
30°-40°	1170.9	10.4
40°-50°	1620.4	14.3
50°-60°	2374.1	21.0
60°-70°	2894.5	25.6
70°-80°	1600.3	14.2
80°-90°	221.6	2.0
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°	11309.0	100.0
0°-180°	11309.0	100.0

Coefficient of Utilization



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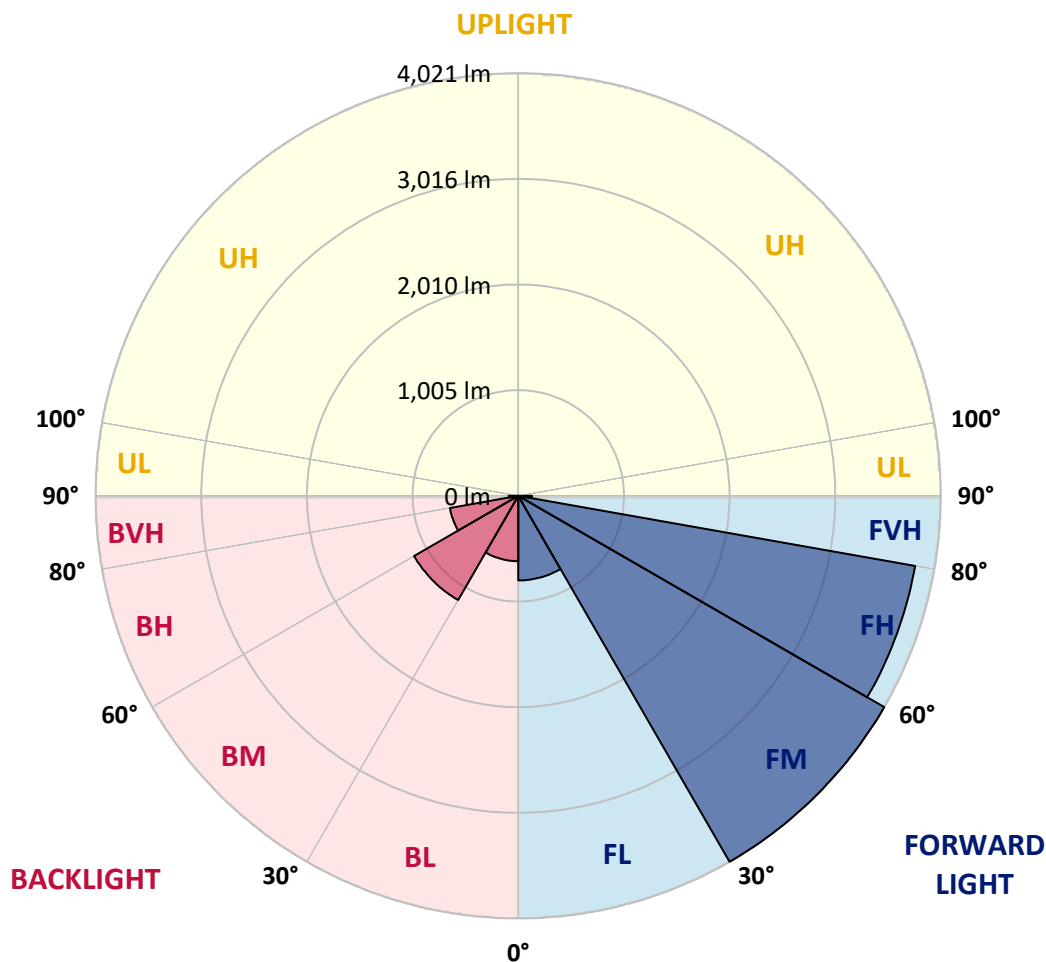
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	804.9	7.1			
FM	(30°-60°)	4020.8	35.6			
FH	(60°-80°)	3834.3	33.9			G2/5000
FVH	(80°-90°)	130.6	1.2			G2/225
BL	(0°-30°)	622.4	5.5	B2/1000		
BM	(30°-60°)	1144.6	10.1	B2/2500		
BH	(60°-80°)	660.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	91.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5
2.5°	1487.8	1489.4	1488.2	1491.3	1487.8	1490.2	1488.2	1488.2	1487.1	1483.5	1479.7
5°	1511.2	1514.3	1512.4	1515.5	1511.2	1512.0	1508.5	1508.5	1505.0	1497.6	1489.8
7.5°	1547.8	1551.3	1549.8	1552.9	1547.0	1547.0	1542.4	1542.0	1535.0	1522.9	1513.9
10°	1591.5	1596.1	1594.6	1599.3	1594.6	1596.1	1591.5	1591.5	1582.1	1565.0	1553.7
12.5°	1655.0	1660.8	1656.5	1656.1	1654.2	1657.3	1653.4	1652.6	1644.1	1620.7	1605.1
15°	1739.9	1746.1	1737.2	1736.4	1725.5	1724.3	1724.3	1723.1	1717.7	1689.6	1663.9
17.5°	1837.7	1839.6	1831.8	1819.4	1805.3	1796.4	1795.2	1798.3	1798.3	1765.6	1724.7
20°	1933.5	1937.0	1930.8	1916.8	1898.8	1885.6	1876.2	1882.5	1882.1	1843.1	1785.1
22.5°	2037.9	2046.1	2036.8	2018.8	1997.8	1983.0	1966.6	1972.1	1972.5	1924.6	1844.3
25°	2173.1	2165.7	2159.9	2134.5	2104.5	2089.4	2074.2	2079.6	2078.1	2012.2	1905.5
27.5°	2292.7	2294.3	2286.5	2259.6	2224.9	2191.4	2190.6	2194.2	2188.3	2103.4	1963.1
30°	2431.8	2432.6	2421.7	2397.5	2359.7	2316.5	2306.4	2312.2	2299.7	2189.9	2023.9
32.5°	2570.1	2574.0	2561.9	2532.7	2502.3	2449.7	2429.5	2433.4	2402.2	2278.3	2086.6
35°	2691.3	2696.7	2692.8	2673.3	2640.2	2595.0	2570.9	2568.5	2530.0	2386.6	2169.6
37.5°	2814.8	2819.8	2815.5	2799.2	2785.9	2738.0	2725.2	2725.2	2658.2	2497.3	2275.2
40°	2941.8	2949.6	2944.5	2921.9	2910.6	2888.8	2858.0	2850.6	2778.1	2630.1	2447.4
42.5°	3059.8	3069.9	3090.2	3077.0	3054.0	3057.1	2995.1	2991.2	2938.3	2826.5	2663.6
45°	3227.3	3242.1	3276.4	3266.3	3261.6	3244.5	3170.8	3167.3	3147.1	3090.6	2932.0
47.5°	3410.1	3430.3	3492.3	3494.2	3544.5	3512.1	3412.0	3399.9	3404.6	3406.9	3259.7
50°	3578.4	3600.6	3702.2	3750.2	3868.6	3875.6	3715.5	3704.6	3722.9	3776.7	3641.5
52.5°	3712.8	3740.8	3867.8	4015.9	4218.8	4276.5	4089.1	4080.9	4094.6	4187.3	4073.1
55°	3811.3	3841.7	3980.0	4249.6	4573.7	4675.4	4519.2	4511.4	4520.0	4638.0	4542.6
57.5°	3834.3	3841.7	4042.4	4407.0	4873.3	5117.6	5045.5	5030.0	4987.9	5090.7	5060.7
60°	3726.4	3756.0	3990.9	4462.3	5105.1	5553.6	5595.6	5576.2	5458.1	5542.3	5518.1
62.5°	3507.4	3560.4	3798.9	4378.2	5195.9	5909.6	6135.2	6111.8	5908.5	5963.0	5846.9
65°	3149.8	3172.4	3422.9	4087.9	5080.6	6137.5	6616.4	6604.7	6348.7	6263.4	5907.7
67.5°	2510.1	2552.6	2765.3	3481.3	4608.8	6110.7	6988.4	6987.2	6636.2	6374.8	5692.3
69°	1983.0	2027.0	2229.6	2867.7	4078.2	5864.8	7050.7	7064.4	6717.3	6307.0	5384.5
70°	1580.9	1632.0	1771.1	2415.4	3607.2	5540.7	6998.9	7023.5	6701.7	6195.2	5100.5
72.5°	672.8	714.1	813.1	1245.1	2198.4	4137.4	6399.4	6492.1	6340.5	5670.0	4215.3
75°	293.7	306.6	351.4	507.6	975.9	2251.8	5013.2	5184.6	5421.5	4792.7	3140.1
77.5°	215.1	220.5	245.1	298.0	437.9	850.5	3223.8	3323.6	3909.9	3487.6	1926.1
80°	166.4	170.2	189.3	218.9	286.0	344.0	1470.3	1556.0	2198.4	1791.3	802.2
82.5°	132.5	135.2	148.4	161.3	197.5	208.4	488.2	541.5	811.5	494.8	212.3
85°	123.1	126.2	130.9	117.7	126.6	122.3	211.2	220.9	245.1	194.4	88.8
87.5°	55.7	65.8	129.7	91.6	67.4	53.8	86.5	90.4	101.7	102.1	39.3
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°	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5	1478.5
2.5°	1482.0	1480.8	1482.8	1478.1	1483.9	1483.5	1481.6	1482.4	1486.3	1485.9	1486.3
5°	1490.9	1490.2	1492.5	1489.0	1496.0	1498.4	1498.7	1502.2	1506.5	1507.7	1507.7
7.5°	1513.5	1513.5	1514.7	1510.0	1514.7	1514.3	1512.4	1515.9	1520.2	1520.6	1520.2
10°	1552.5	1552.9	1550.9	1538.9	1535.0	1524.5	1514.7	1515.1	1520.6	1524.8	1526.0
12.5°	1601.6	1600.0	1591.5	1569.3	1552.9	1531.5	1521.3	1520.9	1526.4	1529.9	1531.1
15°	1657.7	1653.4	1631.2	1595.0	1566.1	1545.1	1528.7	1524.8	1521.7	1517.8	1518.2
17.5°	1710.7	1700.9	1663.9	1613.7	1583.3	1555.2	1523.7	1498.4	1480.8	1470.7	1467.6
20°	1764.4	1745.3	1692.0	1631.2	1592.6	1541.6	1480.8	1429.4	1397.4	1382.6	1379.9
22.5°	1813.5	1782.7	1718.1	1649.5	1585.2	1495.6	1400.2	1325.4	1281.0	1261.1	1262.7
25°	1861.4	1818.6	1745.3	1662.4	1547.8	1414.6	1288.0	1196.0	1144.6	1122.4	1121.6
27.5°	1903.5	1854.8	1775.0	1651.8	1478.1	1299.3	1155.1	1065.5	1022.7	1003.6	1000.5
30°	1951.8	1900.4	1814.3	1611.7	1376.0	1166.0	1025.4	962.3	931.9	912.8	909.3
32.5°	2010.7	1962.3	1846.6	1538.9	1245.5	1027.0	924.1	880.1	852.4	831.0	827.1
35°	2096.4	2044.2	1854.8	1434.5	1102.1	917.1	849.7	804.5	767.1	739.4	736.7
37.5°	2203.9	2146.6	1836.1	1299.3	963.1	845.8	787.7	732.0	683.3	644.4	638.1
40°	2358.9	2272.5	1784.3	1143.4	860.6	790.9	727.4	663.9	603.5	557.9	548.9
42.5°	2545.2	2420.1	1704.8	988.4	785.4	735.2	667.4	588.7	531.0	498.7	494.0
45°	2782.0	2573.6	1594.6	852.8	711.4	679.4	602.7	530.2	494.4	470.6	466.7
47.5°	3052.4	2745.8	1478.9	742.6	648.7	627.2	550.9	504.1	475.7	457.0	453.5
50°	3384.7	2940.2	1356.2	652.2	585.5	564.5	526.3	489.7	467.1	452.7	449.2
52.5°	3759.5	3159.5	1267.7	580.9	533.3	518.2	513.5	481.9	463.6	452.7	449.2
55°	4163.1	3382.8	1172.3	520.9	488.2	492.4	504.9	482.7	470.2	457.0	451.9
57.5°	4567.1	3613.4	1065.9	470.2	452.3	473.3	499.1	484.3	473.7	460.9	456.2
60°	4886.6	3759.5	901.1	427.8	423.9	452.3	485.0	472.6	458.9	459.3	458.5
62.5°	5035.8	3751.7	719.2	390.0	395.4	423.9	462.4	454.3	443.0	458.2	459.3
65°	4952.0	3564.7	559.8	355.7	365.0	394.3	439.1	445.3	449.2	478.4	482.3
67.5°	4600.6	3200.8	433.6	325.7	337.4	374.0	441.4	485.0	490.1	520.9	520.5
69°	4237.1	2859.6	376.7	310.1	323.7	379.1	471.8	510.4	491.3	524.0	519.3
70°	3932.5	2589.6	346.3	299.6	317.5	388.0	492.0	510.0	485.4	513.5	505.7
72.5°	3028.6	1863.0	293.7	280.1	296.5	371.3	497.9	498.7	471.8	477.2	464.0
75°	2077.3	1177.3	256.3	253.6	264.5	334.7	479.2	476.5	436.3	428.5	417.6
77.5°	1145.4	598.0	217.8	228.3	235.7	296.5	435.6	431.7	398.5	382.2	378.3
80°	441.8	261.8	183.9	203.0	207.6	256.7	381.8	378.3	350.6	329.6	323.7
82.5°	166.7	137.1	151.9	175.7	174.1	211.9	323.4	321.4	294.5	263.8	254.4
85°	77.1	82.2	120.4	144.9	133.6	157.0	258.7	262.2	229.5	192.8	192.8
87.5°	32.7	46.0	85.3	109.5	90.0	106.0	189.7	181.2	166.4	115.3	108.3
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)