

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: P459445

Luminaire Tested: **GLAN-SA9A-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38998 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

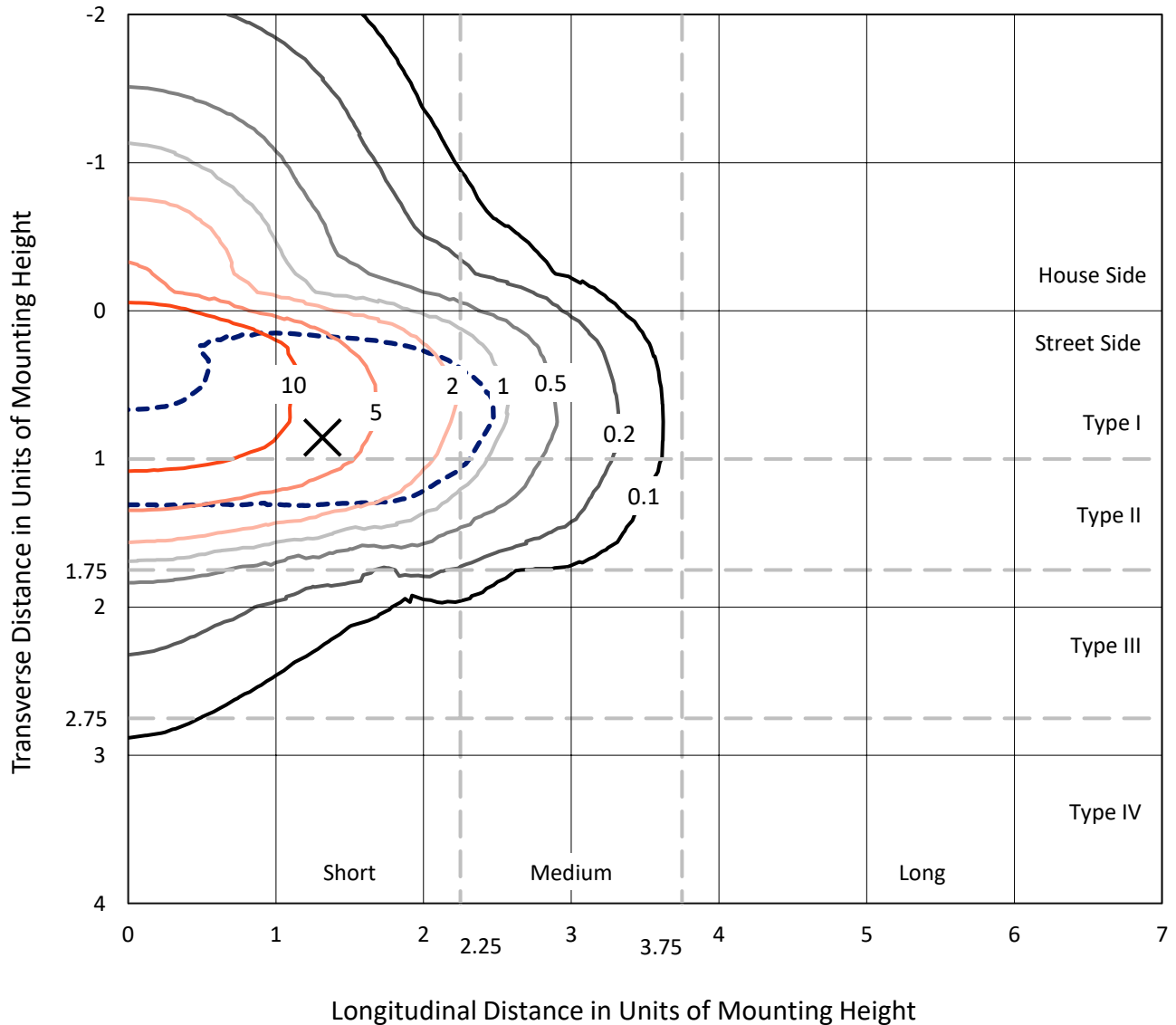
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

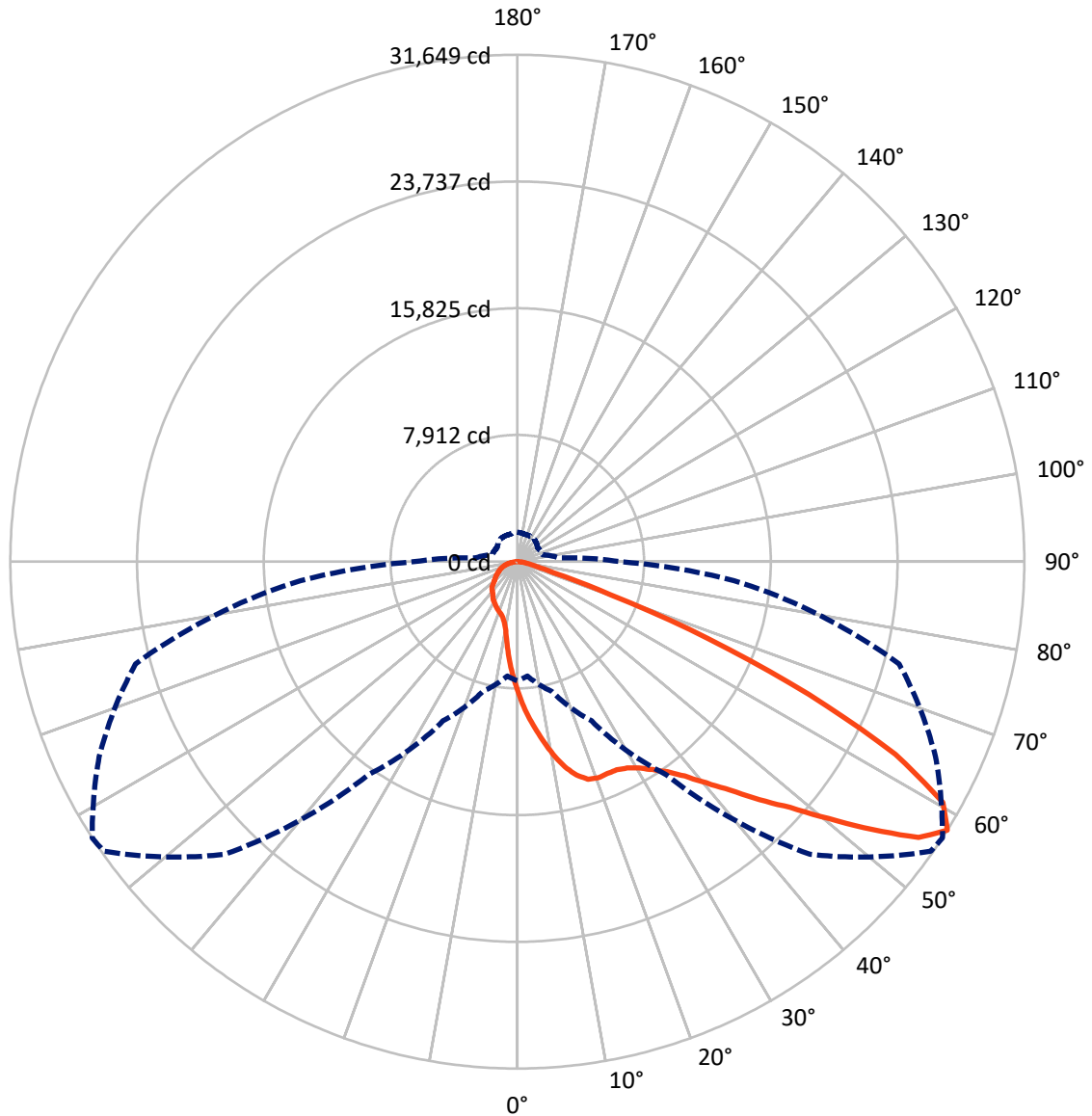
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5930.5	0.0	5930.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	33067.5	0.0	33067.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	38998.0	0.0	38998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.4	2.0
10°-20°	2320.6	6.0
20°-30°	3853.4	9.9
30°-40°	5804.3	14.9
40°-50°	8714.7	22.3
50°-60°	9768.1	25.0
60°-70°	5716.7	14.7
70°-80°	1691.0	4.3
80°-90°	341.8	0.9
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°	38998.0	100.0
0°-180°	38998.0	100.0

Coefficient of Utilization



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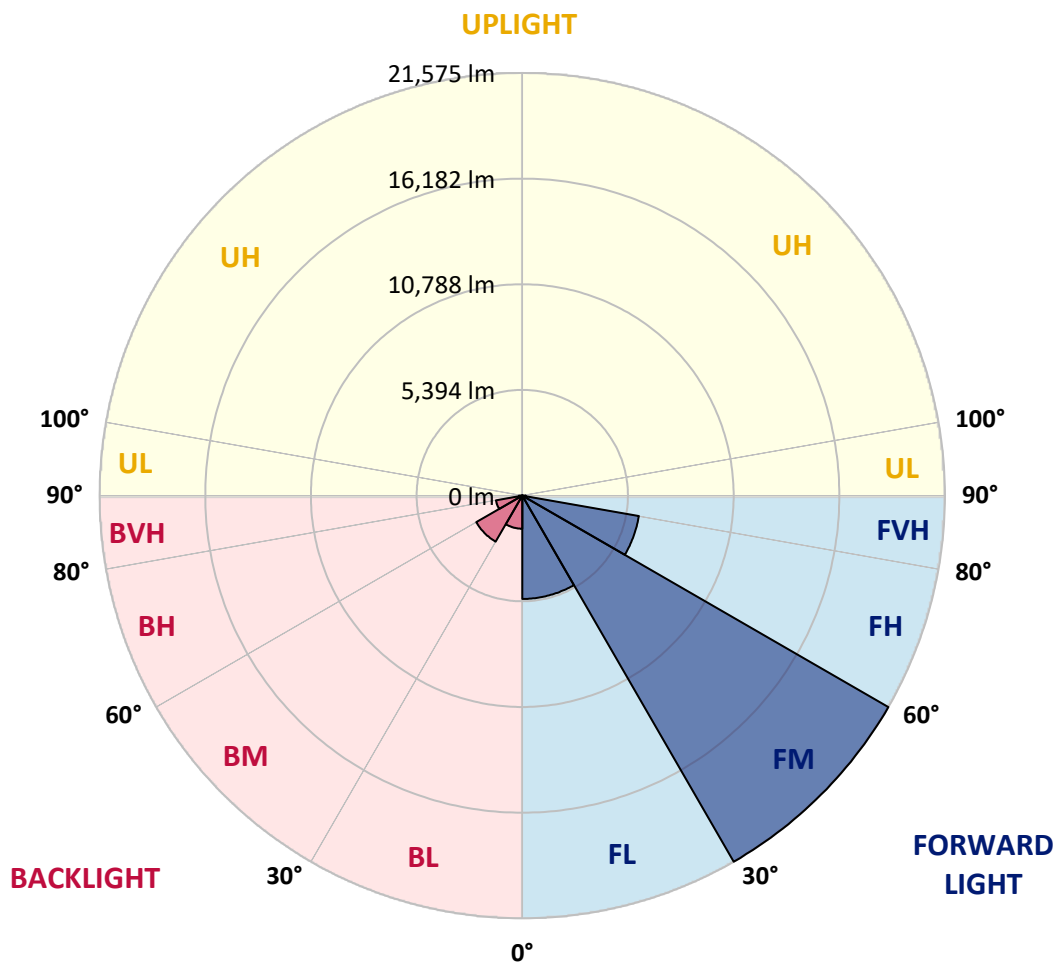
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5271.6	13.5			
FM	(30°-60°)	21575.4	55.3			
FH	(60°-80°)	6043.1	15.5			G3/7500
FVH	(80°-90°)	177.3	0.5			G2/225
BL	(0°-30°)	1689.8	4.3	B3/2500		
BM	(30°-60°)	2711.7	7.0	B3/5000		
BH	(60°-80°)	1364.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	164.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0
2.5°	10180.5	10069.4	9981.9	9905.1	9804.7	9533.6	9262.5	9258.3	9042.6	8709.6	8368.1
5°	11839.1	11689.7	11708.9	11469.8	11230.7	10837.9	10263.7	10233.8	9774.9	9151.5	8517.5
7.5°	12919.3	12921.4	12861.7	12725.0	12466.7	12020.6	11369.5	11222.2	10583.9	9638.2	8688.3
10°	12863.8	12921.4	13021.8	13139.2	13218.2	12998.3	12404.8	12225.5	11395.1	10227.4	8878.3
12.5°	12125.2	12214.8	12357.9	12652.5	13128.5	13491.4	13288.6	13143.4	12334.4	10814.5	9087.5
15°	11664.1	11717.4	11796.4	11995.0	12507.3	13376.1	13901.3	13824.4	13220.3	11478.4	9322.3
17.5°	11523.2	11576.6	11602.2	11723.9	12088.9	12979.1	14142.5	14279.1	14005.9	12088.9	9559.3
20°	11664.1	11689.7	11689.7	11762.3	12048.3	12746.4	14131.8	14407.2	14650.5	12821.1	9781.3
22.5°	12033.4	12044.1	12029.1	12054.7	12268.2	12810.4	14031.5	14373.0	15171.4	13442.3	9954.2
25°	12633.2	12650.3	12552.1	12492.3	12648.2	13092.2	14087.0	14400.8	15579.1	14035.7	10069.4
27.5°	13314.2	13335.6	13216.0	13077.3	13149.8	13440.2	14304.7	14586.5	15884.4	14620.7	10142.0
30°	14148.9	14157.4	13956.8	13790.3	13743.3	13958.9	14676.2	14938.7	16264.4	15310.2	10250.9
32.5°	15002.8	15066.8	14808.5	14573.7	14494.7	14560.9	15224.8	15478.8	16716.9	16050.9	10425.9
35°	16164.1	16174.7	15865.2	15579.1	15318.7	15404.1	15927.1	16110.7	17342.4	16906.9	10673.6
37.5°	17613.5	17711.7	17284.8	16751.1	16430.9	16307.1	16776.7	16977.4	18219.8	17957.2	11047.1
40°	19223.1	19259.4	18894.4	18561.3	17976.4	17617.8	17942.3	18160.0	19302.1	19210.3	11480.5
42.5°	20235.0	20313.9	20341.7	20307.5	19867.8	19265.8	19389.6	19492.1	20582.9	20386.5	11924.5
45°	20576.5	20693.9	21091.0	21932.1	21979.0	21385.6	21097.4	21195.6	21979.0	21573.4	12349.3
47.5°	20010.8	20211.5	20943.7	22668.5	23960.0	24004.9	23136.0	22920.4	23251.3	22557.5	12656.7
50°	18548.5	18591.2	19712.0	22209.6	24888.6	26508.9	25610.2	25208.8	24459.6	23285.5	12868.1
52.5°	16285.7	16334.8	17274.1	20077.0	24316.5	28259.3	28504.8	27787.6	25687.0	23851.2	13006.8
55°	12088.9	12372.8	13406.0	16115.0	21605.4	28095.0	30806.1	30398.3	27170.6	24299.5	13224.6
57.5°	7433.1	7172.6	8398.0	10963.9	16249.4	25836.4	31516.9	31649.3	28803.7	24675.2	13589.6
60°	3419.8	3471.0	3977.0	5654.9	9905.1	20211.5	29685.3	30522.1	29706.7	24662.4	13681.4
62.5°	2356.7	2309.8	2181.7	2482.7	4517.1	12782.7	25074.4	26491.8	27896.4	23896.0	13316.3
65°	2107.0	2060.0	1812.4	1729.1	2074.9	5571.6	18228.3	20017.2	23488.3	21961.9	12407.0
67.5°	1968.2	1904.2	1648.0	1485.8	1481.5	2218.0	10748.3	12902.2	17421.4	18567.7	10750.4
70°	1823.0	1771.8	1517.8	1338.5	1261.6	1394.0	4724.1	6184.3	11311.9	13380.4	8374.5
72.5°	1677.9	1618.1	1389.7	1197.6	1097.2	1043.9	1810.2	2354.6	6391.3	8022.3	5134.0
75°	1466.5	1436.7	1242.4	1084.4	975.6	843.2	1148.5	1310.7	3056.9	3684.5	2576.6
77.5°	1283.0	1250.9	1103.6	947.8	868.8	685.2	815.5	890.2	1289.4	1494.3	1163.4
80°	939.3	971.3	930.7	836.8	774.9	537.9	548.6	610.5	766.4	847.5	710.9
82.5°	595.6	655.4	717.3	644.7	587.0	424.8	380.0	403.5	523.0	555.0	315.9
85°	249.8	254.0	416.3	392.8	335.2	251.9	228.4	241.2	279.6	292.5	147.3
87.5°	96.1	93.9	147.3	136.6	104.6	72.6	72.6	81.1	111.0	102.5	47.0
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°	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0	8193.0
2.5°	8220.8	8069.2	7768.2	7394.7	7121.4	6814.0	6542.9	6348.6	6276.1	6241.9	6177.9
5°	8214.4	7915.5	7292.2	6639.0	6113.8	5575.9	5121.2	4826.6	4801.0	4604.6	4585.4
7.5°	8216.5	7759.7	6767.0	5806.4	5005.9	4455.1	4079.4	3981.2	3863.8	3833.9	3848.9
10°	8222.9	7561.2	6203.5	4982.4	4207.5	3846.8	3705.9	3667.4	3671.7	3684.5	3686.7
12.5°	8231.5	7369.0	5618.6	4357.0	3759.2	3609.8	3594.9	3629.0	3665.3	3693.1	3699.5
15°	8242.1	7149.2	5048.6	3853.2	3535.1	3522.3	3571.4	3629.0	3680.2	3720.8	3727.2
17.5°	8229.3	6893.0	4570.4	3543.6	3411.3	3473.2	3554.3	3626.9	3673.8	3712.3	3716.5
20°	8199.4	6606.9	4109.3	3325.9	3334.4	3434.8	3522.3	3590.6	3641.8	3661.0	3676.0
22.5°	8084.2	6265.4	3708.0	3157.2	3242.6	3381.4	3486.0	3526.5	3468.9	3428.4	3439.0
25°	7887.8	5821.4	3334.4	3020.6	3159.4	3306.7	3413.4	3315.2	3268.2	3251.2	3259.7
27.5°	7642.3	5334.7	3052.6	2877.6	3052.6	3223.4	3193.5	3176.5	3155.1	3127.4	3133.8
30°	7377.6	4858.6	2813.6	2766.6	2937.4	3035.6	3048.4	3076.1	3052.6	3009.9	3027.0
32.5°	7132.1	4410.3	2632.1	2672.7	2856.2	2841.3	2937.4	2969.4	2860.5	2717.5	2723.9
35°	6922.9	3994.1	2495.5	2580.9	2717.5	2723.9	2820.0	2709.0	2591.5	2523.2	2527.5
37.5°	6764.9	3669.6	2405.8	2501.9	2540.3	2621.4	2570.2	2512.6	2497.6	2450.7	2452.8
40°	6671.0	3385.7	2348.2	2440.0	2433.6	2489.1	2324.7	2382.3	2403.7	2388.7	2390.9
42.5°	6577.1	3185.0	2288.4	2354.6	2352.5	2243.6	2207.3	2256.4	2311.9	2318.3	2314.0
45°	6502.3	3029.2	2226.5	2224.4	2267.1	2096.3	2085.6	2115.5	2194.5	2232.9	2230.8
47.5°	6419.1	2898.9	2132.6	2072.8	2085.6	2004.5	1987.4	2000.2	2096.3	2158.2	2175.3
50°	6314.5	2768.7	2015.2	1934.1	1880.7	1919.1	1923.4	1925.5	2021.6	2092.0	2107.0
52.5°	6231.2	2670.5	1880.7	1820.9	1756.9	1842.3	1874.3	1878.5	1936.2	1993.8	2004.5
55°	6280.3	2615.0	1748.3	1705.6	1648.0	1763.3	1825.2	1833.7	1846.5	1889.2	1895.6
57.5°	6427.6	2627.8	1641.6	1586.1	1543.4	1669.3	1773.9	1780.4	1771.8	1823.0	1831.6
60°	6472.5	2621.4	1562.6	1453.7	1428.1	1569.0	1699.2	1712.0	1709.9	1784.6	1799.6
62.5°	6284.6	2540.3	1483.6	1342.7	1325.7	1466.5	1594.6	1645.9	1656.5	1763.3	1782.5
65°	5842.7	2373.8	1379.0	1225.3	1225.3	1357.7	1494.3	1564.7	1594.6	1737.7	1759.0
67.5°	5259.9	2177.4	1272.3	1125.0	1120.7	1253.1	1387.6	1460.1	1507.1	1701.4	1714.2
70°	4365.5	1912.7	1139.9	1016.1	1016.1	1135.7	1257.3	1344.9	1413.2	1633.1	1633.1
72.5°	2990.7	1590.4	979.8	892.3	894.4	1005.5	1129.3	1227.5	1308.6	1496.4	1500.7
75°	1891.4	1242.4	804.8	760.0	768.5	873.1	1001.2	1103.6	1265.9	1479.4	1485.8
77.5°	1005.5	873.1	640.4	629.7	640.4	736.5	879.5	1020.4	1270.2	1283.0	1261.6
80°	651.1	619.1	505.9	484.6	488.8	593.5	783.4	969.2	1020.4	1033.2	986.2
82.5°	354.4	392.8	358.6	337.3	337.3	463.2	668.2	770.6	732.2	608.4	580.6
85°	151.6	183.6	185.7	162.2	155.8	286.1	448.3	420.5	390.7	373.6	369.3
87.5°	42.7	59.8	59.8	44.8	34.2	79.0	89.7	25.6	0.0	2.1	4.3
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)