

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: P318246

Luminaire Tested: **GAN-SA2C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11285 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

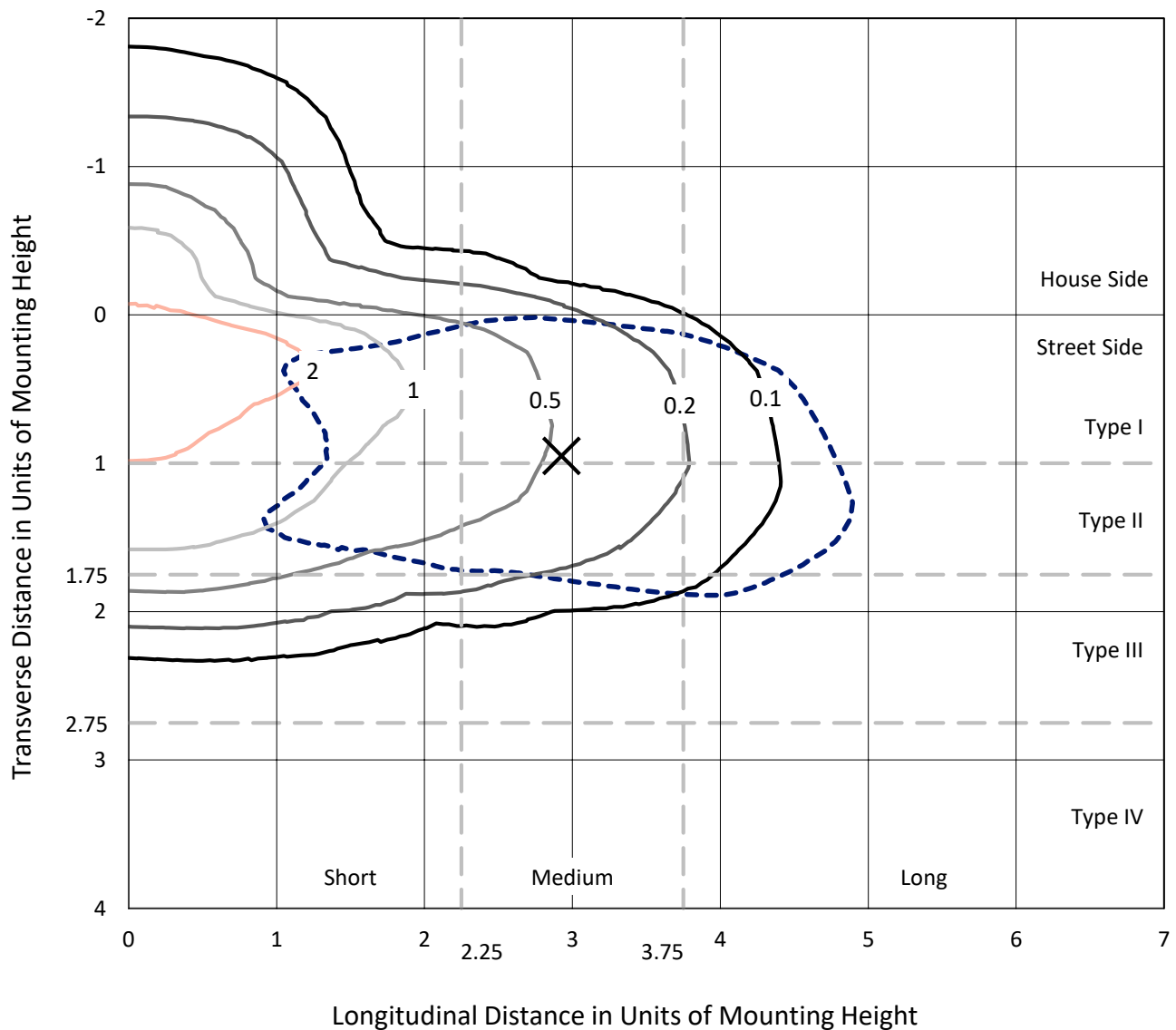
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

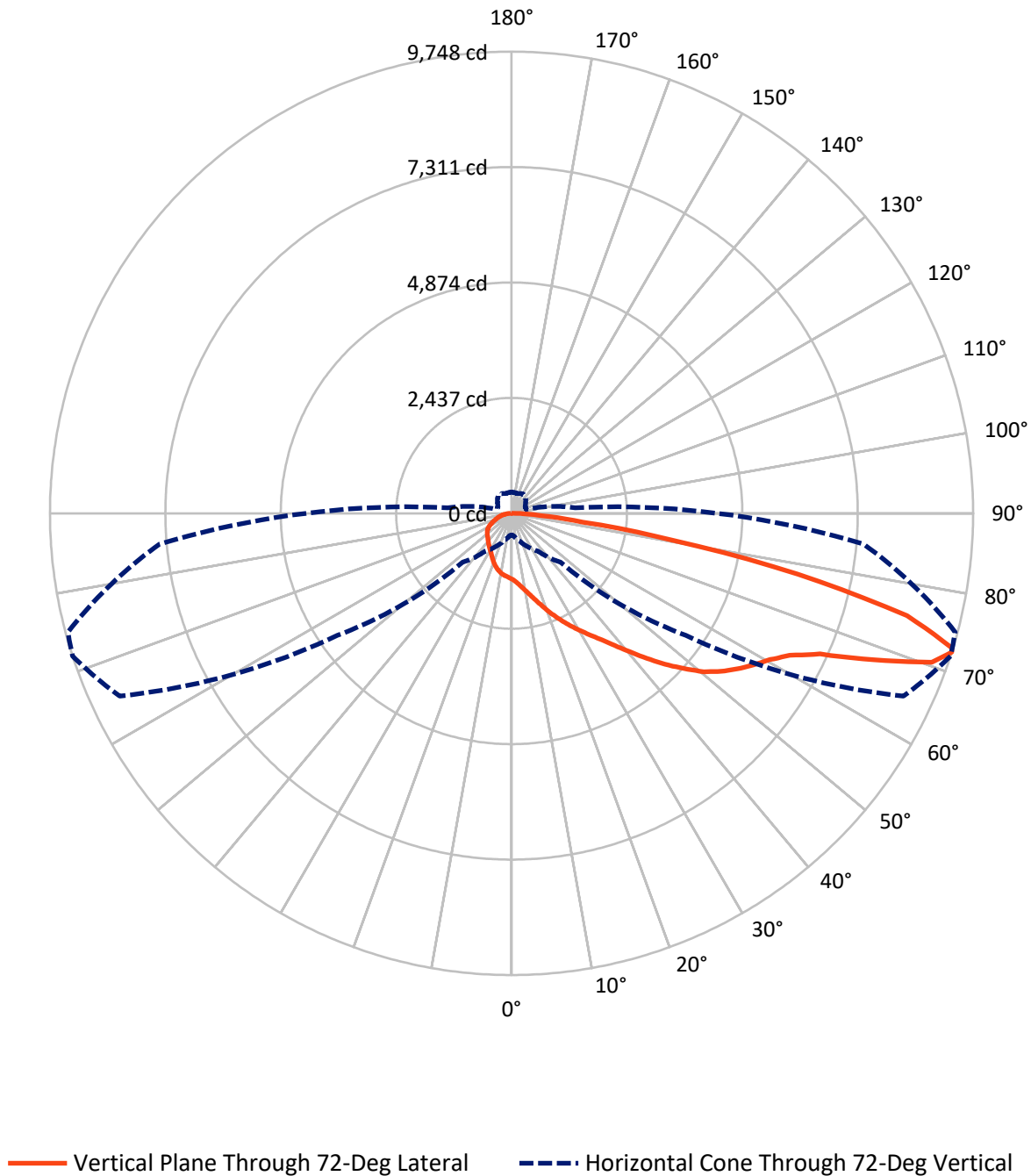
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2093.4	0.0	2093.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9191.6	0.0	9191.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	11285.0	0.0	11285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.2
10°-20°	449.6	4.0
20°-30°	787.8	7.0
30°-40°	1168.0	10.4
40°-50°	1708.3	15.1
50°-60°	2350.6	20.8
60°-70°	2616.9	23.2
70°-80°	1773.2	15.7
80°-90°	291.4	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°	11285.0	100.0
0°-180°	11285.0	100.0

Coefficient of Utilization



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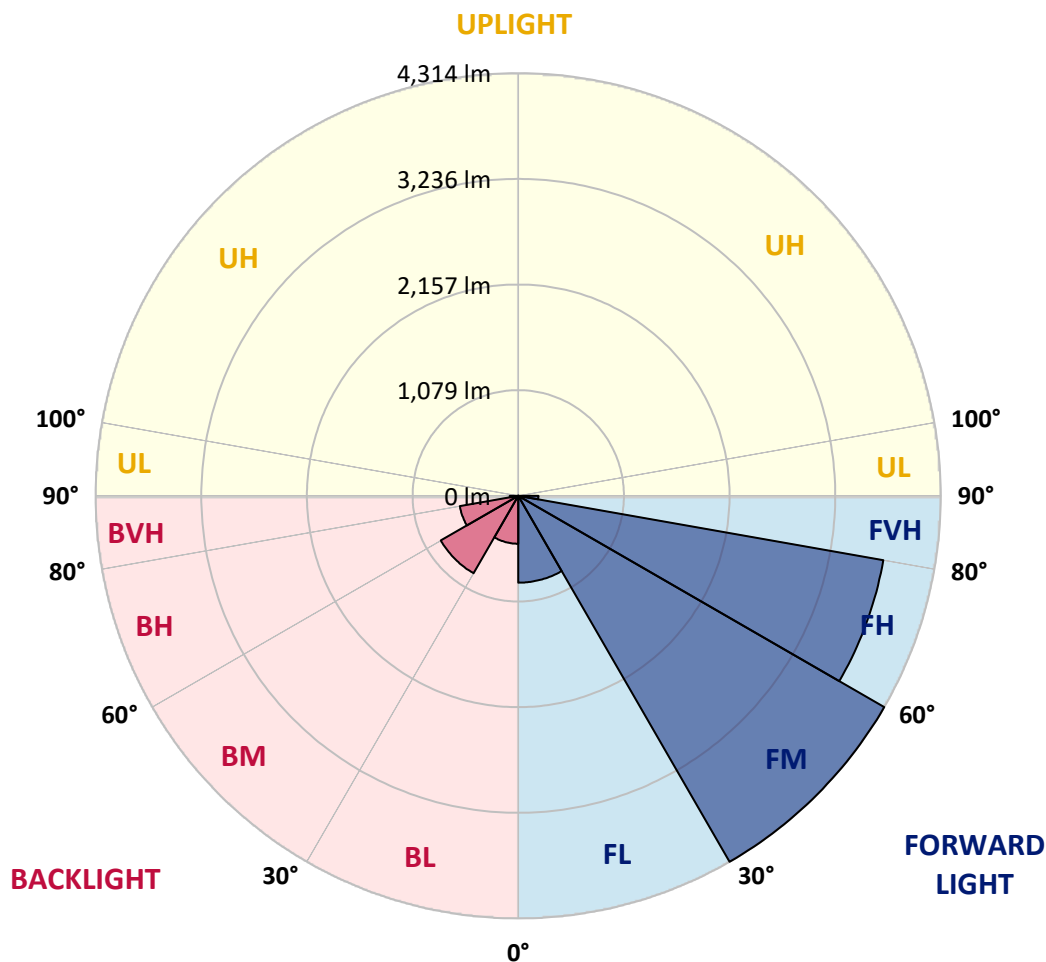
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	887.1	7.9			
FM	(30°-60°)	4314.4	38.2			
FH	(60°-80°)	3784.5	33.5			G2/5000
FVH	(80°-90°)	205.6	1.8			G2/225
BL	(0°-30°)	489.4	4.3	B1/500		
BM	(30°-60°)	912.5	8.1	B1/1000		
BH	(60°-80°)	605.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	85.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1533.7	1531.3	1523.2	1523.2	1507.6	1494.4	1469.6	1452.9	1433.0	1426.0	1402.7
5°	1682.1	1682.9	1672.8	1665.8	1642.9	1614.9	1572.5	1534.1	1495.6	1480.1	1432.3
7.5°	1806.8	1805.3	1802.6	1796.7	1775.4	1746.6	1689.5	1632.4	1575.6	1552.3	1469.9
10°	1886.9	1890.4	1892.7	1895.4	1886.5	1865.9	1811.9	1742.3	1668.1	1636.3	1515.0
12.5°	1927.3	1933.5	1944.4	1963.0	1977.8	1975.5	1936.2	1862.4	1774.2	1734.2	1571.4
15°	1951.0	1959.2	1976.3	2009.7	2051.2	2074.9	2064.5	1997.6	1899.3	1850.0	1640.1
17.5°	1965.8	1972.4	1998.8	2043.5	2105.3	2168.2	2195.8	2139.8	2040.8	1984.4	1719.0
20°	1975.9	1980.9	2013.9	2066.4	2146.4	2246.7	2323.6	2309.6	2196.6	2123.5	1801.4
22.5°	1998.4	2002.7	2034.1	2087.0	2175.6	2305.0	2446.8	2467.8	2360.9	2278.2	1889.6
25°	2061.3	2061.3	2087.8	2124.7	2207.8	2355.5	2550.9	2643.8	2528.8	2432.4	1971.2
27.5°	2181.4	2180.2	2190.0	2202.8	2265.7	2406.8	2643.8	2799.2	2702.9	2597.6	2050.5
30°	2323.6	2331.4	2332.6	2326.3	2355.9	2470.9	2729.7	2963.2	2878.1	2764.7	2131.7
32.5°	2506.6	2511.7	2505.9	2485.3	2481.0	2561.8	2814.0	3135.0	3067.7	2939.1	2205.9
35°	2739.0	2729.3	2711.0	2669.1	2629.0	2683.4	2910.4	3306.7	3280.7	3150.1	2308.1
37.5°	2988.1	2988.5	2965.9	2870.7	2815.6	2838.9	3043.3	3501.4	3538.3	3401.1	2439.0
40°	3187.8	3198.3	3212.3	3087.2	3015.7	3047.9	3212.3	3727.1	3842.9	3698.8	2609.6
42.5°	3327.3	3339.3	3379.0	3300.5	3226.3	3286.1	3411.2	3968.0	4184.9	4042.3	2809.3
45°	3475.0	3481.6	3509.5	3475.7	3428.3	3563.2	3635.4	4217.5	4546.6	4408.3	3032.8
47.5°	3630.4	3637.4	3666.1	3643.6	3618.7	3821.9	3869.3	4452.6	4893.2	4810.5	3271.3
50°	3822.3	3827.0	3854.2	3813.4	3821.2	4017.0	4078.4	4668.2	5256.5	5171.8	3510.7
52.5°	4084.2	4085.4	4123.1	4086.2	4049.6	4160.0	4258.3	4871.5	5541.4	5501.3	3750.1
55°	4289.4	4301.8	4425.4	4417.6	4396.6	4289.8	4408.7	5065.0	5795.5	5814.5	4004.2
57.5°	4158.4	4207.0	4457.3	4633.7	4805.4	4612.7	4611.9	5283.0	6031.7	6121.9	4283.6
60°	3642.0	3708.1	4076.8	4468.1	5005.5	5174.5	5033.9	5549.1	6270.3	6426.5	4633.7
62.5°	2601.1	2709.9	3209.6	3834.4	4731.2	5546.8	5892.6	5971.5	6594.8	6779.3	5088.7
65°	1314.9	1397.3	1816.2	2568.8	3780.0	5303.5	6826.0	6896.3	7158.6	7322.5	5789.3
67.5°	798.9	830.0	1034.4	1428.8	2317.4	4131.2	7130.6	8437.7	8249.7	8336.7	6788.3
70°	588.7	611.6	739.1	948.9	1332.8	2424.3	6195.7	9537.8	9414.2	9404.5	7526.5
72°	458.5	475.2	587.9	766.6	974.5	1454.4	4490.7	9131.7	9747.6	9698.6	7458.9
72.5°	434.8	449.6	552.2	721.6	920.9	1318.4	4037.6	8857.8	9723.5	9701.3	7371.5
75°	342.3	352.8	408.8	558.0	720.8	748.0	2212.5	6864.4	8625.8	8984.4	6630.1
77.5°	283.3	284.8	314.4	406.1	561.9	528.8	1086.8	4762.7	6176.7	6571.1	4696.6
80°	230.8	232.8	246.7	284.8	425.1	391.3	516.0	2738.6	3458.2	3462.5	2233.5
82.5°	183.8	184.2	199.7	208.3	305.4	279.8	295.7	1285.8	1511.1	1453.6	802.8
85°	129.4	126.7	195.1	171.0	199.7	179.5	163.2	509.0	624.8	597.6	251.4
87.5°	43.1	44.7	86.7	110.7	116.6	101.8	72.7	195.1	235.9	233.9	79.7
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°	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1395.3	1382.9	1364.6	1344.4	1328.5	1312.2	1300.1	1293.9	1286.9	1281.1	1288.1
5°	1410.1	1386.8	1347.9	1309.9	1281.9	1257.0	1239.1	1229.8	1221.3	1215.4	1216.2
7.5°	1434.2	1396.5	1331.2	1275.7	1236.8	1210.0	1191.7	1185.5	1180.1	1178.5	1180.5
10°	1459.8	1404.3	1309.1	1235.3	1191.0	1168.8	1160.6	1164.9	1168.8	1172.3	1176.2
12.5°	1489.0	1411.3	1276.8	1187.8	1150.2	1141.6	1149.8	1168.4	1182.0	1190.2	1195.2
15°	1527.1	1417.5	1239.5	1140.4	1115.2	1124.9	1152.5	1184.7	1208.4	1223.6	1225.9
17.5°	1562.0	1417.1	1191.7	1092.7	1086.8	1115.2	1156.8	1202.2	1234.1	1255.5	1259.7
20°	1598.2	1406.6	1136.2	1046.0	1058.1	1104.7	1158.7	1213.5	1252.0	1276.8	1282.7
22.5°	1632.0	1388.3	1075.2	1003.7	1034.0	1090.7	1151.3	1206.9	1245.4	1265.6	1271.8
25°	1654.9	1356.5	1013.4	967.9	1012.6	1073.6	1127.2	1171.9	1200.7	1210.8	1212.3
27.5°	1666.6	1314.9	955.1	936.8	990.5	1045.6	1082.5	1104.7	1112.9	1112.1	1110.5
30°	1668.1	1260.1	905.0	911.6	964.8	1004.4	1021.9	1017.7	1007.2	989.3	990.8
32.5°	1663.1	1198.3	863.0	887.5	932.2	954.3	955.1	934.5	906.5	878.2	870.4
35°	1664.6	1137.7	826.1	860.3	892.5	902.3	893.3	863.0	824.9	788.4	780.6
37.5°	1681.7	1084.9	794.2	828.8	848.6	851.0	838.1	806.3	778.3	742.6	739.4
40°	1722.5	1047.2	763.9	793.5	804.7	805.9	787.6	765.1	767.4	748.4	748.0
42.5°	1796.0	1030.9	737.1	756.5	763.5	765.9	751.9	737.5	757.7	745.3	741.0
45°	1890.8	1034.8	714.6	720.4	733.2	744.1	735.6	718.1	725.8	671.8	654.0
47.5°	2000.3	1059.6	696.7	689.3	711.5	732.1	718.8	692.4	664.8	611.2	601.1
50°	2128.6	1098.1	680.4	658.6	687.8	715.7	702.5	664.8	623.3	597.2	593.7
52.5°	2262.2	1145.1	664.1	624.8	657.8	703.3	696.7	658.6	607.3	581.7	577.0
55°	2413.8	1192.5	643.5	585.6	625.6	697.5	694.0	636.1	595.3	580.9	577.4
57.5°	2602.2	1246.5	616.3	544.8	595.3	676.5	665.6	622.5	582.9	572.0	570.8
60°	2847.8	1326.2	577.0	501.3	558.4	644.2	641.9	602.7	563.0	555.3	553.7
62.5°	3216.2	1457.9	523.0	457.7	517.2	589.5	610.8	575.9	542.1	541.7	542.4
65°	3787.4	1656.1	464.3	419.7	475.6	543.2	574.7	548.3	520.7	528.5	529.6
67.5°	4449.5	1820.4	406.8	382.3	433.3	499.3	542.1	520.7	492.3	512.5	512.9
70°	4669.8	1673.6	356.3	345.4	389.3	457.0	506.7	490.4	461.6	481.8	479.9
72°	4345.7	1351.0	323.7	317.5	356.3	422.0	475.2	462.0	433.6	447.2	442.2
72.5°	4243.5	1288.1	315.5	310.5	347.4	413.0	467.1	455.0	426.6	438.3	433.6
75°	3785.4	1118.7	271.2	272.4	303.1	369.5	421.2	417.3	388.2	389.3	387.8
77.5°	2745.6	820.3	228.5	236.2	258.0	324.8	375.0	372.6	340.8	334.9	333.8
80°	1274.1	418.5	186.1	189.6	212.2	271.6	319.8	316.7	291.0	283.7	279.4
82.5°	436.4	198.9	139.9	142.2	164.4	218.8	277.4	275.5	254.1	239.7	230.8
85°	155.8	99.1	97.9	95.6	117.3	172.1	241.7	231.2	199.7	170.2	169.4
87.5°	50.5	42.4	50.5	50.1	68.4	116.6	175.6	149.6	144.9	120.5	118.1
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)