

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: P317997

Luminaire Tested: **GAN-SA3B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317997
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-SA3B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14318 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

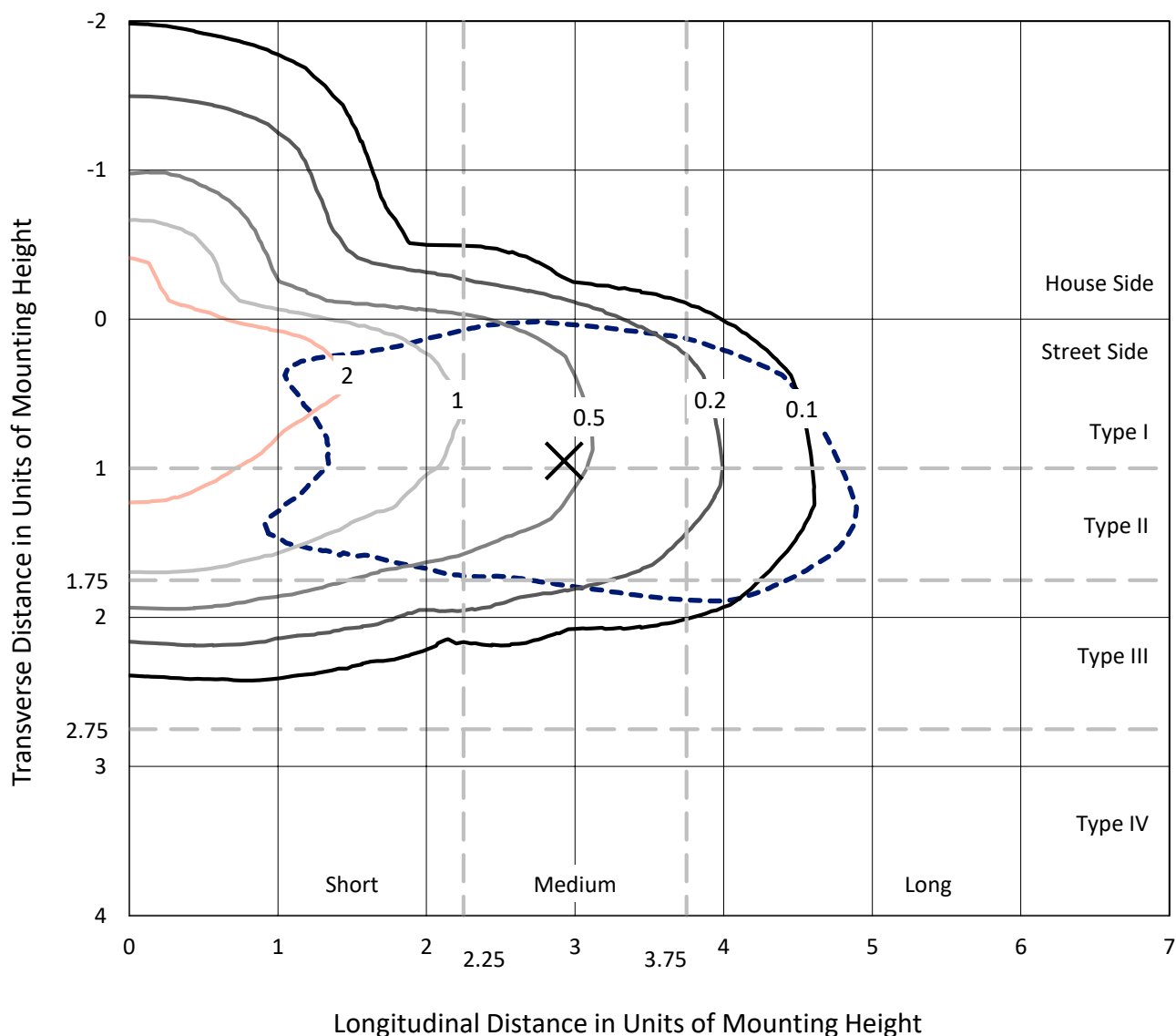
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

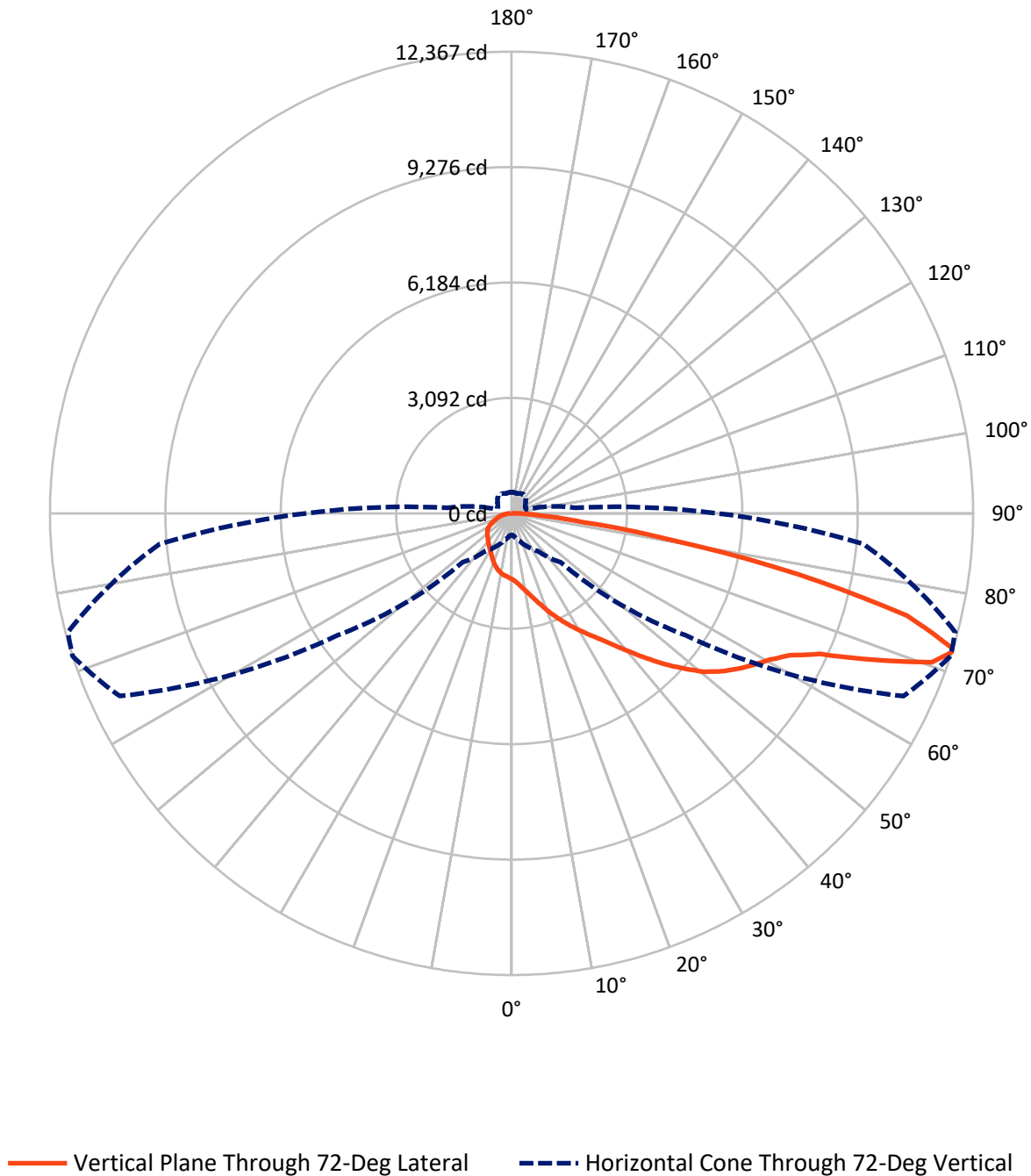
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	2656.1	0.0	2656.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11661.9	0.0	11661.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	14318.0	0.0	14318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.2
10°-20°	570.4	4.0
20°-30°	999.5	7.0
30°-40°	1481.9	10.4
40°-50°	2167.4	15.1
50°-60°	2982.4	20.8
60°-70°	3320.3	23.2
70°-80°	2249.8	15.7
80°-90°	369.8	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°	14318.0	100.0
0°-180°	14318.0	100.0

Coefficient of Utilization



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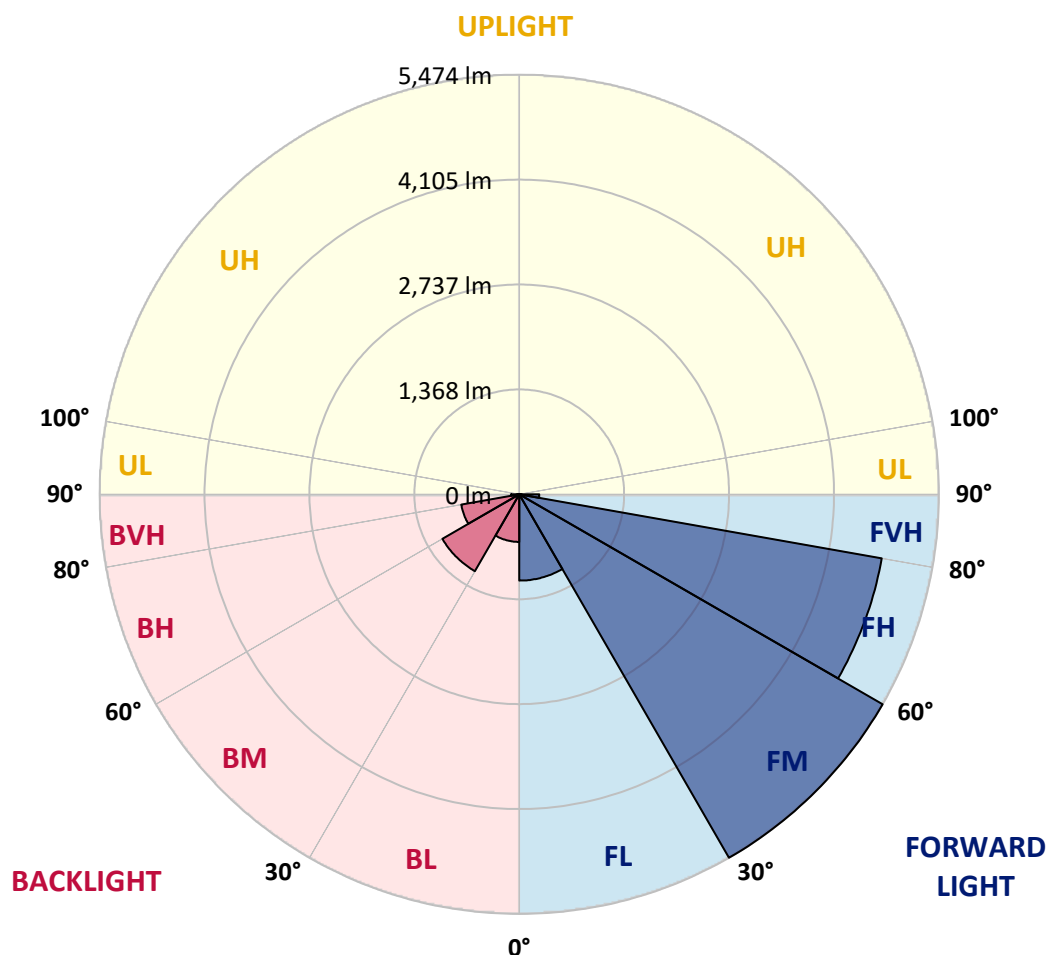
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1125.5	7.9			
FM	(30°-60°)	5474.0	38.2			
FH	(60°-80°)	4801.7	33.5			G2/5000
FVH	(80°-90°)	260.8	1.8			G3/500
BL	(0°-30°)	620.9	4.3	B2/1000		
BM	(30°-60°)	1157.8	8.1	B2/2500		
BH	(60°-80°)	768.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	108.9	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5
2.5°	1945.9	1942.9	1932.6	1932.6	1912.8	1896.1	1864.5	1843.3	1818.2	1809.3	1779.7
5°	2134.2	2135.2	2122.4	2113.5	2084.4	2048.9	1995.2	1946.4	1897.6	1877.8	1817.2
7.5°	2292.4	2290.5	2287.0	2279.6	2252.5	2216.0	2143.6	2071.1	1999.1	1969.5	1865.0
10°	2394.0	2398.4	2401.4	2404.9	2393.5	2367.4	2298.9	2210.6	2116.4	2076.0	1922.2
12.5°	2445.3	2453.2	2467.0	2490.6	2509.4	2506.4	2456.6	2362.9	2251.0	2200.3	1993.7
15°	2475.4	2485.7	2507.4	2549.8	2602.5	2632.6	2619.3	2534.5	2409.8	2347.2	2081.0
17.5°	2494.1	2502.5	2536.0	2592.7	2671.1	2750.9	2785.9	2714.9	2589.2	2517.7	2181.0
20°	2506.9	2513.3	2555.2	2621.8	2723.3	2850.5	2948.1	2930.4	2786.9	2694.2	2285.5
22.5°	2535.5	2540.9	2580.9	2647.9	2760.3	2924.5	3104.4	3131.0	2995.5	2890.5	2397.5
25°	2615.4	2615.4	2648.9	2695.7	2801.2	2988.6	3236.5	3354.4	3208.4	3086.2	2501.0
27.5°	2767.7	2766.2	2778.5	2794.8	2874.7	3053.6	3354.4	3551.6	3429.3	3295.7	2601.6
30°	2948.1	2958.0	2959.5	2951.6	2989.1	3135.0	3463.3	3759.6	3651.6	3507.7	2704.6
32.5°	3180.3	3186.7	3179.4	3153.2	3147.8	3250.3	3570.3	3977.5	3892.2	3729.0	2798.8
35°	3475.2	3462.8	3439.7	3386.4	3335.6	3404.7	3692.6	4195.4	4162.4	3996.7	2928.4
37.5°	3791.2	3791.7	3763.1	3642.3	3572.3	3601.9	3861.2	4442.4	4489.3	4315.2	3094.6
40°	4044.6	4057.9	4075.6	3916.9	3826.2	3867.1	4075.6	4728.9	4875.8	4692.9	3311.0
42.5°	4221.6	4236.8	4287.1	4187.5	4093.4	4169.3	4328.0	5034.5	5309.6	5128.7	3564.4
45°	4408.9	4417.3	4452.8	4409.9	4349.7	4520.8	4612.5	5351.0	5768.6	5593.1	3847.9
47.5°	4606.1	4615.0	4651.5	4622.9	4591.3	4849.1	4909.3	5649.3	6208.3	6103.3	4150.6
50°	4849.6	4855.6	4890.1	4838.3	4848.2	5096.6	5174.5	5922.9	6669.3	6561.8	4454.3
52.5°	5181.9	5183.4	5231.2	5184.4	5138.0	5278.1	5402.8	6180.7	7030.7	6979.9	4757.9
55°	5442.2	5458.0	5614.8	5604.9	5578.3	5442.7	5593.6	6426.2	7353.1	7377.2	5080.4
57.5°	5276.1	5337.7	5655.2	5879.0	6096.9	5852.4	5851.4	6702.8	7652.8	7767.2	5434.8
60°	4620.9	4704.7	5172.6	5669.0	6350.8	6565.3	6386.8	7040.5	7955.5	8153.7	5879.0
62.5°	3300.1	3438.2	4072.2	4864.9	6002.8	7037.6	7476.3	7576.4	8367.2	8601.4	6456.3
65°	1668.3	1772.8	2304.3	3259.2	4795.9	6729.0	8660.5	8749.8	9082.5	9290.6	7345.2
67.5°	1013.6	1053.0	1312.4	1812.8	2940.2	5241.6	9047.0	10705.5	10466.9	10577.3	8612.7
70°	746.9	776.0	937.7	1203.9	1691.0	3075.8	7860.9	12101.2	11944.4	11932.1	9549.4
72°	581.7	602.9	745.9	972.7	1236.4	1845.3	5697.6	11586.0	12367.4	12305.3	9463.6
72.5°	551.7	570.4	700.6	915.5	1168.4	1672.7	5122.8	11238.4	12336.8	12308.7	9352.7
75°	434.3	447.6	518.6	707.9	914.5	949.0	2807.1	8709.3	10944.1	11399.1	8412.1
77.5°	359.4	361.4	398.8	515.2	712.9	671.0	1378.9	6042.7	7836.7	8337.1	5958.9
80°	292.8	295.3	313.1	361.4	539.3	496.5	654.7	3474.7	4387.7	4393.1	2833.8
82.5°	233.2	233.7	253.4	264.2	387.5	355.0	375.2	1631.3	1917.3	1844.3	1018.5
85°	164.2	160.7	247.5	216.9	253.4	227.8	207.1	645.8	792.7	758.2	319.0
87.5°	54.7	56.7	109.9	140.5	147.9	129.2	92.2	247.5	299.3	296.8	101.1
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°	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5	1761.5
2.5°	1770.4	1754.6	1731.4	1705.8	1685.6	1664.9	1649.6	1641.7	1632.8	1625.4	1634.3
5°	1789.1	1759.5	1710.2	1661.9	1626.4	1594.9	1572.2	1560.3	1549.5	1542.1	1543.1
7.5°	1819.7	1771.8	1689.0	1618.5	1569.2	1535.2	1512.0	1504.1	1497.2	1495.3	1497.7
10°	1852.2	1781.7	1660.9	1567.2	1511.0	1482.9	1472.6	1478.0	1482.9	1487.4	1492.3
12.5°	1889.2	1790.6	1620.0	1507.1	1459.3	1448.4	1458.8	1482.4	1499.7	1510.1	1516.5
15°	1937.5	1798.5	1572.7	1447.0	1414.9	1427.2	1462.2	1503.2	1533.2	1552.5	1555.4
17.5°	1981.9	1798.0	1512.0	1386.3	1378.9	1414.9	1467.7	1525.3	1565.8	1592.9	1598.3
20°	2027.7	1784.7	1441.5	1327.2	1342.4	1401.6	1470.1	1539.6	1588.4	1620.0	1627.4
22.5°	2070.6	1761.5	1364.1	1273.4	1311.9	1383.8	1460.8	1531.3	1580.1	1605.7	1613.6
25°	2099.7	1721.1	1285.7	1228.1	1284.8	1362.2	1430.2	1486.9	1523.4	1536.2	1538.2
27.5°	2114.5	1668.3	1211.8	1188.6	1256.7	1326.7	1373.5	1401.6	1412.0	1411.0	1409.0
30°	2116.4	1598.8	1148.2	1156.6	1224.1	1274.4	1296.6	1291.2	1277.9	1255.2	1257.1
32.5°	2110.0	1520.4	1095.0	1126.0	1182.7	1210.8	1211.8	1185.7	1150.2	1114.2	1104.3
35°	2112.0	1443.5	1048.1	1091.5	1132.4	1144.7	1133.4	1095.0	1046.6	1000.3	990.4
37.5°	2133.7	1376.5	1007.7	1051.6	1076.7	1079.7	1063.4	1023.0	987.5	942.1	938.2
40°	2185.5	1328.6	969.2	1006.7	1021.0	1022.5	999.3	970.7	973.7	949.5	949.0
42.5°	2278.6	1307.9	935.2	959.9	968.7	971.7	954.0	935.7	961.3	945.6	940.2
45°	2398.9	1312.9	906.6	914.0	930.3	944.1	933.2	911.1	920.9	852.4	829.7
47.5°	2538.0	1344.4	883.9	874.6	902.7	928.8	912.0	878.5	843.5	775.5	762.7
50°	2700.7	1393.2	863.2	835.6	872.6	908.1	891.3	843.5	790.8	757.7	753.3
52.5°	2870.2	1452.9	842.5	792.7	834.6	892.3	883.9	835.6	770.6	738.0	732.1
55°	3062.5	1513.0	816.4	743.0	793.7	884.9	880.5	807.0	755.3	737.0	732.6
57.5°	3301.6	1581.5	781.9	691.2	755.3	858.3	844.5	789.8	739.5	725.7	724.2
60°	3613.2	1682.6	732.1	636.0	708.4	817.4	814.4	764.6	714.4	704.5	702.5
62.5°	4080.6	1849.7	663.6	580.8	656.2	747.9	775.0	730.6	687.7	687.2	688.2
65°	4805.3	2101.2	589.1	532.4	603.4	689.2	729.1	695.6	660.6	670.5	672.0
67.5°	5645.3	2309.7	516.2	485.1	549.7	633.5	687.7	660.6	624.6	650.3	650.8
70°	5924.9	2123.3	452.1	438.3	494.0	579.8	642.9	622.2	585.7	611.3	608.9
72°	5513.7	1714.2	410.7	402.8	452.1	535.4	602.9	586.2	550.2	567.4	561.0
72.5°	5384.0	1634.3	400.3	393.9	440.7	524.1	592.6	577.3	541.3	556.1	550.2
75°	4802.8	1419.3	344.1	345.6	384.5	468.8	534.4	529.5	492.5	494.0	492.0
77.5°	3483.5	1040.7	289.9	299.7	327.4	412.1	475.7	472.8	432.4	425.0	423.5
80°	1616.5	531.0	236.1	240.6	269.2	344.6	405.7	401.8	369.3	359.9	354.5
82.5°	553.6	252.4	177.5	180.4	208.5	277.6	352.0	349.5	322.4	304.2	292.8
85°	197.7	125.7	124.2	121.3	148.9	218.4	306.6	293.3	253.4	215.9	214.9
87.5°	64.1	53.7	64.1	63.6	86.8	147.9	222.8	189.8	183.9	152.8	149.9
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)