

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: P458854

Luminaire Tested: **GLAN-SA3D-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458854
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-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21333 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

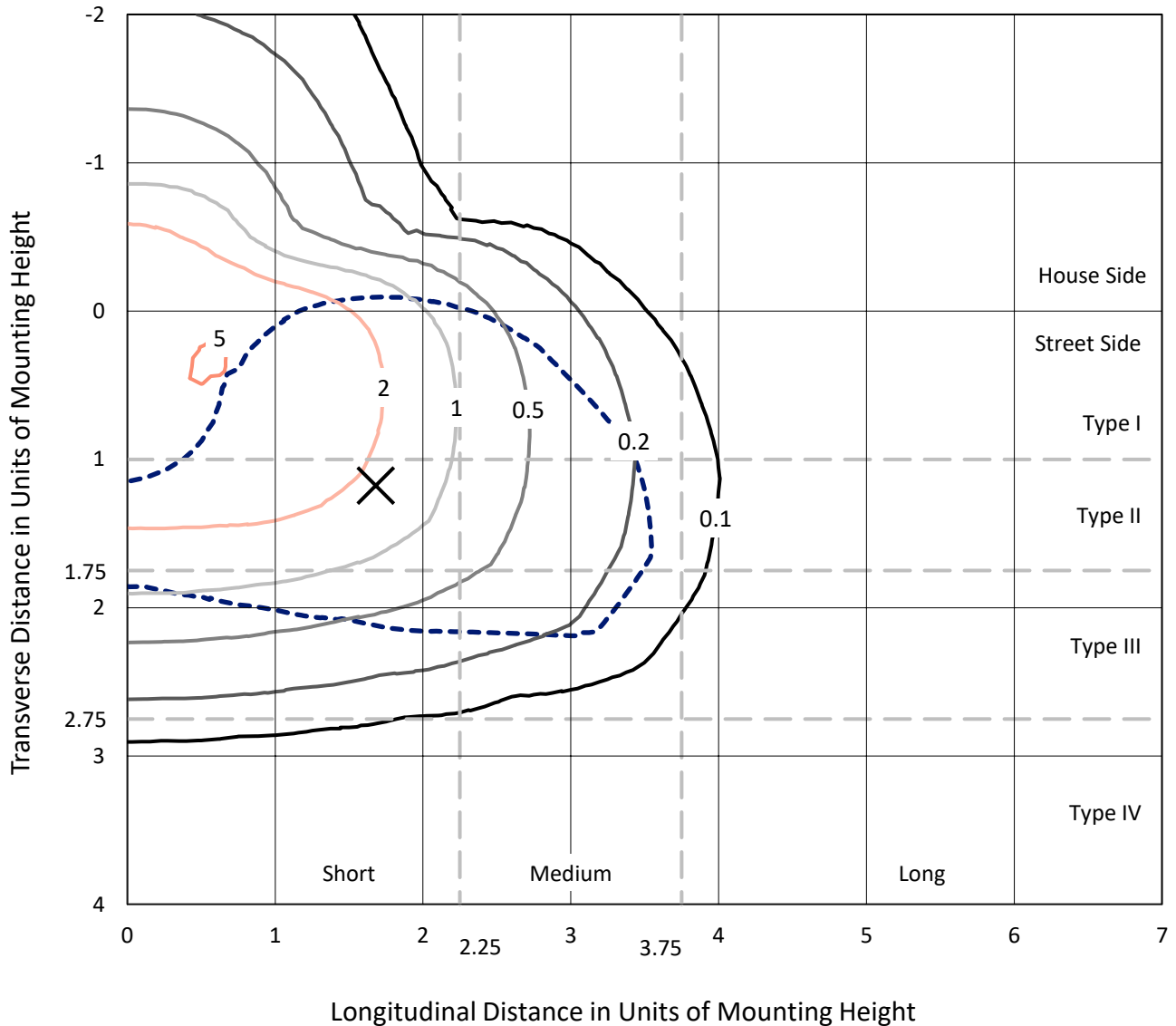
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

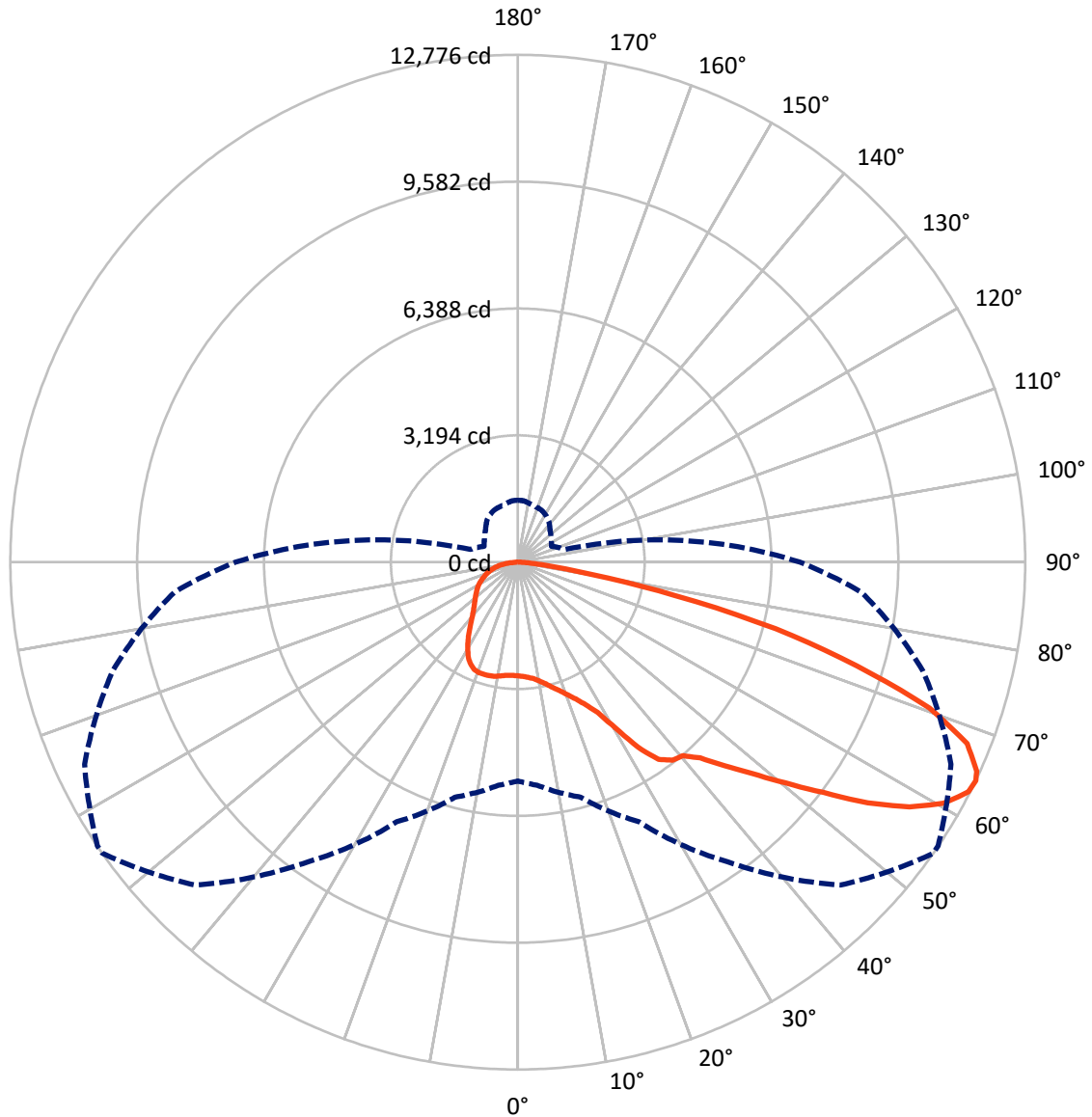
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5182.2	0.0	5182.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	16150.8	0.0	16150.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	21333.0	0.0	21333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	1.3
10°-20°	878.5	4.1
20°-30°	1564.0	7.3
30°-40°	2406.3	11.3
40°-50°	3411.2	16.0
50°-60°	4937.6	23.1
60°-70°	5109.9	24.0
70°-80°	2393.0	11.2
80°-90°	354.3	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°	21333.0	100.0
0°-180°	21333.0	100.0

Coefficient of Utilization



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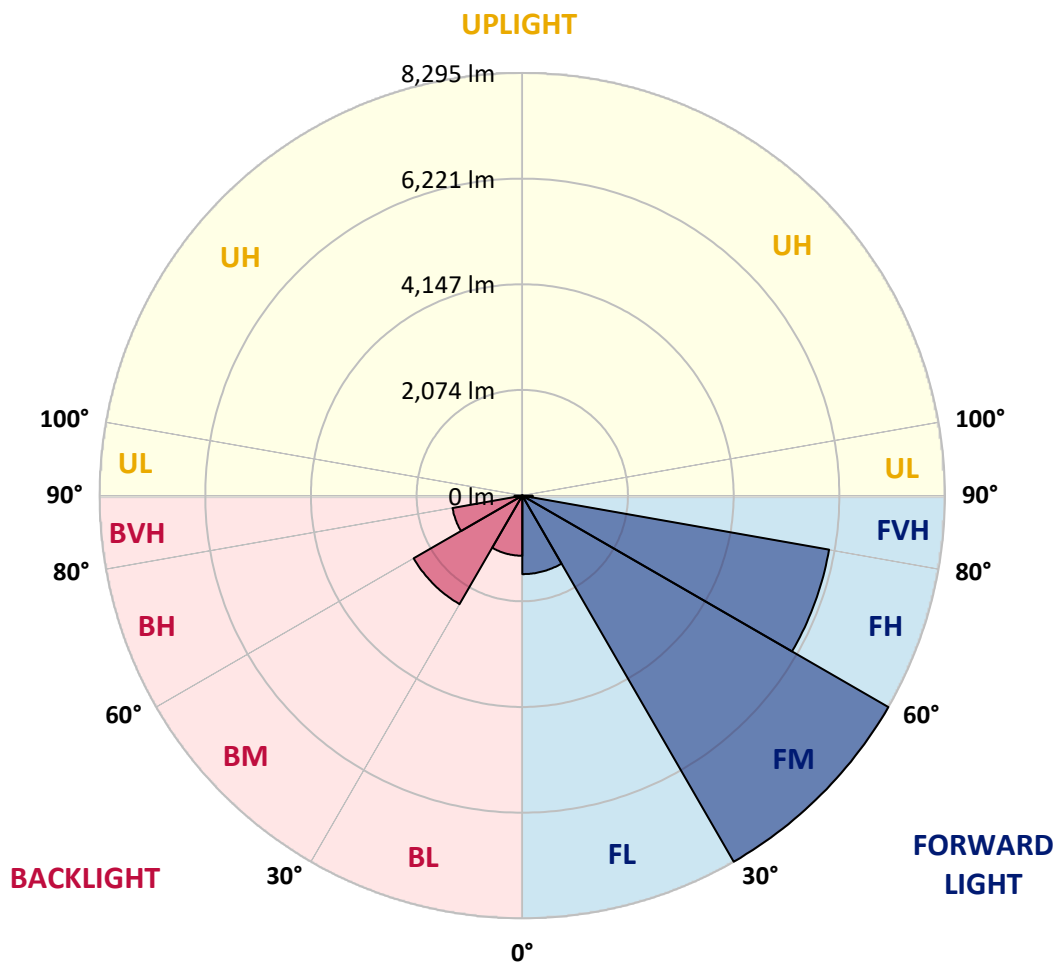
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1540.6	7.2			
FM	(30°-60°)	8294.9	38.9			
FH	(60°-80°)	6112.5	28.7			G3/7500
FVH	(80°-90°)	202.8	1.0			G2/225
BL	(0°-30°)	1180.3	5.5	B3/2500		
BM	(30°-60°)	2460.2	11.5	B2/2500		
BH	(60°-80°)	1390.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	151.4	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°	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2
2.5°	2894.4	2893.2	2896.7	2893.2	2895.5	2887.2	2883.6	2886.0	2882.5	2876.5	2865.8
5°	2930.0	2928.8	2930.0	2925.3	2927.6	2922.9	2914.6	2916.9	2911.0	2897.9	2882.5
7.5°	2990.7	2985.9	2985.9	2984.7	2980.0	2972.8	2966.9	2964.5	2958.6	2941.9	2918.1
10°	3069.2	3069.2	3070.3	3060.8	3066.8	3053.7	3047.7	3046.6	3026.3	3004.9	2971.6
12.5°	3172.6	3178.6	3175.0	3170.2	3167.9	3163.1	3142.9	3147.6	3125.0	3088.2	3047.7
15°	3301.0	3310.5	3304.6	3302.2	3296.3	3278.4	3270.1	3266.6	3236.8	3183.3	3129.8
17.5°	3471.1	3459.2	3454.4	3448.5	3423.5	3410.4	3396.2	3393.8	3367.6	3304.6	3221.4
20°	3619.7	3636.4	3626.9	3620.9	3595.9	3571.0	3560.3	3556.7	3534.1	3465.1	3332.0
22.5°	3796.9	3800.5	3804.0	3789.8	3777.9	3758.9	3739.8	3733.9	3725.6	3654.2	3491.3
25°	3986.0	4000.2	3988.4	3974.1	3959.8	3958.6	3976.5	3974.1	3970.5	3901.5	3703.0
27.5°	4294.0	4307.0	4310.6	4295.2	4240.5	4245.2	4285.6	4298.7	4353.4	4239.3	3975.3
30°	4467.6	4480.7	4510.4	4568.7	4655.5	4731.6	4829.1	4858.8	4911.1	4695.9	4298.7
32.5°	4574.6	4579.4	4632.9	4741.1	5001.5	5285.7	5550.9	5561.6	5594.9	5292.8	4594.8
35°	4743.5	4747.0	4789.8	4908.7	5214.4	5687.6	6097.9	6111.0	6083.6	5478.3	4732.8
37.5°	4951.6	4961.1	4988.4	5087.1	5452.2	6024.2	6325.0	6315.5	6072.9	5625.8	4976.5
40°	5254.8	5254.8	5222.7	5355.9	5703.1	6216.8	6404.7	6388.0	6323.8	6052.7	5347.5
42.5°	5522.3	5517.6	5593.7	5684.1	6017.0	6514.1	6738.8	6766.2	6872.0	6589.0	5769.7
45°	5870.8	5892.2	5935.0	6099.1	6550.9	7021.8	7312.0	7338.1	7488.0	7220.4	6263.2
47.5°	6222.7	6229.9	6364.2	6583.0	7212.1	7710.3	7948.2	7991.0	8127.7	7958.9	6794.7
50°	6472.5	6540.2	6755.5	7100.3	7893.5	8549.9	8735.4	8786.5	9027.9	8762.7	7414.2
52.5°	6736.4	6803.0	7065.8	7591.4	8675.9	9408.4	9636.7	9671.2	9922.1	9576.1	8048.1
55°	6962.4	7024.2	7322.7	8026.7	9299.0	10284.8	10698.6	10658.2	10778.3	10202.8	8536.8
57.5°	6999.2	7049.2	7425.0	8304.9	9767.5	11036.3	11629.7	11653.5	11514.4	10671.3	8939.9
60°	6713.8	6816.1	7247.8	8275.2	9978.0	11559.6	12324.2	12340.8	11946.0	10911.5	9100.4
62.5°	6208.5	6197.8	6719.8	7797.1	9683.1	11678.5	12733.2	12715.4	12114.9	10796.1	8944.7
64°	5510.4	5638.9	6126.4	7209.7	9207.5	11495.4	12776.1	12766.5	12034.0	10555.9	8679.5
65°	5084.7	5077.6	5559.2	6729.3	8734.2	11219.5	12699.9	12686.9	11865.2	10340.7	8473.8
67.5°	3670.9	3687.5	4163.2	5192.9	7100.3	10140.9	12204.1	12155.3	11199.3	9627.2	7691.3
70°	2223.7	2233.2	2606.6	3444.9	5096.6	8197.9	11000.7	11003.1	10180.2	8561.8	6546.2
72.5°	1171.3	1196.3	1346.1	1956.1	3095.3	5751.8	8924.4	9136.1	8740.1	7307.2	5171.5
75°	651.6	655.2	761.0	964.4	1579.2	3219.0	6707.9	6768.5	6919.6	5881.5	3824.3
77.5°	497.1	504.2	537.5	623.1	859.7	1492.4	4059.7	4364.1	4876.6	4146.5	2182.1
80°	403.1	410.3	438.8	489.9	572.0	707.5	1886.0	2050.1	2610.1	1840.8	851.4
82.5°	313.9	309.2	346.0	379.3	416.2	418.6	774.1	856.2	1063.1	792.0	368.6
85°	233.1	233.1	262.8	255.7	268.7	245.0	341.3	377.0	425.7	336.5	171.2
87.5°	92.8	102.3	172.4	154.6	120.1	96.3	126.0	133.2	147.5	132.0	71.3
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°	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2	2862.2
2.5°	2867.0	2870.6	2862.2	2856.3	2853.9	2850.4	2846.8	2848.0	2852.7	2857.5	2856.3
5°	2881.3	2882.5	2868.2	2861.1	2856.3	2851.5	2851.5	2855.1	2864.6	2871.8	2871.8
7.5°	2916.9	2916.9	2896.7	2883.6	2876.5	2868.2	2865.8	2867.0	2874.1	2883.6	2884.8
10°	2972.8	2968.1	2941.9	2921.7	2908.6	2888.4	2870.6	2861.1	2864.6	2870.6	2870.6
12.5°	3040.6	3027.5	2994.2	2966.9	2934.8	2896.7	2859.9	2840.8	2839.7	2845.6	2843.2
15°	3113.2	3098.9	3052.5	3002.6	2946.7	2890.8	2846.8	2819.4	2798.0	2792.1	2805.2
17.5°	3197.6	3167.9	3103.6	3034.7	2951.4	2878.9	2809.9	2754.0	2716.0	2705.3	2708.8
20°	3299.8	3260.6	3173.8	3065.6	2947.9	2836.1	2729.1	2654.1	2592.3	2573.3	2575.7
22.5°	3441.4	3373.6	3246.3	3081.0	2918.1	2755.2	2606.6	2509.1	2434.2	2404.4	2422.3
25°	3601.9	3528.2	3315.3	3077.5	2840.8	2625.6	2461.5	2334.3	2266.5	2222.5	2232.0
27.5°	3823.1	3692.3	3389.0	3045.4	2730.3	2467.5	2277.2	2157.1	2095.3	2072.7	2083.4
30°	4106.1	3905.1	3468.7	2958.6	2555.4	2267.7	2091.7	2013.2	1976.3	1947.8	1957.3
32.5°	4310.6	4054.9	3486.5	2812.3	2366.4	2085.7	1965.6	1907.4	1866.9	1839.6	1845.5
35°	4456.9	4182.2	3478.2	2632.7	2169.0	1935.9	1865.8	1818.2	1752.8	1693.3	1682.6
37.5°	4653.1	4341.5	3417.6	2436.5	1974.0	1834.8	1784.9	1696.9	1603.0	1523.3	1519.7
40°	4953.9	4528.2	3288.0	2205.8	1807.5	1759.9	1699.3	1585.1	1484.0	1419.8	1415.1
42.5°	5264.3	4700.6	3112.0	1963.3	1670.7	1681.4	1607.7	1494.7	1432.9	1391.3	1386.5
45°	5643.6	4887.3	2921.7	1752.8	1569.7	1607.7	1528.0	1462.6	1425.8	1398.4	1391.3
47.5°	6053.9	5078.8	2707.7	1563.7	1484.0	1539.9	1494.7	1465.0	1444.8	1425.8	1417.4
50°	6496.2	5292.8	2506.7	1411.5	1406.7	1469.8	1491.2	1480.5	1468.6	1462.6	1455.5
52.5°	6981.4	5511.6	2337.8	1304.5	1339.0	1419.8	1492.4	1500.7	1500.7	1497.1	1492.4
55°	7309.6	5663.8	2166.6	1217.7	1270.0	1379.4	1490.0	1522.1	1534.0	1529.2	1524.5
57.5°	7552.2	5747.1	1951.4	1142.8	1211.7	1340.2	1476.9	1524.5	1536.4	1542.3	1539.9
60°	7602.1	5669.8	1669.5	1064.3	1148.7	1283.1	1429.3	1488.8	1504.3	1541.1	1544.7
62.5°	7377.4	5432.0	1388.9	987.0	1071.4	1196.3	1365.1	1448.4	1479.3	1536.4	1542.3
64°	7101.5	5165.6	1233.1	938.2	1021.5	1147.5	1333.0	1437.7	1478.1	1554.2	1559.0
65°	6899.4	4971.8	1135.6	907.3	989.4	1115.4	1315.2	1441.2	1488.8	1581.5	1588.7
67.5°	6155.0	4304.7	939.4	834.8	913.3	1060.7	1318.7	1471.0	1486.4	1592.2	1591.1
70°	5093.1	3427.1	787.2	768.2	839.5	1016.7	1304.5	1423.4	1424.6	1494.7	1478.1
72.5°	3813.6	2532.9	682.6	699.2	757.5	912.1	1231.9	1359.2	1339.0	1348.5	1331.8
75°	2619.7	1675.5	587.4	625.5	671.9	806.2	1129.7	1234.3	1202.2	1190.3	1178.4
77.5°	1398.4	926.3	488.7	552.9	583.9	696.8	985.8	1086.9	1053.6	1007.2	991.7
80°	566.0	436.4	393.6	457.8	475.7	561.3	820.5	883.5	858.6	777.7	751.5
82.5°	284.2	261.6	309.2	360.3	361.5	400.7	610.0	669.5	613.6	514.9	492.3
85°	148.6	153.4	212.9	253.3	223.6	216.4	366.3	405.5	372.2	323.4	291.3
87.5°	53.5	61.8	111.8	110.6	78.5	41.6	80.9	39.2	21.4	13.1	16.6
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)