

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: P322669

Luminaire Tested: **GAN-SA5A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12159 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

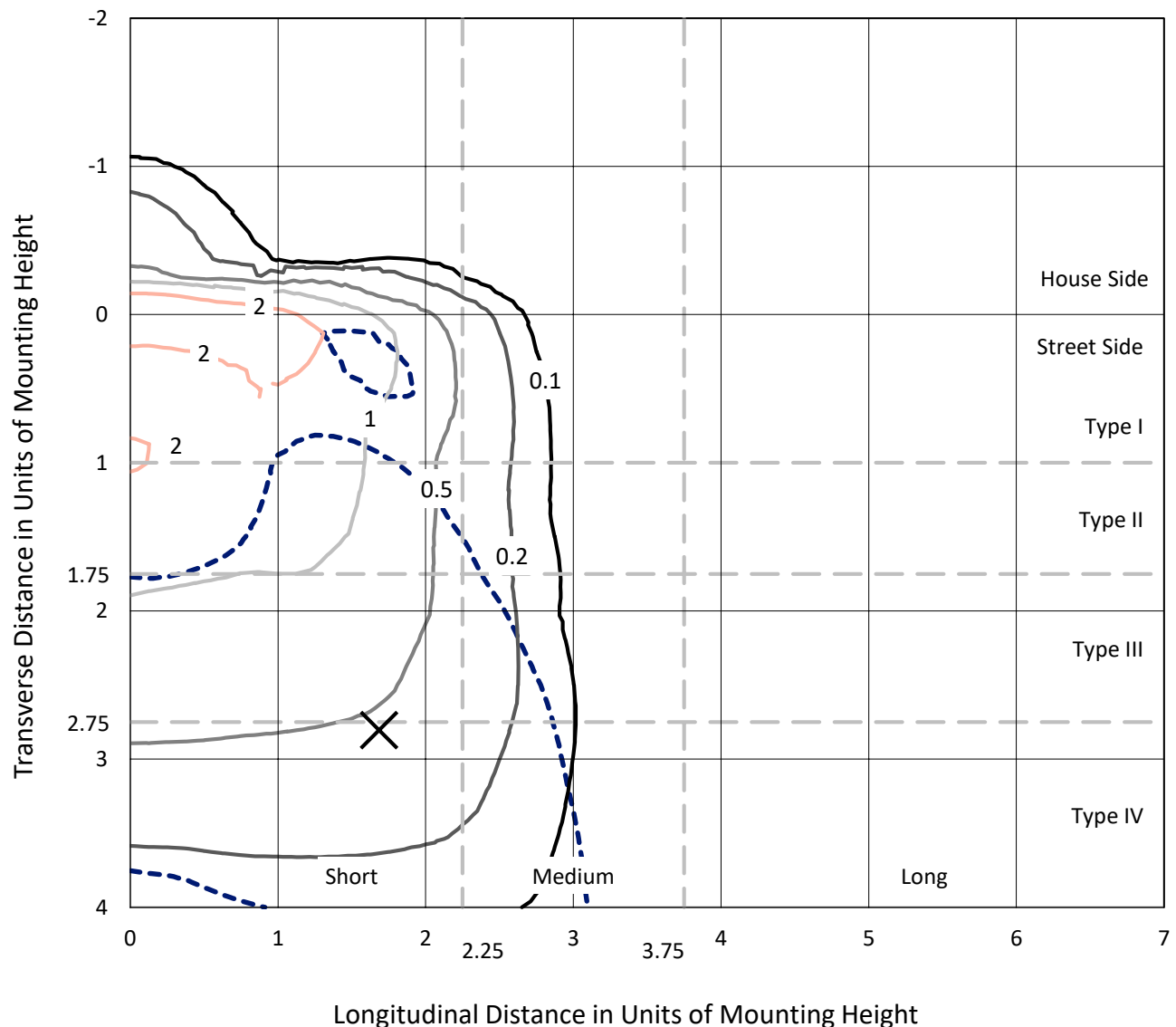
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

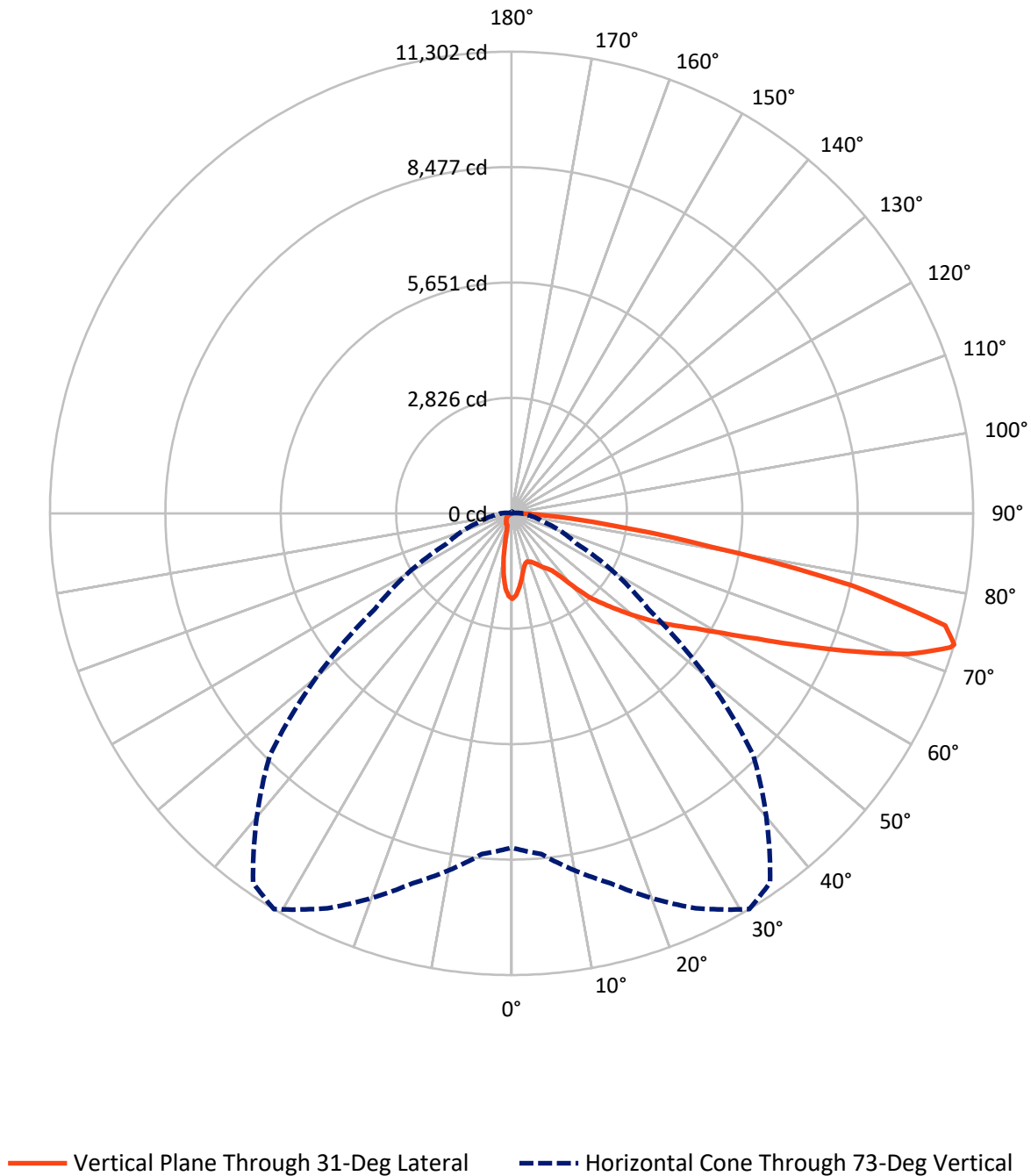
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1108.3	0.0	1108.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11050.7	0.0	11050.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	12159.0	0.0	12159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.4
10°-20°	376.6	3.1
20°-30°	564.3	4.6
30°-40°	897.8	7.4
40°-50°	1603.2	13.2
50°-60°	2487.7	20.5
60°-70°	3307.0	27.2
70°-80°	2487.6	20.5
80°-90°	261.4	2.1
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°	12159.0	100.0
0°-180°	12159.0	100.0

Coefficient of Utilization



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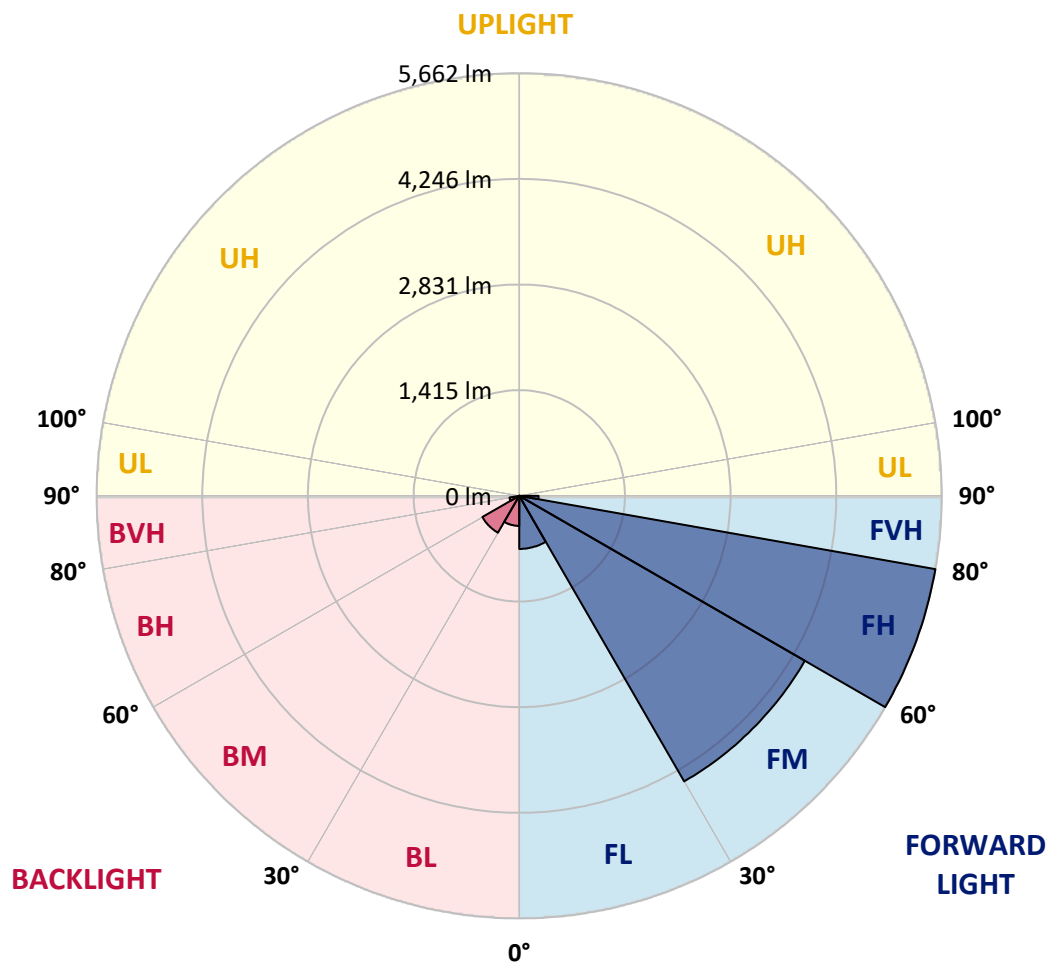
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	711.3	5.9			
FM	(30°-60°)	4418.2	36.3			
FH	(60°-80°)	5662.0	46.6			G3/7500
FVH	(80°-90°)	259.2	2.1			G3/500
BL	(0°-30°)	403.0	3.3	B1/500		
BM	(30°-60°)	570.5	4.7	B1/1000		
BH	(60°-80°)	132.6	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0
2.5°	1982.5	1990.8	1999.8	2001.5	2016.4	2017.0	2038.4	2054.5	2070.6	2086.0	2091.4
5°	1779.0	1792.7	1808.8	1824.8	1856.4	1868.9	1921.2	1974.8	2025.9	2074.7	2098.5
7.5°	1561.8	1577.3	1599.9	1639.8	1674.9	1699.3	1782.0	1877.2	1972.4	2062.2	2114.0
10°	1363.7	1378.0	1401.8	1444.0	1498.2	1531.5	1642.8	1774.9	1914.7	2050.9	2137.2
12.5°	1237.6	1245.3	1258.4	1303.6	1352.4	1389.9	1520.8	1684.4	1867.1	2050.3	2174.7
15°	1214.4	1216.8	1206.0	1226.3	1264.4	1300.6	1433.3	1611.2	1830.8	2059.9	2223.5
17.5°	1251.3	1250.1	1214.4	1212.0	1242.3	1272.1	1390.5	1560.7	1805.2	2081.9	2286.5
20°	1307.2	1303.0	1241.1	1229.8	1262.0	1289.9	1387.5	1541.6	1795.7	2118.8	2363.3
22.5°	1381.6	1374.4	1277.4	1265.5	1300.1	1329.2	1424.4	1560.1	1804.0	2168.1	2452.5
25°	1473.8	1463.1	1339.9	1326.8	1361.9	1391.1	1490.4	1613.0	1829.0	2228.2	2565.6
27.5°	1577.9	1562.4	1439.9	1406.0	1445.8	1476.2	1578.5	1693.9	1868.3	2291.9	2704.2
30°	1676.1	1655.9	1545.2	1489.3	1538.0	1572.0	1673.7	1790.3	1931.3	2390.1	2894.0
32.5°	1774.9	1752.2	1639.2	1572.6	1616.6	1653.5	1771.9	1923.0	2049.7	2540.0	3146.3
35°	2002.1	1978.3	1839.7	1729.6	1729.0	1749.9	1909.3	2104.5	2206.2	2748.8	3447.4
37.5°	2384.7	2371.0	2238.9	2030.1	1974.2	1951.0	2096.7	2321.1	2431.1	3036.2	3787.1
40°	2803.6	2791.7	2643.5	2454.3	2369.2	2312.1	2365.7	2622.7	2748.8	3387.3	4134.0
42.5°	3276.6	3220.1	2955.9	2899.4	2823.2	2779.8	2731.6	2994.6	3139.2	3769.3	4477.9
45°	3706.2	3611.0	3268.3	3182.6	3165.3	3176.1	3202.8	3494.4	3578.3	4223.2	4820.6
47.5°	3962.0	3887.1	3624.1	3542.0	3537.2	3608.0	3810.3	4059.0	4015.6	4618.9	5122.3
50°	4205.4	4137.6	3919.2	3939.4	3961.4	4057.8	4499.9	4639.7	4414.8	4977.7	5398.9
52.5°	4402.3	4298.8	4184.6	4298.2	4406.5	4561.8	5211.5	5160.9	4698.0	5263.3	5635.7
55°	4516.0	4469.0	4524.3	4638.5	4842.0	5094.3	5883.2	5594.7	4905.1	5523.9	5793.4
57.5°	4932.5	4840.2	4950.3	5049.1	5314.4	5667.3	6458.6	5917.8	5054.4	5685.1	5829.7
60°	5436.4	5362.0	5426.9	5591.1	5949.3	6364.0	6996.5	6181.3	5132.4	5788.6	5735.7
62.5°	6238.5	6140.3	6099.8	6283.7	6758.5	7211.3	7404.6	6364.0	5115.1	5742.8	5413.2
65°	7313.0	7211.3	7030.4	7197.0	7800.9	8120.4	7861.0	6402.7	4996.1	5372.2	4598.1
67.5°	8413.7	8340.0	8185.3	8466.1	9011.1	9114.0	8343.5	6308.7	4612.9	4355.9	3248.6
70°	9140.8	9109.3	9209.8	9831.0	10317.1	10287.4	8786.2	5803.5	3595.5	2678.6	1607.1
72.5°	8616.6	8767.8	9510.3	10636.6	11230.4	10987.7	8558.9	4456.5	2055.1	1030.5	464.7
73°	8182.3	8375.7	9375.2	10667.0	11302.4	11036.4	8367.9	4090.5	1751.6	813.3	352.2
75°	5692.3	5929.7	7761.6	9934.5	10965.6	10515.2	6975.1	2503.7	811.6	360.6	142.2
77.5°	2763.7	2939.2	4273.8	7177.9	8528.0	8215.6	4342.2	932.9	366.5	225.5	65.4
80°	1031.7	1147.1	1855.2	3653.2	4928.3	5057.4	1909.9	352.8	243.9	181.5	33.3
82.5°	270.1	301.1	684.2	1629.1	2525.7	2643.5	602.1	177.9	178.5	149.3	20.2
85°	86.3	98.8	213.6	731.2	1190.0	1044.8	157.1	86.3	129.7	111.3	11.3
87.5°	10.7	13.7	67.8	172.0	262.4	145.8	24.4	25.6	55.3	61.9	6.5
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°	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0	2092.0
2.5°	2096.7	2093.8	2094.4	2078.9	2068.8	2048.5	2027.7	2018.2	2008.1	2003.9	2008.1
5°	2107.5	2102.1	2086.6	2039.0	1988.5	1923.0	1861.7	1815.3	1757.0	1740.9	1757.6
7.5°	2124.1	2113.4	2068.2	1971.2	1858.7	1733.8	1593.4	1491.0	1407.1	1353.0	1372.6
10°	2148.5	2128.3	2037.2	1872.4	1671.3	1450.0	1250.7	1095.4	985.3	940.1	938.3
12.5°	2189.6	2151.5	1999.2	1743.9	1442.3	1147.1	885.9	717.6	628.3	570.6	569.4
15°	2234.8	2178.8	1951.0	1589.8	1175.7	821.7	570.6	442.7	385.0	366.5	364.1
17.5°	2290.1	2210.4	1888.5	1400.0	896.6	544.4	372.5	335.6	333.2	331.4	331.4
20°	2359.7	2247.9	1808.2	1182.8	636.0	363.5	316.5	318.9	320.1	317.7	318.3
22.5°	2440.6	2285.9	1712.4	949.6	430.2	304.0	302.8	305.8	307.0	305.8	306.4
25°	2534.7	2330.0	1595.8	705.1	310.6	288.6	291.5	295.7	298.7	298.7	298.7
27.5°	2651.3	2383.5	1455.3	492.1	268.3	272.5	280.8	288.6	292.7	293.9	293.9
30°	2803.0	2450.2	1287.0	337.4	243.9	251.1	266.6	281.4	289.2	290.4	290.9
32.5°	2994.6	2525.1	1091.8	249.3	223.1	228.5	245.1	270.1	285.0	287.4	287.4
35°	3214.1	2612.0	881.8	217.2	208.2	210.0	223.1	251.7	277.9	284.4	285.0
37.5°	3454.5	2697.7	670.6	202.9	195.8	195.8	205.3	229.7	260.6	280.8	283.2
40°	3678.8	2749.4	470.0	191.6	184.4	184.4	192.8	210.6	239.8	270.1	276.7
42.5°	3885.9	2767.3	327.2	180.9	173.7	175.5	182.7	196.9	219.0	249.3	255.3
45°	4098.9	2764.3	238.6	168.4	163.0	168.4	173.7	184.4	200.5	217.8	219.0
47.5°	4259.5	2739.3	189.2	156.5	152.9	160.1	164.8	172.0	180.9	179.7	179.7
50°	4410.1	2678.6	152.3	140.4	142.8	151.1	153.5	155.9	156.5	145.2	144.0
52.5°	4524.3	2584.0	122.0	123.2	132.7	141.0	138.6	135.1	129.1	115.4	113.0
55°	4562.4	2402.0	95.8	101.7	117.8	128.5	119.6	111.9	100.6	89.2	86.9
57.5°	4493.4	2166.9	77.9	79.1	99.4	108.3	98.2	89.2	76.8	67.2	65.4
60°	4347.0	1905.7	64.3	59.5	76.8	84.5	77.9	69.0	57.7	50.6	50.0
62.5°	4056.6	1627.3	53.0	46.4	58.3	64.9	60.7	54.1	44.6	39.9	39.3
65°	3446.2	1301.8	42.8	37.5	45.2	50.6	47.0	42.2	35.1	31.5	30.9
67.5°	2405.5	880.0	35.1	30.9	35.7	39.9	36.9	34.5	28.0	27.4	28.0
70°	1160.2	424.2	29.2	25.0	28.0	30.9	29.7	28.0	26.8	30.9	35.7
72.5°	332.6	142.2	23.2	20.8	22.6	24.4	25.6	25.0	29.2	37.5	43.4
73°	255.8	114.8	22.0	19.6	21.4	23.8	25.0	24.4	29.7	38.1	43.4
75°	109.5	55.3	16.7	16.1	17.8	20.8	22.0	22.0	29.7	38.7	41.6
77.5°	49.4	29.7	10.7	12.5	15.5	16.7	18.4	18.4	23.8	29.7	29.7
80°	28.0	16.1	8.3	9.5	11.3	11.3	11.3	10.1	10.7	11.9	13.1
82.5°	17.8	10.7	6.5	7.7	7.1	5.9	4.8	4.8	4.2	4.8	5.9
85°	10.1	5.9	5.9	4.8	3.0	2.4	3.0	2.4	0.6	0.0	0.6
87.5°	5.9	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)