

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: P318307

Luminaire Tested: **GAN-SA3A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318307
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-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11901 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

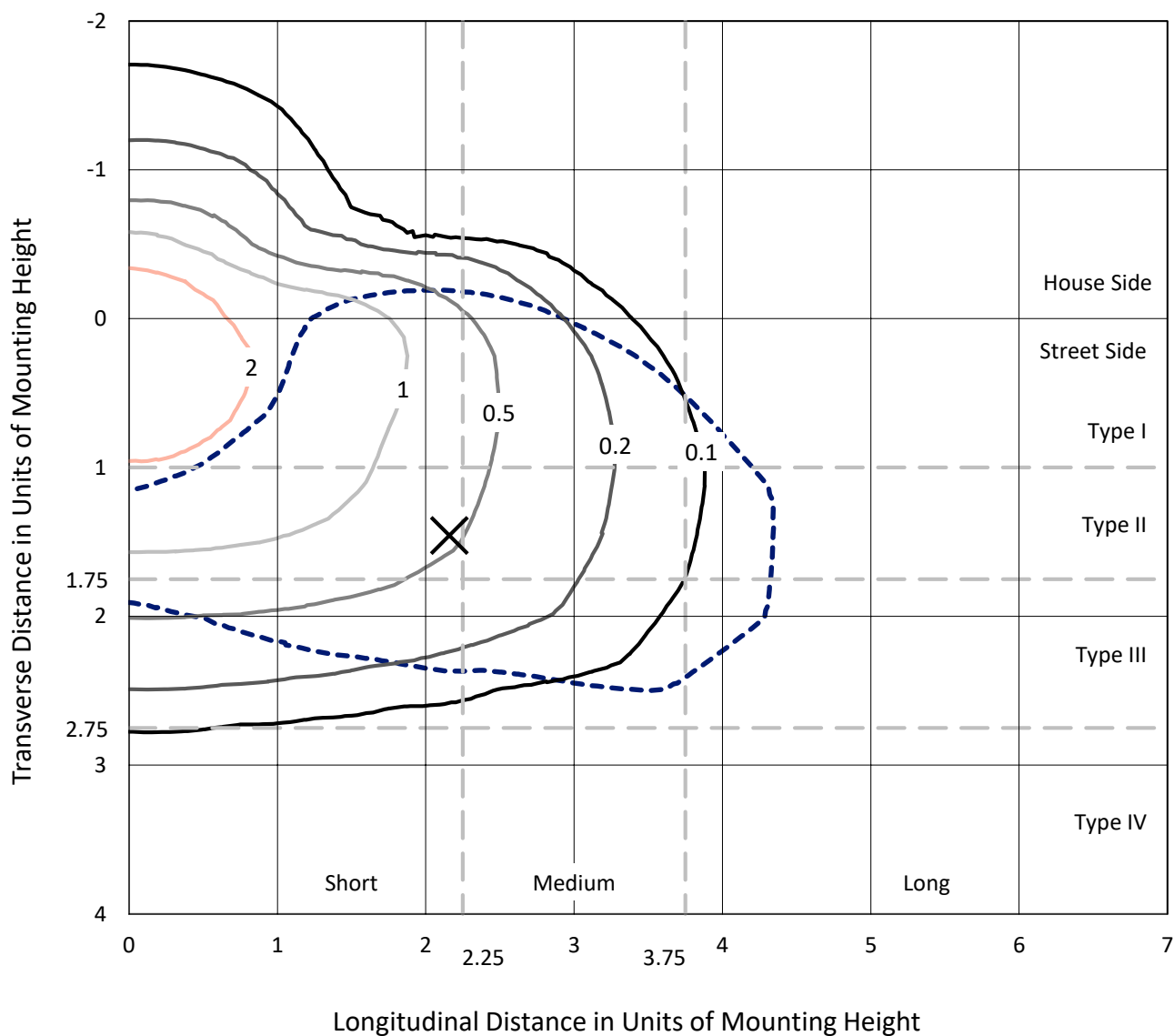
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

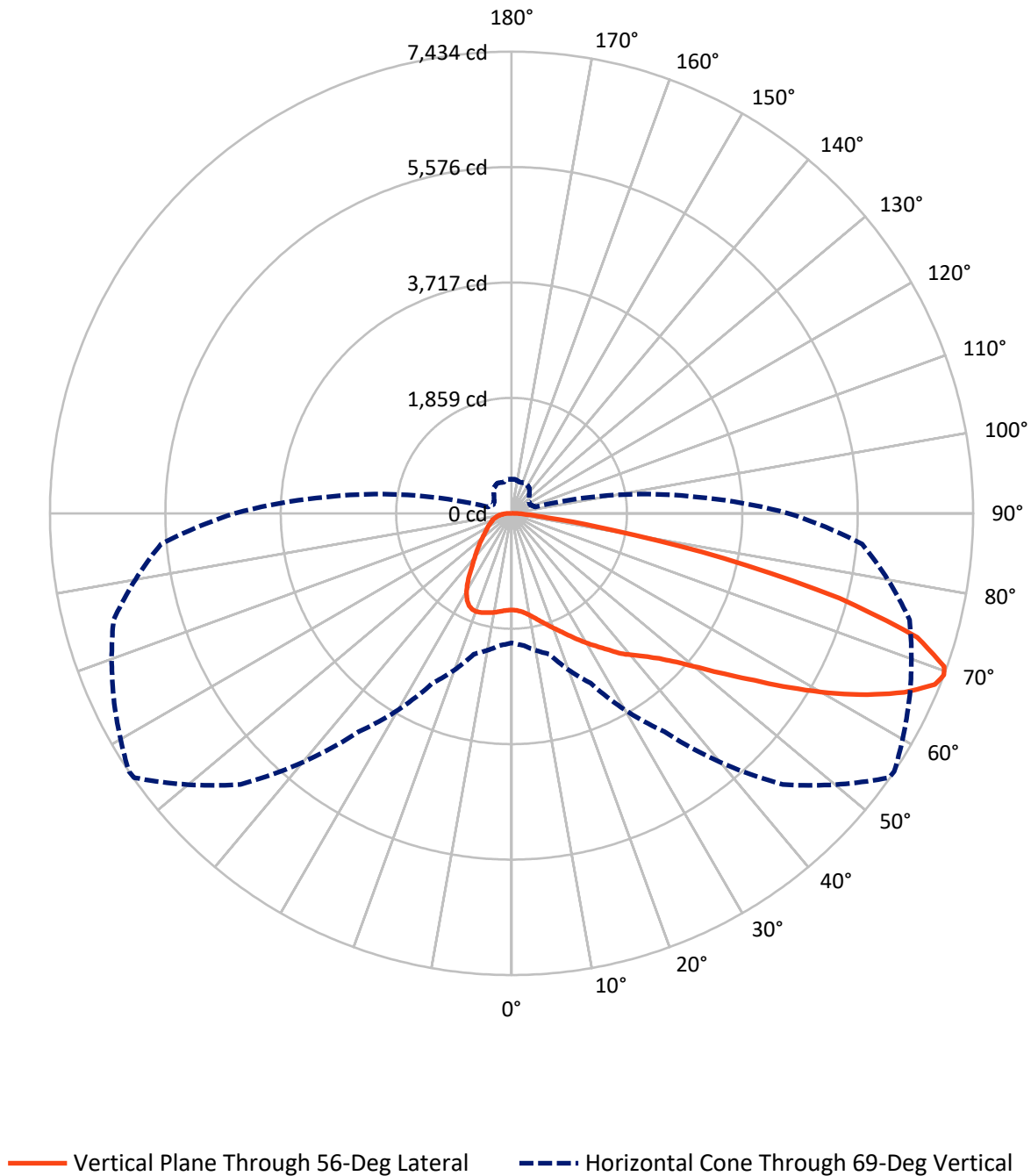
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	2650.3	0.0	2650.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9250.7	0.0	9250.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	11901.0	0.0	11901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	1.3
10°-20°	491.4	4.1
20°-30°	857.8	7.2
30°-40°	1232.1	10.4
40°-50°	1705.2	14.3
50°-60°	2498.4	21.0
60°-70°	3046.0	25.6
70°-80°	1684.0	14.2
80°-90°	233.2	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°	11901.0	100.0
0°-180°	11901.0	100.0

Coefficient of Utilization



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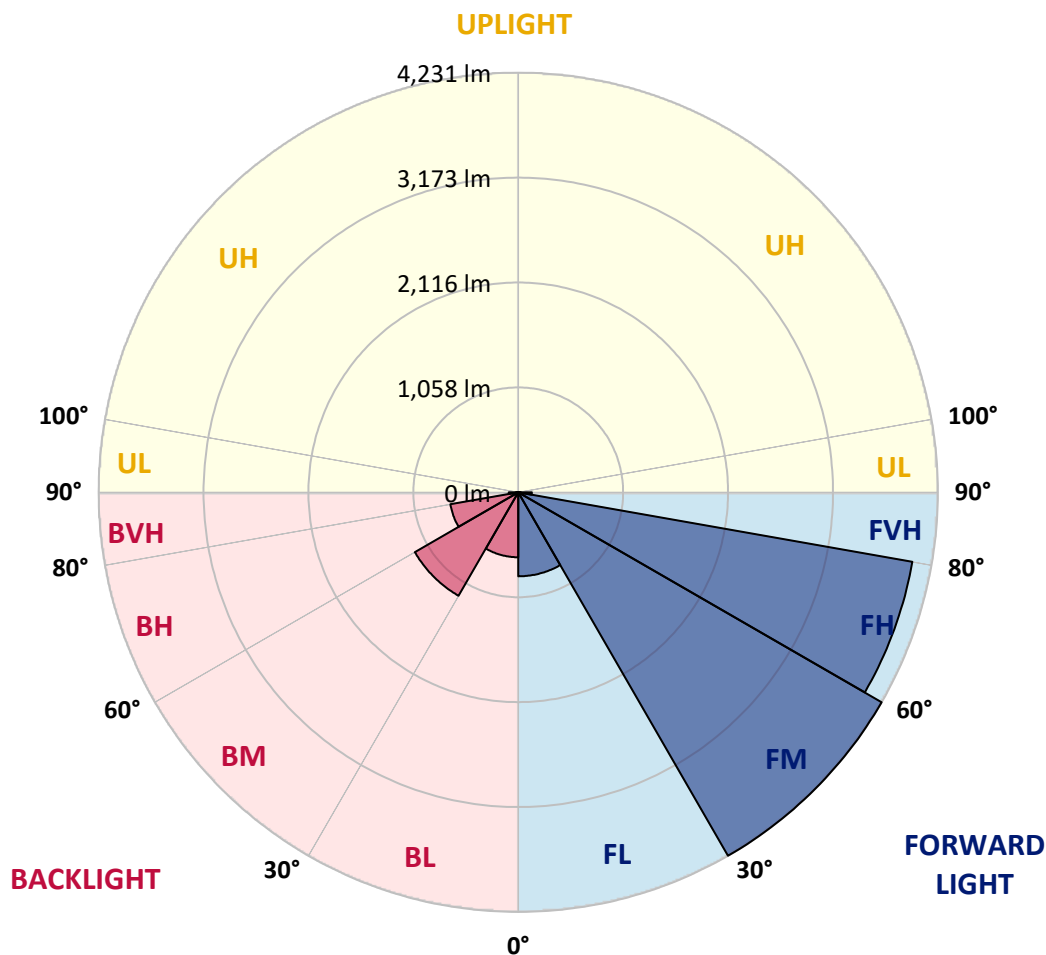
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	847.0	7.1			
FM	(30°-60°)	4231.2	35.6			
FH	(60°-80°)	4035.0	33.9			G2/5000
FVH	(80°-90°)	137.4	1.2			G2/225
BL	(0°-30°)	655.0	5.5	B2/1000		
BM	(30°-60°)	1204.5	10.1	B2/2500		
BH	(60°-80°)	695.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	95.9	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°	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9
2.5°	1565.7	1567.4	1566.1	1569.4	1565.7	1568.2	1566.1	1566.1	1564.9	1561.2	1557.1
5°	1590.3	1593.6	1591.5	1594.8	1590.3	1591.1	1587.4	1587.4	1583.8	1576.0	1567.8
7.5°	1628.9	1632.5	1630.9	1634.2	1628.0	1628.0	1623.1	1622.7	1615.3	1602.6	1593.2
10°	1674.8	1679.7	1678.1	1683.0	1678.1	1679.7	1674.8	1674.8	1664.9	1646.9	1635.0
12.5°	1741.6	1747.7	1743.2	1742.8	1740.8	1744.1	1740.0	1739.1	1730.1	1705.5	1689.1
15°	1831.0	1837.5	1828.1	1827.3	1815.8	1814.6	1814.6	1813.3	1807.6	1778.1	1751.0
17.5°	1933.9	1935.9	1927.7	1914.6	1899.9	1890.4	1889.2	1892.5	1892.5	1858.0	1815.0
20°	2034.7	2038.4	2031.9	2017.1	1998.2	1984.3	1974.5	1981.0	1980.6	1939.6	1878.5
22.5°	2144.6	2153.2	2143.4	2124.5	2102.4	2086.8	2069.6	2075.3	2075.7	2025.3	1940.8
25°	2286.9	2279.1	2272.9	2246.3	2214.7	2198.7	2182.7	2188.5	2186.8	2117.6	2005.2
27.5°	2412.7	2414.4	2406.2	2377.9	2341.4	2306.1	2305.3	2309.0	2302.9	2213.5	2065.9
30°	2559.1	2559.9	2548.4	2523.0	2483.3	2437.7	2427.1	2433.2	2420.1	2304.5	2129.8
32.5°	2704.6	2708.7	2696.0	2665.3	2633.3	2578.0	2556.6	2560.7	2527.9	2397.6	2195.9
35°	2832.1	2837.9	2833.8	2813.3	2778.4	2730.9	2705.5	2703.0	2662.4	2511.5	2283.2
37.5°	2962.1	2967.4	2962.9	2945.7	2931.8	2881.3	2867.8	2867.8	2797.3	2628.0	2394.3
40°	3095.8	3104.0	3098.6	3074.9	3063.0	3040.0	3007.6	2999.8	2923.6	2767.8	2575.5
42.5°	3220.0	3230.6	3252.0	3238.0	3213.8	3217.1	3151.9	3147.8	3092.1	2974.4	2803.0
45°	3396.3	3411.9	3447.9	3437.3	3432.4	3414.3	3336.8	3333.1	3311.8	3252.4	3085.5
47.5°	3588.6	3609.9	3675.1	3677.1	3730.0	3696.0	3590.6	3577.9	3582.8	3585.3	3430.3
50°	3765.7	3789.0	3896.0	3946.5	4071.1	4078.5	3910.0	3898.5	3917.8	3974.4	3832.1
52.5°	3907.1	3936.6	4070.3	4226.1	4439.7	4500.4	4303.2	4294.5	4308.9	4406.5	4286.3
55°	4010.8	4042.8	4188.4	4472.1	4813.2	4920.2	4755.8	4747.6	4756.6	4880.8	4780.4
57.5°	4035.0	4042.8	4254.0	4637.7	5128.4	5385.5	5309.7	5293.3	5249.0	5357.2	5325.6
60°	3921.5	3952.6	4199.8	4695.9	5372.4	5844.3	5888.6	5868.1	5743.8	5832.4	5807.0
62.5°	3691.1	3746.8	3997.7	4607.4	5467.9	6219.0	6456.4	6431.8	6217.8	6275.2	6153.0
65°	3314.7	3338.5	3602.1	4301.9	5346.6	6458.8	6962.7	6950.4	6681.0	6591.3	6216.9
67.5°	2641.5	2686.2	2910.0	3663.6	4850.1	6430.5	7354.2	7353.0	6983.6	6708.5	5990.2
69°	2086.8	2133.1	2346.3	3017.9	4291.7	6171.8	7419.8	7434.2	7068.9	6637.2	5666.3
70°	1663.7	1717.4	1863.8	2541.9	3796.0	5830.7	7365.3	7391.1	7052.5	6519.5	5367.5
72.5°	708.0	751.5	855.6	1310.3	2313.5	4354.0	6734.3	6831.9	6672.4	5966.9	4436.0
75°	309.1	322.7	369.8	534.2	1027.0	2369.7	5275.6	5456.0	5705.3	5043.6	3304.4
77.5°	226.3	232.0	257.9	313.6	460.8	895.0	3392.6	3497.5	4114.6	3670.1	2026.9
80°	175.1	179.2	199.3	230.4	300.9	362.0	1547.3	1637.5	2313.5	1885.1	844.2
82.5°	139.4	142.3	156.2	169.7	207.9	219.3	513.7	569.9	854.0	520.7	223.4
85°	129.6	132.8	137.8	123.8	133.2	128.7	222.2	232.5	257.9	204.6	93.5
87.5°	58.6	69.3	136.5	96.3	70.9	56.6	91.0	95.1	107.0	107.4	41.4
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°	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9	1555.9
2.5°	1559.6	1558.3	1560.4	1555.5	1561.6	1561.2	1559.2	1560.0	1564.1	1563.7	1564.1
5°	1569.0	1568.2	1570.6	1566.9	1574.3	1576.8	1577.2	1580.9	1585.4	1586.6	1586.6
7.5°	1592.8	1592.8	1594.0	1589.1	1594.0	1593.6	1591.5	1595.2	1599.7	1600.2	1599.7
10°	1633.8	1634.2	1632.1	1619.4	1615.3	1604.3	1594.0	1594.4	1600.2	1604.7	1605.9
12.5°	1685.4	1683.8	1674.8	1651.4	1634.2	1611.6	1601.0	1600.6	1606.3	1610.0	1611.2
15°	1744.5	1740.0	1716.6	1678.5	1648.1	1626.0	1608.8	1604.7	1601.4	1597.3	1597.7
17.5°	1800.2	1790.0	1751.0	1698.1	1666.2	1636.6	1603.4	1576.8	1558.3	1547.7	1544.4
20°	1856.8	1836.7	1780.5	1716.6	1676.0	1622.3	1558.3	1504.2	1470.6	1455.0	1452.2
22.5°	1908.5	1876.1	1808.0	1735.9	1668.2	1573.9	1473.5	1394.8	1348.0	1327.1	1328.7
25°	1958.9	1913.8	1836.7	1749.4	1628.9	1488.6	1355.4	1258.6	1204.5	1181.2	1180.3
27.5°	2003.2	1951.9	1867.9	1738.3	1555.5	1367.3	1215.6	1121.3	1076.2	1056.1	1052.8
30°	2054.0	1999.9	1909.3	1696.1	1448.1	1227.1	1079.1	1012.7	980.7	960.6	956.9
32.5°	2115.9	2065.1	1943.3	1619.4	1310.7	1080.7	972.5	926.1	897.0	874.5	870.4
35°	2206.1	2151.2	1951.9	1509.5	1159.8	965.1	894.2	846.6	807.3	778.1	775.3
37.5°	2319.3	2259.0	1932.2	1367.3	1013.5	890.1	829.0	770.4	719.1	678.1	671.5
40°	2482.4	2391.4	1877.7	1203.3	905.6	832.3	765.4	698.6	635.1	587.1	577.7
42.5°	2678.4	2546.8	1794.1	1040.1	826.5	773.6	702.3	619.5	558.8	524.8	519.9
45°	2927.7	2708.3	1678.1	897.4	748.6	715.0	634.2	558.0	520.3	495.3	491.2
47.5°	3212.2	2889.5	1556.3	781.4	682.6	660.1	579.7	530.5	500.6	480.9	477.2
50°	3561.9	3094.1	1427.1	686.3	616.2	594.1	553.9	515.3	491.6	476.4	472.7
52.5°	3956.3	3324.9	1334.1	611.3	561.3	545.3	540.4	507.1	487.9	476.4	472.7
55°	4381.1	3559.9	1233.6	548.1	513.7	518.2	531.3	508.0	494.8	480.9	475.6
57.5°	4806.2	3802.6	1121.7	494.8	476.0	498.1	525.2	509.6	498.5	485.0	480.1
60°	5142.4	3956.3	948.3	450.2	446.1	476.0	510.4	497.3	483.0	483.4	482.5
62.5°	5299.4	3948.1	756.8	410.4	416.1	446.1	486.6	478.0	466.1	482.1	483.4
65°	5211.3	3751.3	589.1	374.3	384.2	414.9	462.0	468.6	472.7	503.5	507.6
67.5°	4841.5	3368.4	456.3	342.7	355.0	393.6	464.5	510.4	515.8	548.1	547.7
69°	4458.9	3009.3	396.5	326.3	340.7	398.9	496.5	537.1	517.0	551.4	546.5
70°	4138.3	2725.1	364.5	315.3	334.1	408.3	517.8	536.7	510.8	540.4	532.2
72.5°	3187.2	1960.5	309.1	294.8	312.0	390.7	524.0	524.8	496.5	502.2	488.3
75°	2186.0	1239.0	269.8	266.9	278.4	352.2	504.3	501.4	459.2	451.0	439.5
77.5°	1205.3	629.3	229.2	240.2	248.0	312.0	458.4	454.3	419.4	402.2	398.1
80°	464.9	275.5	193.5	213.6	218.5	270.2	401.8	398.1	369.0	346.8	340.7
82.5°	175.5	144.3	159.9	184.9	183.3	223.0	340.3	338.2	309.9	277.6	267.7
85°	81.2	86.5	126.7	152.5	140.6	165.2	272.2	275.9	241.5	202.9	202.9
87.5°	34.4	48.4	89.8	115.2	94.7	111.5	199.7	190.6	175.1	121.4	114.0
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)