

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: P649880

Luminaire Tested: **GLAN-SA4A-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14246 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

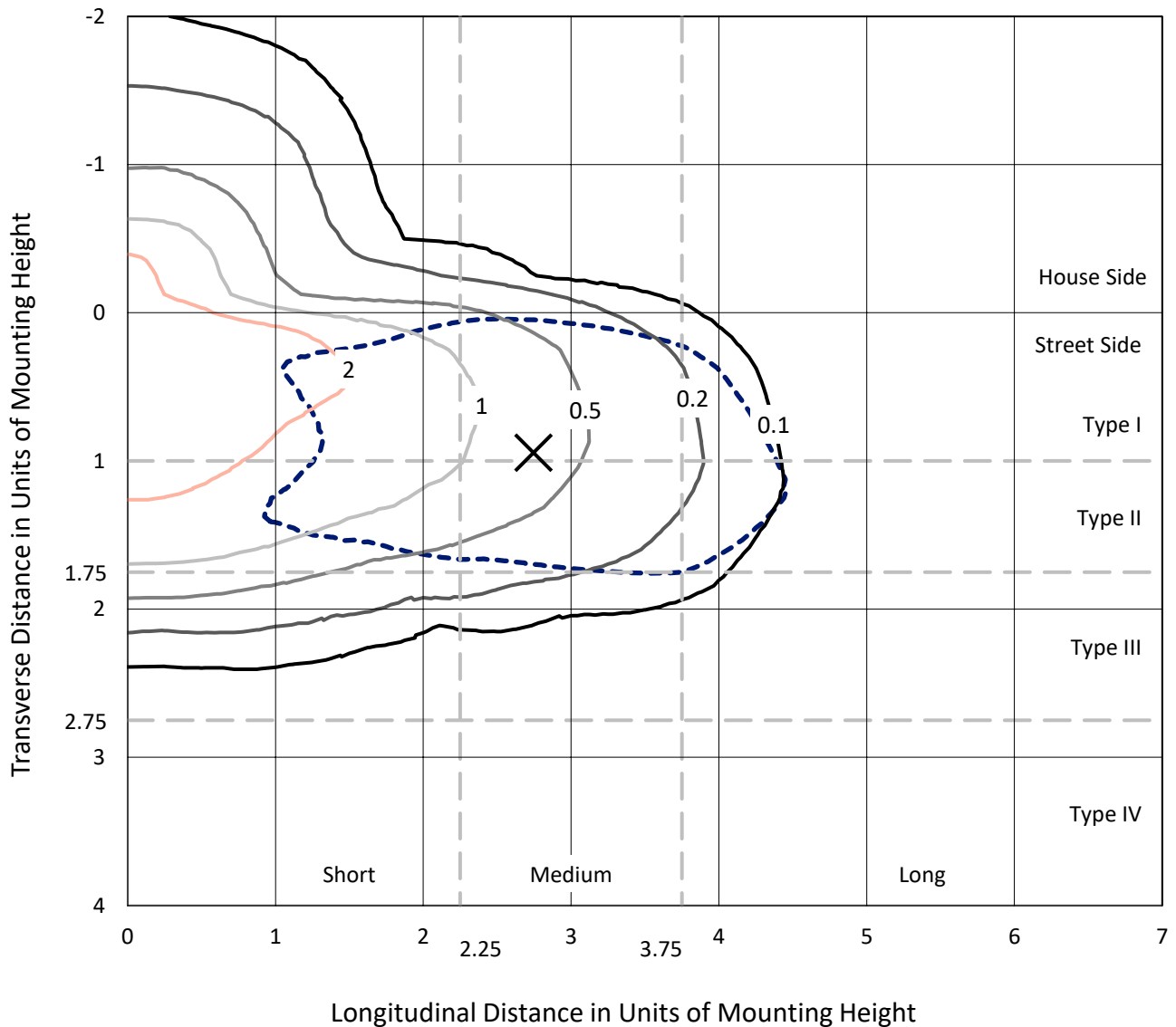
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

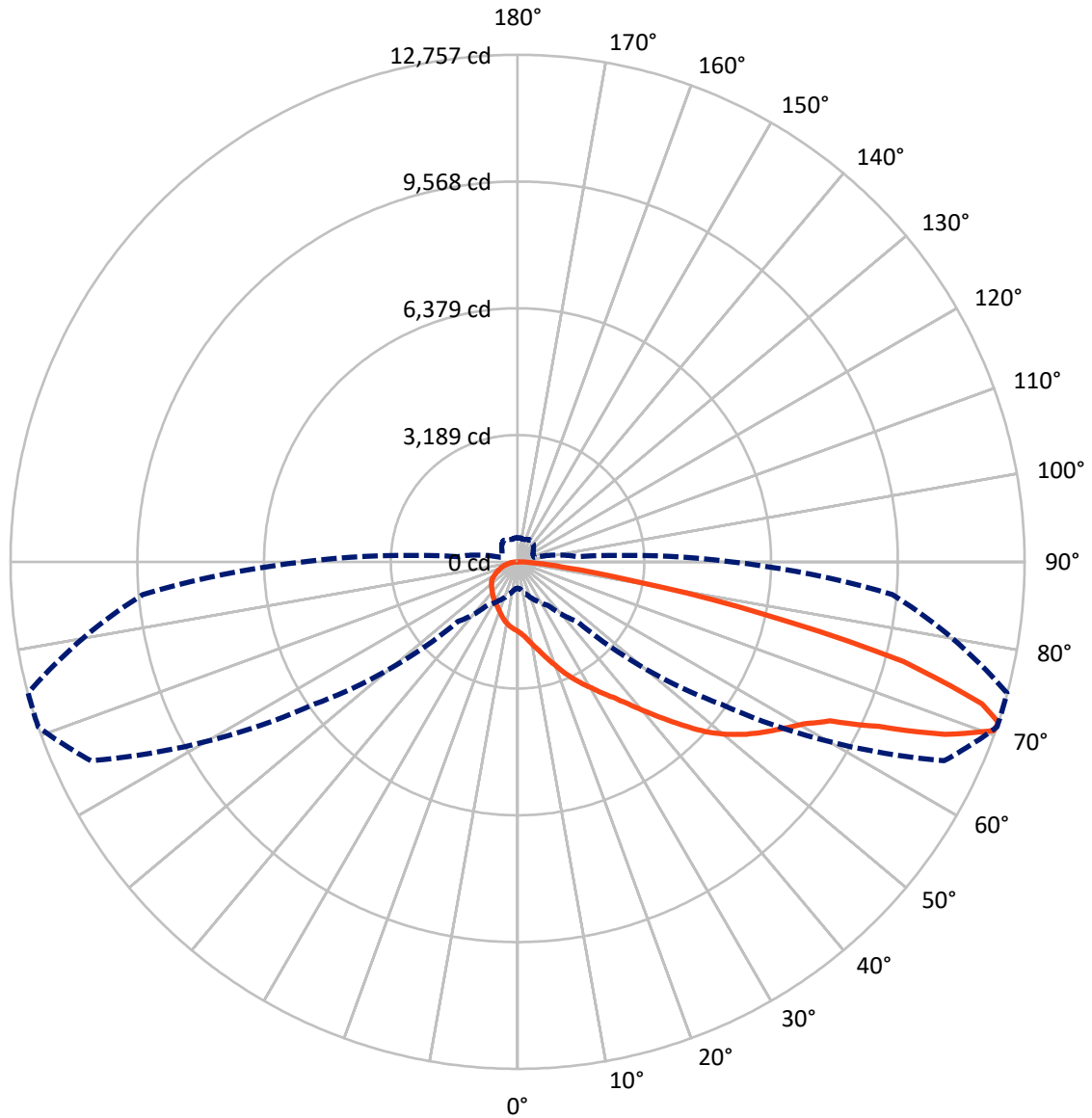
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.1	0.0	2562.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11683.8	0.0	11683.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	14246.0	0.0	14246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	1.2
10°-20°	570.4	4.0
20°-30°	996.7	7.0
30°-40°	1482.5	10.4
40°-50°	2184.3	15.3
50°-60°	3058.1	21.5
60°-70°	3420.3	24.0
70°-80°	2089.3	14.7
80°-90°	268.8	1.9
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°	14246.0	100.0
0°-180°	14246.0	100.0

Coefficient of Utilization

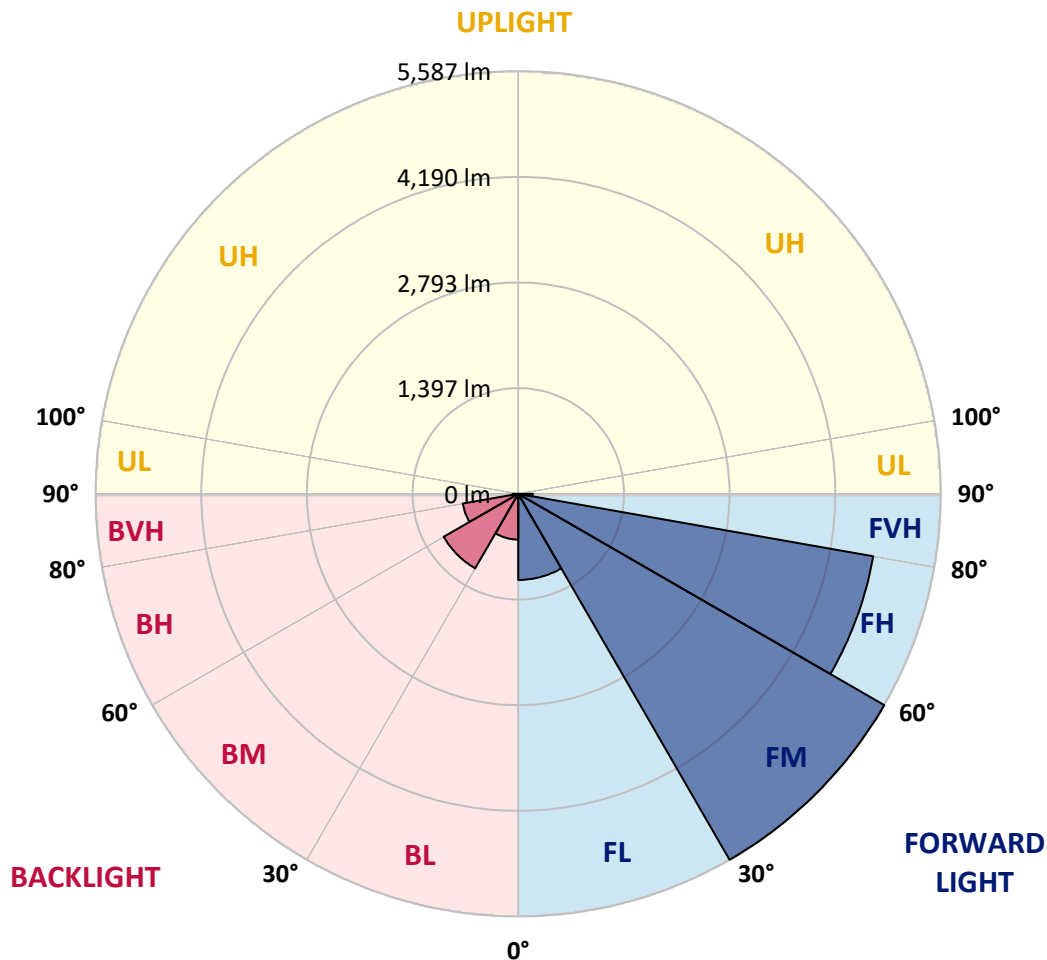


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.2	8.0			
FM (30°-60°)	5587.0	39.2			
FH (60°-80°)	4765.2	33.4			G2/5000
FVH (80°-90°)	193.4	1.4			G2/225
BL (0°-30°)	604.4	4.2	B2/1000		
BM (30°-60°)	1137.9	8.0	B2/2500		
BH (60°-80°)	744.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	75.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4
2.5°	1941.0	1931.6	1932.4	1919.1	1901.9	1883.1	1856.5	1833.0	1814.2	1803.2	1771.1
5°	2150.8	2141.4	2129.7	2100.7	2088.2	2042.0	1983.3	1930.0	1889.4	1866.7	1802.5
7.5°	2320.7	2318.4	2315.3	2298.8	2266.7	2202.5	2152.4	2060.0	1999.7	1956.6	1847.1
10°	2425.7	2429.6	2431.9	2435.1	2421.7	2388.1	2319.2	2202.5	2125.8	2071.0	1905.0
12.5°	2478.9	2482.8	2496.1	2525.1	2543.1	2539.2	2482.8	2368.5	2262.8	2190.8	1966.8
15°	2511.8	2518.0	2541.5	2579.9	2640.2	2678.6	2651.2	2545.5	2429.6	2344.2	2040.4
17.5°	2547.8	2554.9	2580.7	2635.5	2714.6	2797.6	2827.3	2736.5	2610.4	2508.7	2122.6
20°	2568.2	2577.6	2614.4	2686.4	2778.8	2899.4	2998.0	2950.3	2812.5	2699.7	2217.4
22.5°	2601.0	2608.9	2640.2	2716.9	2827.3	2978.5	3168.7	3158.5	3037.2	2891.5	2321.5
25°	2690.3	2702.8	2718.5	2764.7	2871.2	3059.1	3310.4	3380.9	3254.9	3092.0	2417.0
27.5°	2858.7	2868.8	2868.1	2874.3	2934.6	3128.8	3433.4	3600.9	3471.0	3294.8	2509.4
30°	3050.5	3054.4	3057.5	3043.4	3056.8	3200.0	3546.1	3818.6	3688.6	3503.1	2590.1
32.5°	3283.8	3291.7	3265.0	3229.0	3218.1	3305.7	3639.3	4036.3	3946.2	3714.5	2670.0
35°	3559.4	3579.8	3525.8	3462.3	3417.7	3457.6	3764.6	4258.7	4210.1	3984.6	2775.7
37.5°	3874.2	3899.3	3849.1	3724.7	3661.2	3672.2	3928.2	4533.5	4543.7	4292.3	2933.0
40°	4131.8	4164.7	4166.3	3990.1	3893.8	3906.3	4135.7	4829.5	4946.1	4672.9	3118.6
42.5°	4301.7	4333.8	4367.5	4264.1	4163.1	4234.4	4377.7	5150.5	5398.7	5134.8	3377.8
45°	4488.1	4517.0	4535.8	4488.9	4432.5	4617.3	4669.7	5491.9	5881.0	5650.8	3661.2
47.5°	4704.2	4736.3	4754.3	4709.7	4688.5	4953.2	4984.5	5810.5	6396.2	6151.9	3974.4
50°	4992.3	5016.6	5007.2	4979.0	4974.3	5210.8	5286.7	6108.8	6821.3	6691.4	4299.4
52.5°	5350.9	5379.9	5390.1	5350.2	5332.2	5394.8	5530.3	6380.5	7208.1	7154.9	4646.2
55°	5567.8	5614.0	5769.1	5831.6	5874.7	5632.8	5792.5	6680.4	7555.0	7643.5	5019.0
57.5°	5289.9	5349.4	5696.2	6009.4	6414.2	6227.8	6164.4	6993.6	7901.9	8117.2	5465.3
60°	4611.8	4625.1	5072.2	5649.3	6463.5	6992.8	6940.4	7491.6	8277.7	8594.8	6053.2
62.5°	3199.3	3227.4	3756.0	4676.8	5854.3	7268.4	8260.5	8351.3	8816.4	9309.7	6915.3
65°	1649.8	1613.0	2094.4	2939.3	4413.7	6613.8	9330.1	9932.1	9984.6	10427.8	8128.9
67.5°	1015.6	1032.0	1257.5	1716.3	2609.7	4806.8	9218.1	11863.8	11587.4	11800.4	9255.7
70°	762.6	783.0	938.0	1174.5	1591.1	2748.3	7413.3	12332.0	12718.0	12663.2	9598.6
71°	663.2	684.3	845.6	1068.8	1336.6	2121.1	6245.8	11841.9	12757.2	12747.8	9469.4
72.5°	565.3	578.6	704.7	905.1	1126.7	1486.9	4692.4	10620.4	12213.0	12525.4	9008.3
75°	444.0	454.1	510.5	690.6	887.1	913.0	2518.0	7962.2	10030.8	10625.9	7499.4
77.5°	361.7	368.8	397.8	512.9	684.3	646.8	1320.9	5182.6	6284.2	6883.2	4417.6
80°	287.4	295.2	312.4	347.7	512.9	461.2	630.3	2626.1	3035.6	3029.3	1763.3
82.5°	223.2	225.5	245.9	255.3	350.8	327.3	341.4	1111.9	1231.7	1272.4	636.6
85°	140.9	148.0	217.7	195.8	209.8	191.8	168.3	441.6	544.2	536.4	254.5
87.5°	43.1	45.4	73.6	83.0	93.2	83.8	61.9	130.0	158.9	172.3	63.4
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°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4
2.5°	1758.6	1750.0	1719.5	1694.4	1670.9	1645.1	1623.2	1616.9	1611.4	1609.1	1608.3
5°	1775.1	1749.2	1688.9	1639.6	1600.5	1564.4	1541.7	1531.5	1521.4	1521.4	1524.5
7.5°	1798.6	1751.6	1658.4	1584.8	1535.5	1501.8	1485.4	1483.8	1486.1	1488.5	1489.3
10°	1824.4	1750.0	1613.8	1522.2	1478.3	1462.6	1463.4	1476.7	1489.3	1498.7	1500.2
12.5°	1849.4	1740.6	1561.3	1463.4	1435.2	1438.4	1460.3	1490.0	1514.3	1527.6	1528.4
15°	1877.6	1725.7	1497.9	1407.8	1398.4	1422.7	1463.4	1508.8	1545.6	1567.6	1569.9
17.5°	1901.1	1700.7	1431.3	1353.8	1365.6	1410.2	1466.6	1525.3	1569.9	1597.3	1602.0
20°	1927.7	1668.6	1362.4	1302.1	1335.8	1396.1	1460.3	1523.7	1569.9	1596.5	1602.8
22.5°	1948.8	1623.2	1296.6	1259.8	1309.2	1378.9	1439.2	1490.0	1527.6	1541.7	1551.1
25°	1957.4	1566.0	1234.8	1225.4	1288.0	1350.7	1391.4	1420.4	1432.1	1430.5	1434.5
27.5°	1952.7	1500.2	1181.5	1198.0	1261.4	1306.8	1327.2	1324.8	1303.7	1284.1	1293.5
30°	1933.1	1421.9	1136.9	1169.8	1227.0	1252.0	1248.9	1218.3	1178.4	1141.6	1144.0
32.5°	1898.0	1337.4	1095.4	1137.7	1178.4	1189.4	1168.2	1128.3	1071.1	1023.4	1016.3
35°	1868.2	1256.7	1058.6	1100.9	1129.9	1124.4	1104.0	1052.4	1000.7	958.4	951.3
37.5°	1863.5	1187.8	1023.4	1059.4	1075.8	1068.0	1043.0	999.1	980.3	948.2	944.3
40°	1888.6	1139.3	987.4	1015.6	1023.4	1017.1	989.7	964.7	981.9	974.1	974.1
42.5°	1956.6	1113.4	955.3	971.7	978.0	982.7	963.1	941.9	963.1	927.1	915.3
45°	2064.7	1114.2	926.3	928.6	947.4	963.9	950.6	919.2	908.3	836.2	822.2
47.5°	2223.6	1140.8	902.8	887.9	921.6	949.0	930.2	884.8	836.2	788.5	779.9
50°	2409.2	1188.6	881.7	845.6	887.1	930.2	916.1	862.9	812.8	783.8	778.3
52.5°	2615.1	1248.9	855.8	798.7	844.9	921.6	919.2	859.7	790.8	771.3	766.6
55°	2869.6	1308.4	823.7	743.8	807.3	914.5	910.6	833.9	786.1	772.0	770.5
57.5°	3165.6	1394.5	777.5	688.3	764.2	885.6	877.0	818.2	770.5	760.3	759.5
60°	3642.4	1528.4	711.7	637.4	720.4	834.7	845.6	791.6	745.4	743.1	742.3
62.5°	4269.6	1716.3	643.6	584.9	669.5	768.9	800.2	755.6	718.8	730.5	732.1
65°	5135.6	1874.5	573.2	540.3	613.1	705.5	757.2	721.9	689.0	711.7	711.7
67.5°	5700.2	1877.6	509.0	494.1	555.9	652.2	711.7	682.0	650.7	689.0	690.6
70°	5582.7	1645.1	455.7	445.5	500.3	595.1	661.6	638.1	602.1	636.6	624.1
71°	5393.2	1515.9	434.6	426.7	478.4	567.7	638.1	618.6	582.6	605.3	598.2
72.5°	5091.0	1316.2	400.1	401.7	445.5	533.2	605.3	584.9	548.9	561.4	559.1
75°	4303.3	1149.4	342.2	349.2	382.9	474.5	539.5	523.8	487.0	487.0	484.7
77.5°	2690.3	803.4	284.2	288.1	324.9	406.4	463.5	450.2	415.0	403.2	400.1
80°	1003.8	415.0	222.4	227.1	249.8	320.2	383.7	371.1	335.1	321.8	309.3
82.5°	379.8	208.3	163.6	159.7	184.0	244.3	300.7	285.8	257.6	225.5	216.1
85°	143.3	103.4	100.2	97.1	108.1	144.9	186.4	183.2	153.5	130.8	128.4
87.5°	37.6	33.7	39.2	29.0	30.5	27.4	28.2	11.7	5.5	2.3	1.6
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)