

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: P455952

Luminaire Tested: **GLAN-SA7A-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25796 lumens
Efficiency: N/A
Efficacy: 120.0 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

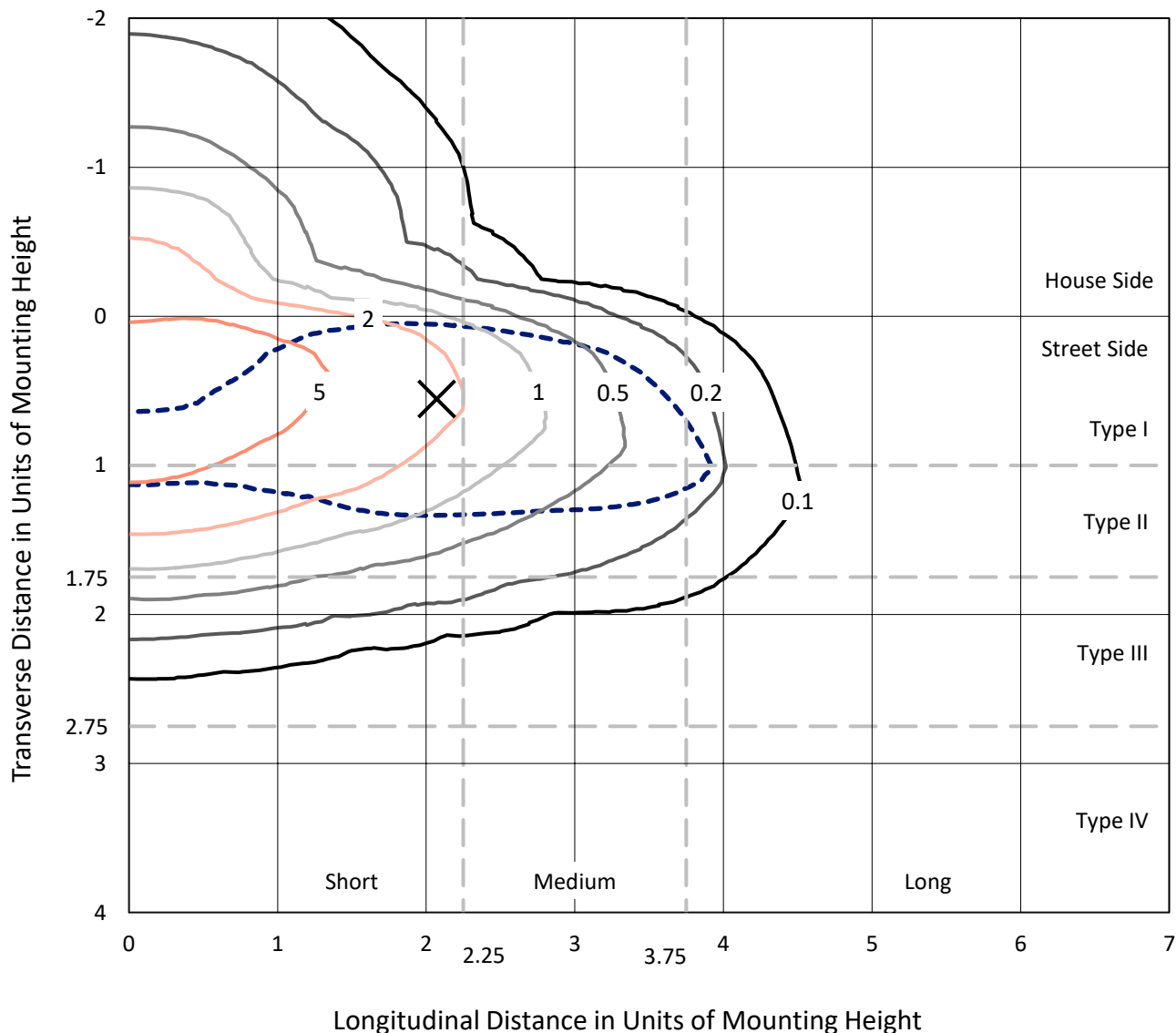
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

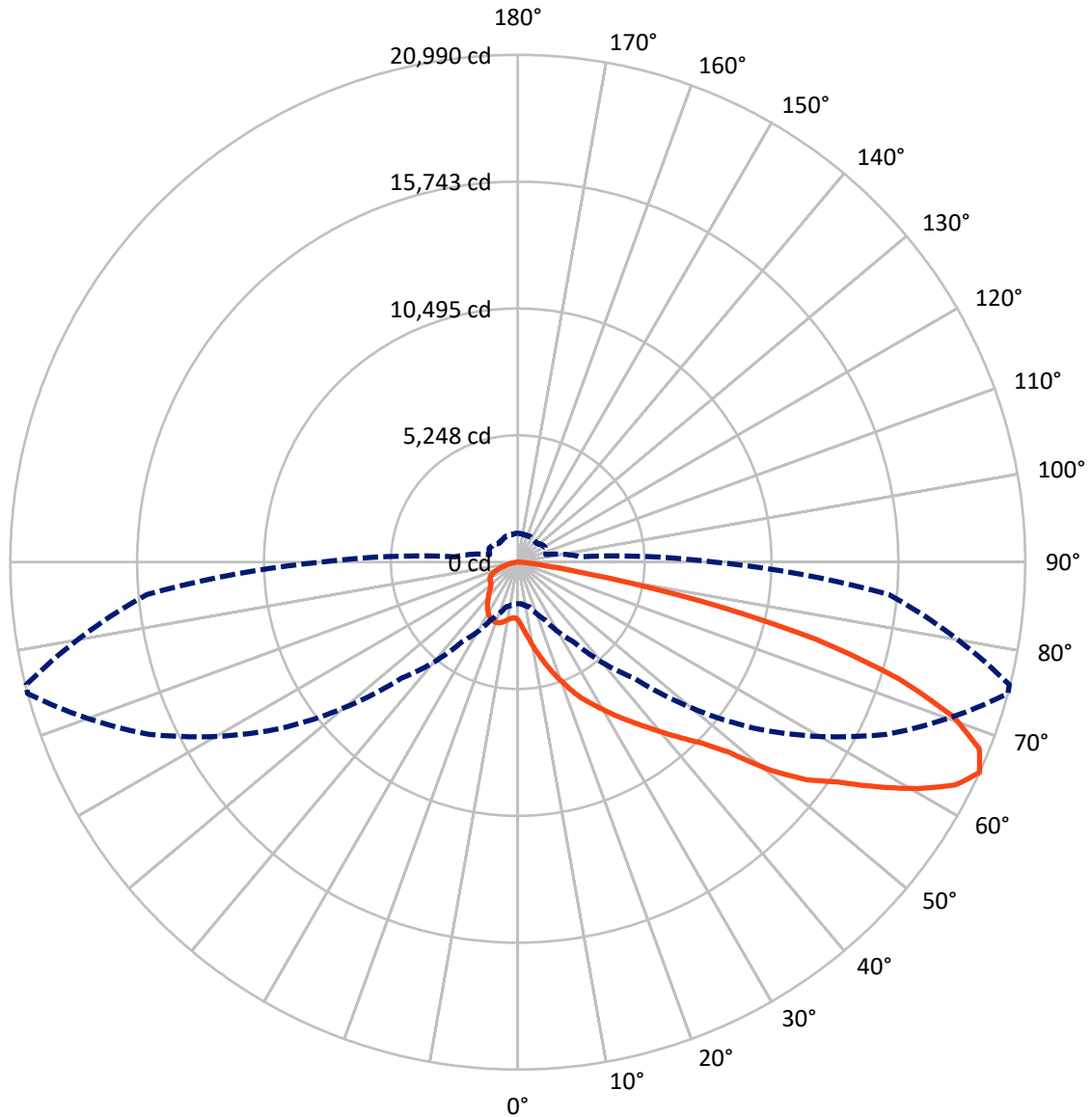
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4336.6	0.0	4336.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	21459.4	0.0	21459.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	25796.0	0.0	25796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.1
10°-20°	1140.6	4.4
20°-30°	2203.2	8.5
30°-40°	3578.7	13.9
40°-50°	4922.9	19.1
50°-60°	5812.2	22.5
60°-70°	5092.5	19.7
70°-80°	2431.2	9.4
80°-90°	323.5	1.3
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°	25796.0	100.0
0°-180°	25796.0	100.0

Coefficient of Utilization



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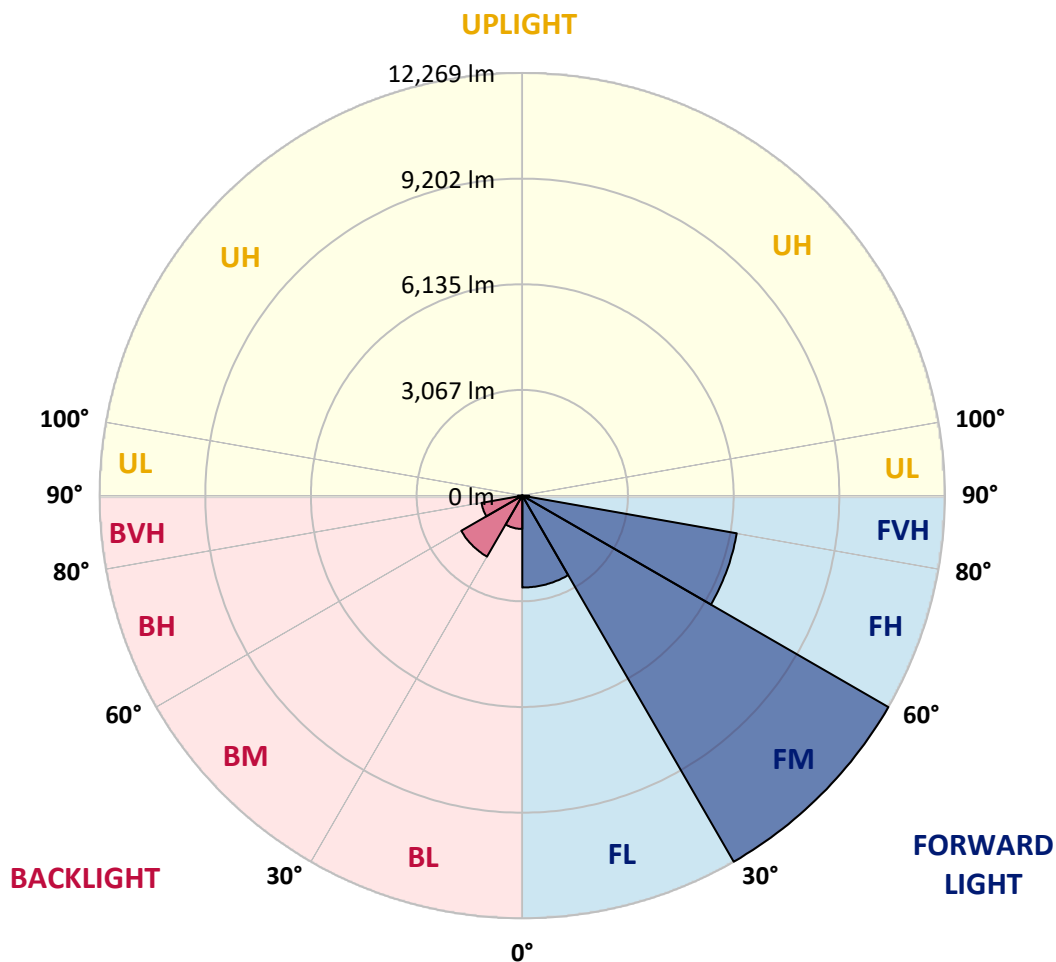
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2666.9	10.3			
FM	(30°-60°)	12269.1	47.6			
FH	(60°-80°)	6321.2	24.5			G3/7500
FVH	(80°-90°)	202.2	0.8			G2/225
BL	(0°-30°)	968.1	3.8	B2/1000		
BM	(30°-60°)	2044.7	7.9	B2/2500		
BH	(60°-80°)	1202.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	121.3	0.5			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°	65°	75°	76°	85°
0°	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8
2.5°	3184.5	3163.5	3141.1	3079.6	3013.8	2939.7	2833.3	2731.2	2595.5	2591.3	2490.5
5°	4067.4	4053.4	3954.0	3896.7	3744.2	3541.3	3369.2	3102.0	2854.3	2824.9	2629.0
7.5°	4878.9	4824.3	4786.6	4683.0	4531.9	4271.7	3938.7	3577.7	3163.5	3124.3	2799.7
10°	5490.3	5484.7	5465.1	5375.6	5262.3	5003.4	4634.0	4116.4	3555.3	3478.3	3006.8
12.5°	5947.9	5952.1	5949.3	5947.9	5866.7	5647.0	5246.9	4701.2	3951.2	3896.7	3246.1
15°	6248.7	6290.7	6307.4	6377.4	6384.4	6237.5	5893.3	5266.5	4397.6	4316.4	3503.5
17.5°	6447.4	6468.4	6546.7	6665.6	6762.2	6735.6	6429.2	5789.8	4853.7	4718.0	3770.8
20°	6637.7	6674.0	6734.2	6896.5	7067.2	7145.5	6930.1	6325.6	5305.6	5218.9	4066.0
22.5°	7033.6	7085.4	7106.4	7188.9	7334.4	7473.0	7375.0	6839.1	5800.9	5683.4	4379.4
25°	7703.8	7758.4	7699.6	7680.0	7727.6	7796.2	7775.2	7323.2	6268.3	6100.4	4676.0
27.5°	8576.9	8583.9	8469.2	8360.0	8242.5	8207.5	8143.2	7752.8	6674.0	6534.1	4974.0
30°	9514.3	9480.8	9290.5	9093.2	8894.5	8698.6	8513.9	8166.9	7126.0	6965.1	5266.5
32.5°	10384.6	10366.4	10155.2	9848.7	9512.9	9328.3	8954.7	8585.3	7610.1	7454.8	5567.3
35°	11036.6	11063.2	10831.0	10496.6	10130.0	9966.3	9494.8	9024.6	8111.0	7941.7	5894.7
37.5°	11499.8	11485.8	11280.1	10990.5	10668.7	10525.9	10125.8	9504.5	8649.7	8487.4	6252.9
40°	11664.9	11656.5	11504.0	11292.7	11088.4	11038.0	10786.2	10022.2	9266.7	9076.4	6683.8
42.5°	11559.9	11578.1	11477.4	11420.0	11382.2	11418.6	11442.4	10700.8	9939.7	9764.8	7151.1
45°	11238.1	11228.3	11214.3	11308.1	11520.7	11760.0	12091.6	11341.7	10671.5	10531.5	7778.0
47.5°	10663.1	10733.0	10768.0	11026.8	11491.4	12058.0	12838.8	12200.7	11733.4	11611.7	8733.6
50°	9858.5	9914.5	10121.6	10581.9	11274.5	12170.0	13569.1	13605.5	13504.8	13276.7	9771.8
52.5°	8602.1	8688.8	9115.6	9959.3	10829.6	12123.8	14011.3	14810.2	14943.1	14772.4	10794.6
55°	7195.9	7317.6	7768.2	8874.9	10216.7	11871.9	14316.3	15508.4	16038.7	15880.6	11779.6
57.5°	5819.1	5947.9	6411.0	7482.7	9147.8	11315.1	14516.4	16286.3	17530.2	17324.5	13005.3
60°	4361.2	4495.5	4892.9	5996.8	7625.5	10226.5	14380.6	16960.7	19020.3	18932.1	14232.3
62.5°	2813.7	2962.0	3307.6	4221.3	5861.1	8739.2	13654.5	17332.9	20310.3	20204.0	15127.8
65°	1714.0	1730.8	1921.1	2620.6	4011.4	6766.4	11993.7	16839.0	20990.3	20958.1	15400.6
67.5°	1108.1	1134.7	1221.5	1569.9	2405.2	4699.8	9589.9	15209.0	20592.9	20581.8	14836.8
70°	936.0	944.4	983.6	1059.2	1397.8	2850.1	6734.2	12610.7	19083.2	19083.2	13481.0
72.5°	836.7	847.9	861.9	885.7	997.6	1614.6	4018.4	9816.6	16476.6	16585.7	11474.6
75°	759.7	756.9	765.3	769.5	850.7	1055.0	2077.8	7260.3	12746.4	12528.1	8309.7
77.5°	650.6	654.8	650.6	668.8	751.4	803.1	1055.0	4871.9	7724.8	7442.2	4170.9
80°	534.5	541.5	548.5	559.7	642.2	610.0	633.8	2220.5	2857.1	2796.9	1288.6
82.5°	401.6	411.4	422.5	449.1	505.1	403.0	400.2	948.6	1031.2	944.4	474.3
85°	162.3	191.7	289.6	316.2	317.6	221.1	246.3	396.0	421.1	411.4	186.1
87.5°	37.8	44.8	93.7	141.3	130.1	82.6	90.9	128.7	146.9	135.7	63.0
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°	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8	2396.8
2.5°	2444.3	2395.4	2311.4	2247.1	2200.9	2160.3	2135.1	2119.7	2114.1	2112.7	2114.1
5°	2526.9	2440.1	2307.2	2223.3	2177.1	2150.5	2135.1	2133.7	2135.1	2136.5	2132.3
7.5°	2640.2	2515.7	2342.2	2263.9	2228.9	2209.3	2202.3	2199.5	2200.9	2199.5	2199.5
10°	2791.3	2620.6	2410.8	2329.6	2300.2	2277.8	2266.7	2259.7	2254.1	2248.5	2245.7
12.5°	2957.8	2736.8	2484.9	2406.6	2364.6	2329.6	2304.4	2286.2	2273.6	2261.1	2258.3
15°	3143.9	2859.9	2567.5	2458.3	2398.2	2346.4	2303.0	2273.6	2251.3	2233.1	2231.7
17.5°	3321.6	2976.0	2623.4	2482.1	2394.0	2321.2	2263.9	2223.3	2195.3	2171.5	2168.7
20°	3511.9	3086.6	2648.6	2466.7	2352.0	2263.9	2188.3	2139.3	2107.1	2080.6	2076.4
22.5°	3703.6	3180.3	2645.8	2417.8	2279.2	2175.7	2096.0	2044.2	2006.4	1979.8	1970.0
25°	3886.9	3255.9	2610.8	2339.4	2178.5	2070.8	1989.6	1942.0	1908.5	1876.3	1876.3
27.5°	4052.0	3300.6	2545.1	2244.3	2075.0	1961.6	1897.3	1853.9	1823.1	1802.1	1789.5
30°	4214.3	3321.6	2455.5	2123.9	1965.8	1869.3	1817.5	1792.3	1764.4	1740.6	1737.8
32.5°	4359.8	3317.4	2343.6	2006.4	1862.3	1793.7	1772.7	1753.2	1723.8	1690.2	1681.8
35°	4501.1	3289.4	2210.7	1877.7	1775.5	1749.0	1754.6	1726.6	1673.4	1631.4	1624.4
37.5°	4655.0	3239.1	2065.2	1772.7	1702.8	1728.0	1742.0	1680.4	1593.7	1527.9	1512.5
40°	4832.7	3181.7	1914.1	1667.8	1645.4	1708.4	1708.4	1595.1	1476.1	1435.5	1424.4
42.5°	5041.2	3134.1	1788.1	1579.7	1597.8	1660.8	1653.8	1481.7	1432.7	1411.8	1406.2
45°	5371.4	3117.3	1658.0	1502.7	1558.7	1604.8	1547.5	1442.5	1414.6	1397.8	1392.2
47.5°	5893.3	3136.9	1543.3	1445.3	1513.9	1548.9	1428.6	1416.0	1396.4	1372.6	1369.8
50°	6377.4	3118.7	1462.1	1413.2	1474.7	1481.7	1379.6	1383.8	1372.6	1346.0	1340.4
52.5°	6773.4	3061.4	1410.4	1396.4	1441.1	1364.2	1333.4	1348.8	1344.6	1311.0	1305.4
55°	7208.5	3026.4	1385.2	1396.4	1418.8	1262.0	1290.0	1312.4	1306.8	1283.0	1281.6
57.5°	7736.0	3033.4	1367.0	1400.6	1396.4	1210.3	1246.7	1273.2	1271.8	1264.8	1264.8
60°	8276.1	3036.2	1339.0	1399.2	1369.8	1169.7	1201.9	1239.7	1242.5	1246.7	1246.7
62.5°	8455.2	2914.5	1284.4	1374.0	1311.0	1130.5	1159.9	1211.7	1208.9	1220.1	1221.5
65°	8120.8	2577.3	1203.3	1316.6	1235.5	1102.5	1127.7	1175.3	1159.9	1189.3	1194.9
67.5°	7391.8	2132.3	1077.4	1213.1	1151.5	1073.2	1106.7	1124.9	1096.9	1154.3	1155.7
70°	6388.6	1665.0	917.9	1066.2	1056.4	1042.4	1090.0	1062.0	1022.8	1092.7	1078.8
72.5°	5342.0	1271.8	733.2	871.7	929.0	996.2	1060.6	980.8	926.2	947.2	922.1
75°	4012.8	940.2	589.0	682.8	773.7	930.4	1034.0	882.9	798.9	779.3	773.7
77.5°	2045.6	614.2	440.7	510.7	580.7	840.9	997.6	768.1	661.8	631.0	617.0
80°	730.4	382.0	310.6	352.6	391.8	723.4	871.7	635.2	513.5	507.9	513.5
82.5°	338.6	246.3	208.5	230.9	232.3	482.7	664.6	474.3	390.4	593.2	500.9
85°	145.5	123.1	117.5	114.7	106.3	215.5	373.6	254.6	397.4	177.7	163.7
87.5°	43.4	49.0	43.4	32.2	23.8	23.8	37.8	14.0	9.8	7.0	7.0
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)