

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: P452764

Luminaire Tested: **GLAN-SA3D-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19152 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

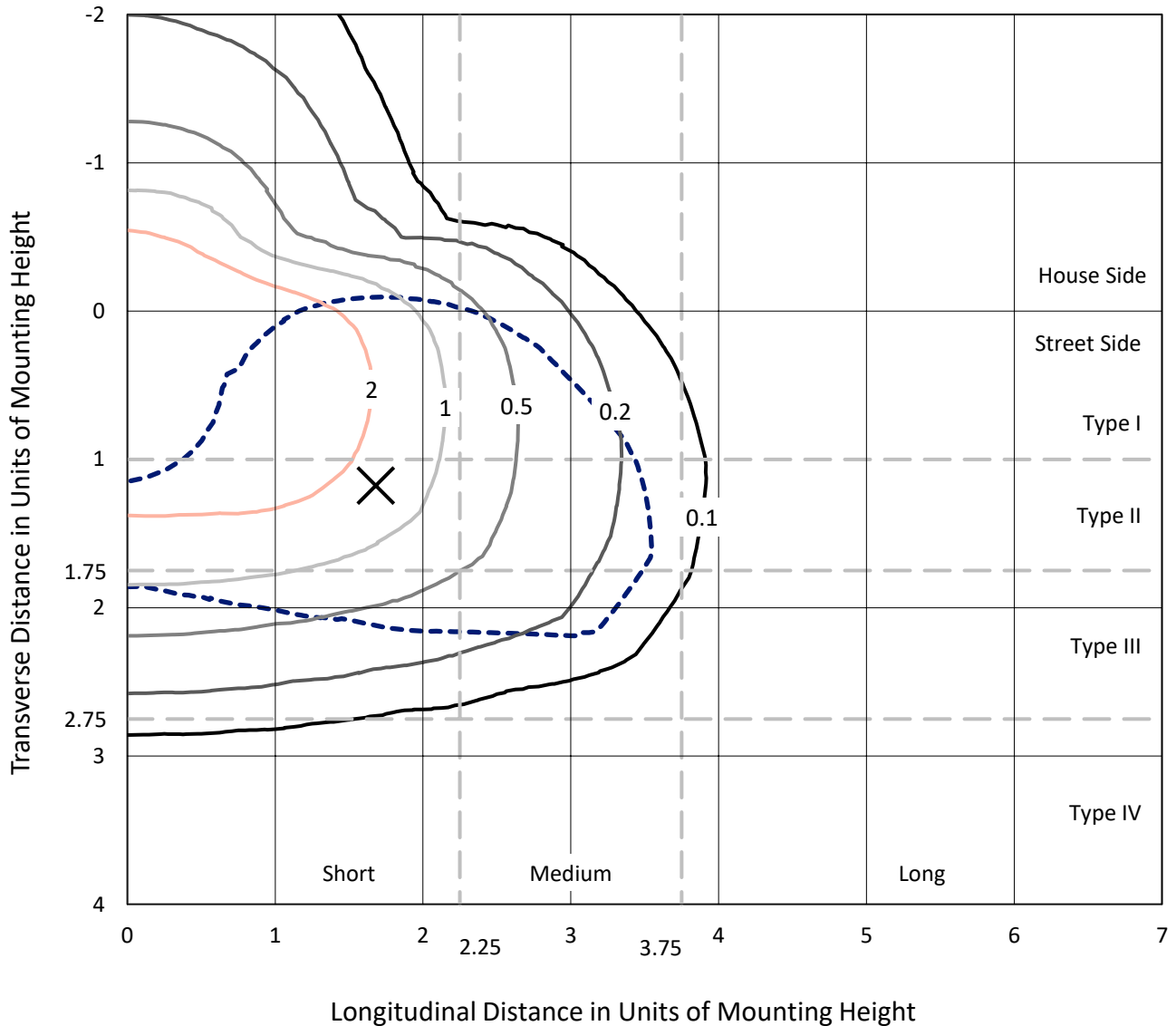
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

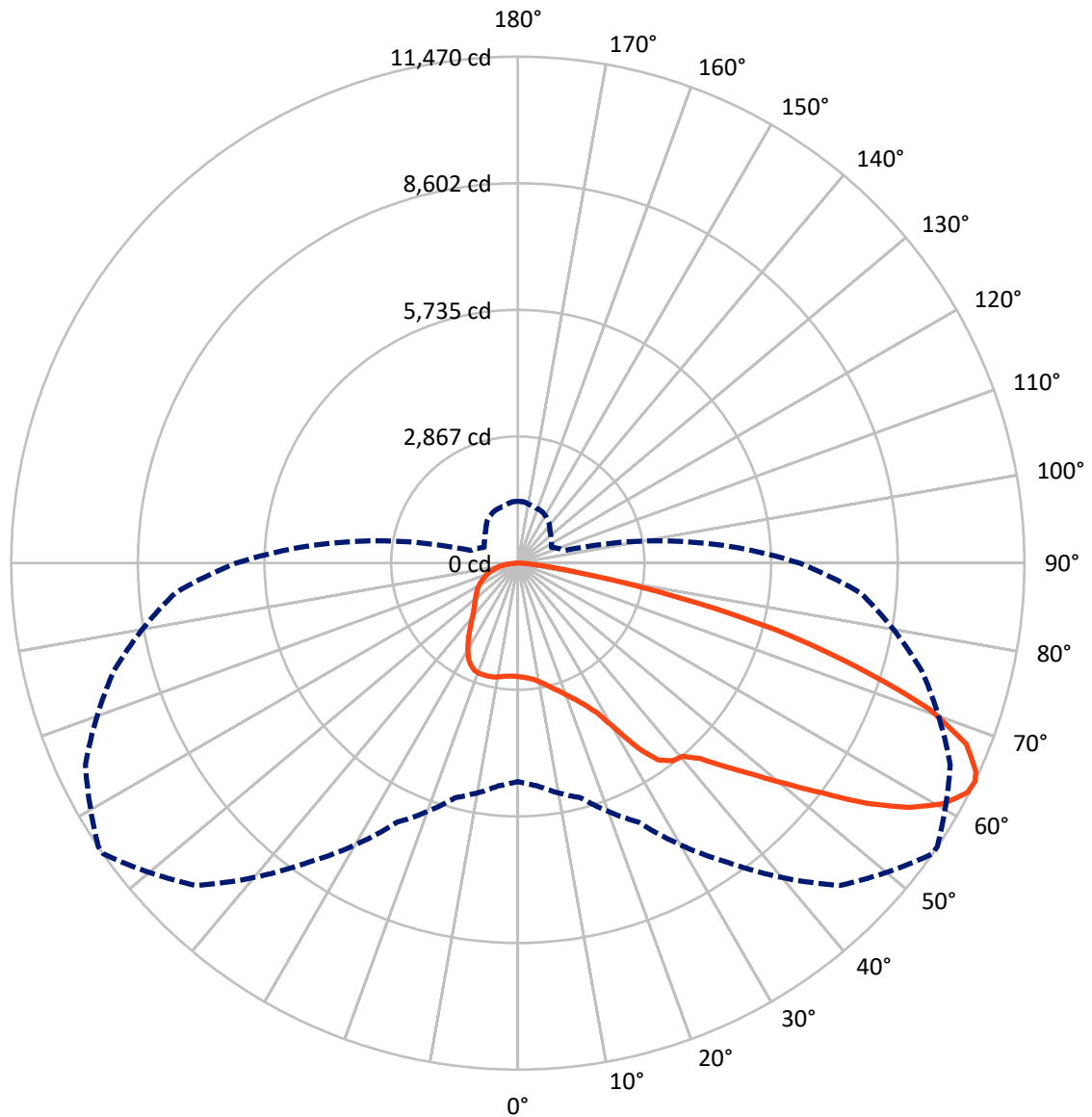
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4652.4	0.0	4652.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	14499.6	0.0	14499.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	19152.0	0.0	19152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.3
10°-20°	788.7	4.1
20°-30°	1404.1	7.3
30°-40°	2160.3	11.3
40°-50°	3062.4	16.0
50°-60°	4432.8	23.1
60°-70°	4587.4	24.0
70°-80°	2148.3	11.2
80°-90°	318.0	1.7
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°	19152.0	100.0
0°-180°	19152.0	100.0

Coefficient of Utilization



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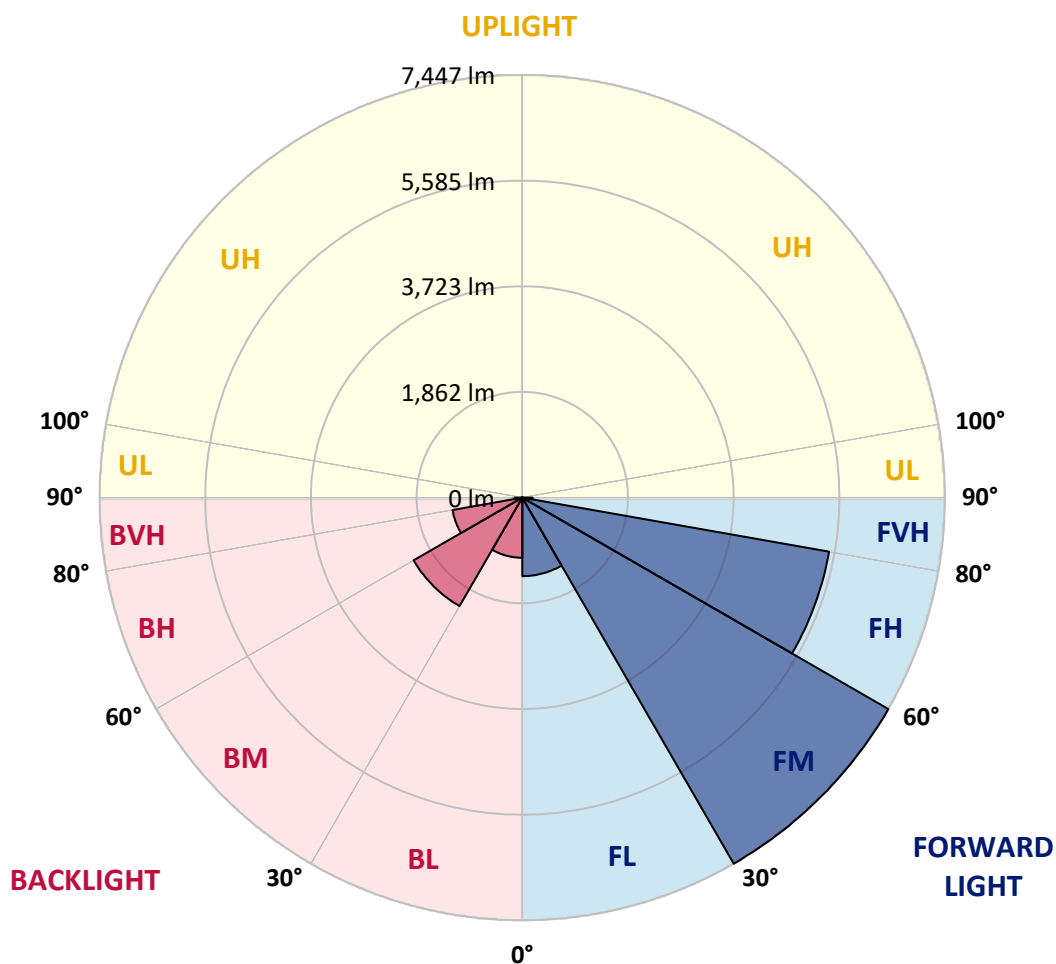
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.1	7.2			
FM	(30°-60°)	7446.8	38.9			
FH	(60°-80°)	5487.6	28.7			G3/7500
FVH	(80°-90°)	182.1	1.0			G2/225
BL	(0°-30°)	1059.6	5.5	B3/2500		
BM	(30°-60°)	2208.7	11.5	B2/2500		
BH	(60°-80°)	1248.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	135.9	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6
2.5°	2598.4	2597.4	2600.6	2597.4	2599.5	2592.0	2588.8	2591.0	2587.8	2582.4	2572.8
5°	2630.5	2629.4	2630.5	2626.2	2628.3	2624.1	2616.6	2618.7	2613.4	2601.6	2587.8
7.5°	2684.9	2680.6	2680.6	2679.6	2675.3	2668.9	2663.6	2661.4	2656.1	2641.1	2619.8
10°	2755.4	2755.4	2756.4	2747.9	2753.2	2741.5	2736.2	2735.1	2716.9	2697.7	2667.8
12.5°	2848.3	2853.6	2850.4	2846.1	2844.0	2839.7	2821.6	2825.8	2805.6	2772.5	2736.2
15°	2963.6	2972.1	2966.8	2964.6	2959.3	2943.3	2935.8	2932.6	2905.9	2857.9	2809.8
17.5°	3116.2	3105.5	3101.3	3095.9	3073.5	3061.8	3049.0	3046.8	3023.3	2966.8	2892.0
20°	3249.7	3264.6	3256.1	3250.7	3228.3	3205.9	3196.3	3193.1	3172.8	3110.9	2991.3
22.5°	3408.7	3411.9	3415.1	3402.3	3391.6	3374.6	3357.5	3352.1	3344.7	3280.6	3134.4
25°	3578.5	3591.3	3580.6	3567.8	3555.0	3553.9	3569.9	3567.8	3564.6	3502.7	3324.4
27.5°	3855.0	3866.7	3869.9	3856.0	3806.9	3811.2	3847.5	3859.2	3908.3	3805.9	3568.9
30°	4010.8	4022.6	4049.3	4101.6	4179.5	4247.8	4335.4	4362.1	4409.0	4215.8	3859.2
32.5°	4106.9	4111.2	4159.2	4256.4	4490.2	4745.3	4983.4	4993.0	5022.9	4751.7	4125.1
35°	4258.5	4261.7	4300.1	4406.9	4681.3	5106.1	5474.5	5486.2	5461.6	4918.3	4248.9
37.5°	4445.3	4453.9	4478.4	4567.0	4894.8	5408.3	5678.4	5669.8	5452.0	5050.6	4467.7
40°	4717.6	4717.6	4688.7	4808.3	5120.0	5581.2	5749.9	5734.9	5677.3	5433.9	4800.8
42.5°	4957.8	4953.5	5021.8	5102.9	5401.9	5848.1	6049.9	6074.4	6169.4	5915.4	5179.8
45°	5270.6	5289.8	5328.2	5475.5	5881.2	6304.0	6564.4	6587.9	6722.4	6482.2	5622.8
47.5°	5586.5	5593.0	5713.6	5910.0	6474.8	6922.1	7135.6	7174.0	7296.8	7145.2	6100.0
50°	5810.7	5871.6	6064.8	6374.4	7086.5	7675.8	7842.3	7888.2	8104.9	7866.9	6656.2
52.5°	6047.7	6107.5	6343.4	6815.3	7788.9	8446.5	8651.5	8682.5	8907.7	8597.1	7225.3
55°	6250.6	6306.1	6574.0	7206.0	8348.3	9233.3	9604.9	9568.6	9676.4	9159.7	7664.0
57.5°	6283.7	6328.5	6665.9	7455.8	8768.9	9908.0	10440.8	10462.1	10337.2	9580.3	8025.9
60°	6027.5	6119.3	6506.8	7429.2	8957.9	10377.8	11064.2	11079.2	10724.7	9795.9	8170.0
62.5°	5573.7	5564.1	6032.8	7000.0	8693.2	10484.5	11431.4	11415.4	10876.3	9692.4	8030.2
64°	4947.1	5062.4	5500.1	6472.6	8266.1	10320.1	11469.9	11461.3	10803.7	9476.7	7792.1
65°	4564.9	4558.5	4990.8	6041.3	7841.2	10072.4	11401.6	11389.8	10652.1	9283.5	7607.4
67.5°	3295.6	3310.5	3737.5	4662.0	6374.4	9104.2	10956.4	10912.6	10054.3	8643.0	6905.0
70°	1996.3	2004.9	2340.1	3092.7	4575.6	7359.8	9876.0	9878.1	9139.4	7686.4	5876.9
72.5°	1051.5	1074.0	1208.5	1756.1	2778.9	5163.8	8012.0	8202.1	7846.6	6560.2	4642.8
75°	585.0	588.2	683.2	865.8	1417.7	2889.9	6022.1	6076.6	6212.1	5280.2	3433.3
77.5°	446.2	452.6	482.5	559.4	771.8	1339.8	3644.7	3918.0	4378.1	3722.6	1959.0
80°	361.9	368.3	393.9	439.8	513.5	635.2	1693.2	1840.5	2343.3	1652.6	764.4
82.5°	281.8	277.6	310.7	340.6	373.6	375.8	695.0	768.6	954.4	711.0	330.9
85°	209.2	209.2	235.9	229.5	241.3	219.9	306.4	338.4	382.2	302.1	153.7
87.5°	83.3	91.8	154.8	138.8	107.8	86.5	113.2	119.6	132.4	118.5	64.1
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°	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6
2.5°	2573.9	2577.1	2569.6	2564.3	2562.1	2558.9	2555.7	2556.8	2561.1	2565.4	2564.3
5°	2586.7	2587.8	2575.0	2568.6	2564.3	2560.0	2560.0	2563.2	2571.8	2578.2	2578.2
7.5°	2618.7	2618.7	2600.6	2588.8	2582.4	2575.0	2572.8	2573.9	2580.3	2588.8	2589.9
10°	2668.9	2664.6	2641.1	2623.0	2611.3	2593.1	2577.1	2568.6	2571.8	2577.1	2577.1
12.5°	2729.8	2718.0	2688.1	2663.6	2634.7	2600.6	2567.5	2550.4	2549.3	2554.7	2552.5
15°	2794.9	2782.1	2740.4	2695.6	2645.4	2595.2	2555.7	2531.2	2512.0	2506.6	2518.4
17.5°	2870.7	2844.0	2786.3	2724.4	2649.7	2584.6	2522.6	2472.5	2438.3	2428.7	2431.9
20°	2962.5	2927.3	2849.3	2752.2	2646.5	2546.1	2450.1	2382.8	2327.3	2310.2	2312.3
22.5°	3089.5	3028.7	2914.4	2766.1	2619.8	2473.5	2340.1	2252.6	2185.3	2158.6	2174.6
25°	3233.6	3167.5	2976.4	2762.8	2550.4	2357.2	2209.9	2095.6	2034.8	1995.3	2003.8
27.5°	3432.2	3314.8	3042.6	2734.0	2451.1	2215.2	2044.4	1936.6	1881.0	1860.8	1870.4
30°	3686.3	3505.9	3114.1	2656.1	2294.2	2035.8	1877.8	1807.4	1774.3	1748.7	1757.2
32.5°	3869.9	3640.4	3130.1	2524.8	2124.4	1872.5	1764.7	1712.4	1676.1	1651.5	1656.9
35°	4001.2	3754.6	3122.6	2363.6	1947.2	1738.0	1675.0	1632.3	1573.6	1520.2	1510.6
37.5°	4177.4	3897.7	3068.2	2187.4	1772.2	1647.2	1602.4	1523.4	1439.1	1367.5	1364.3
40°	4447.5	4065.3	2951.8	1980.3	1622.7	1580.0	1525.5	1423.1	1332.3	1274.7	1270.4
42.5°	4726.1	4220.1	2793.8	1762.5	1499.9	1509.5	1443.3	1341.9	1286.4	1249.0	1244.8
45°	5066.6	4387.7	2623.0	1573.6	1409.2	1443.3	1371.8	1313.1	1280.0	1255.5	1249.0
47.5°	5435.0	4559.6	2430.8	1403.8	1332.3	1382.5	1341.9	1315.2	1297.1	1280.0	1272.5
50°	5832.1	4751.7	2250.4	1267.2	1262.9	1319.5	1338.7	1329.1	1318.4	1313.1	1306.7
52.5°	6267.7	4948.1	2098.8	1171.1	1202.1	1274.7	1339.8	1347.3	1347.3	1344.1	1339.8
55°	6562.3	5084.8	1945.1	1093.2	1140.2	1238.4	1337.7	1366.5	1377.2	1372.9	1368.6
57.5°	6780.1	5159.5	1751.9	1025.9	1087.8	1203.1	1325.9	1368.6	1379.3	1384.6	1382.5
60°	6824.9	5090.1	1498.9	955.5	1031.3	1151.9	1283.2	1336.6	1350.5	1383.6	1386.8
62.5°	6623.2	4876.6	1246.9	886.1	961.9	1074.0	1225.6	1300.3	1328.0	1379.3	1384.6
64°	6375.5	4637.5	1107.1	842.3	917.0	1030.2	1196.7	1290.7	1327.0	1395.3	1399.6
65°	6194.0	4463.5	1019.5	814.5	888.2	1001.4	1180.7	1293.9	1336.6	1419.9	1426.3
67.5°	5525.7	3864.6	843.4	749.4	819.9	952.3	1183.9	1320.6	1334.5	1429.5	1428.4
70°	4572.4	3076.7	706.7	689.6	753.7	912.8	1171.1	1277.9	1278.9	1341.9	1327.0
72.5°	3423.7	2273.9	612.8	627.7	680.0	818.8	1106.0	1220.2	1202.1	1210.6	1195.7
75°	2351.8	1504.2	527.4	561.5	603.2	723.8	1014.2	1108.1	1079.3	1068.6	1058.0
77.5°	1255.5	831.6	438.8	496.4	524.2	625.6	885.0	975.8	945.9	904.2	890.3
80°	508.2	391.8	353.4	411.0	427.0	503.9	736.6	793.2	770.8	698.2	674.7
82.5°	255.1	234.9	277.6	323.5	324.5	359.8	547.7	601.0	550.9	462.3	442.0
85°	133.4	137.7	191.1	227.4	200.7	194.3	328.8	364.0	334.1	290.4	261.6
87.5°	48.0	55.5	100.4	99.3	70.5	37.4	72.6	35.2	19.2	11.7	14.9
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)