

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: P320898

Luminaire Tested: **GAN-SA4D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26854 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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

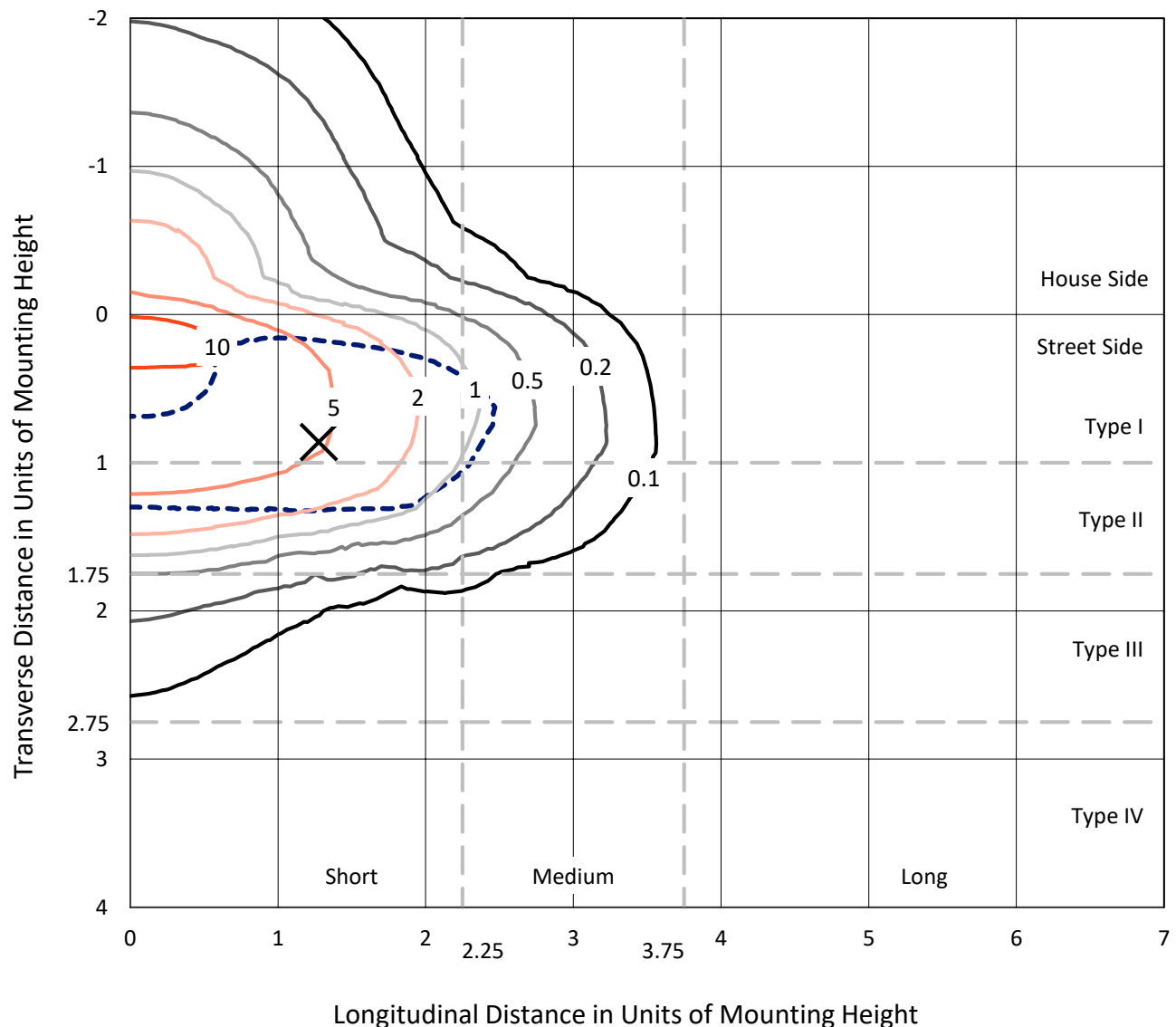


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Iso-Footcandle Lines of Horizontal Illumination

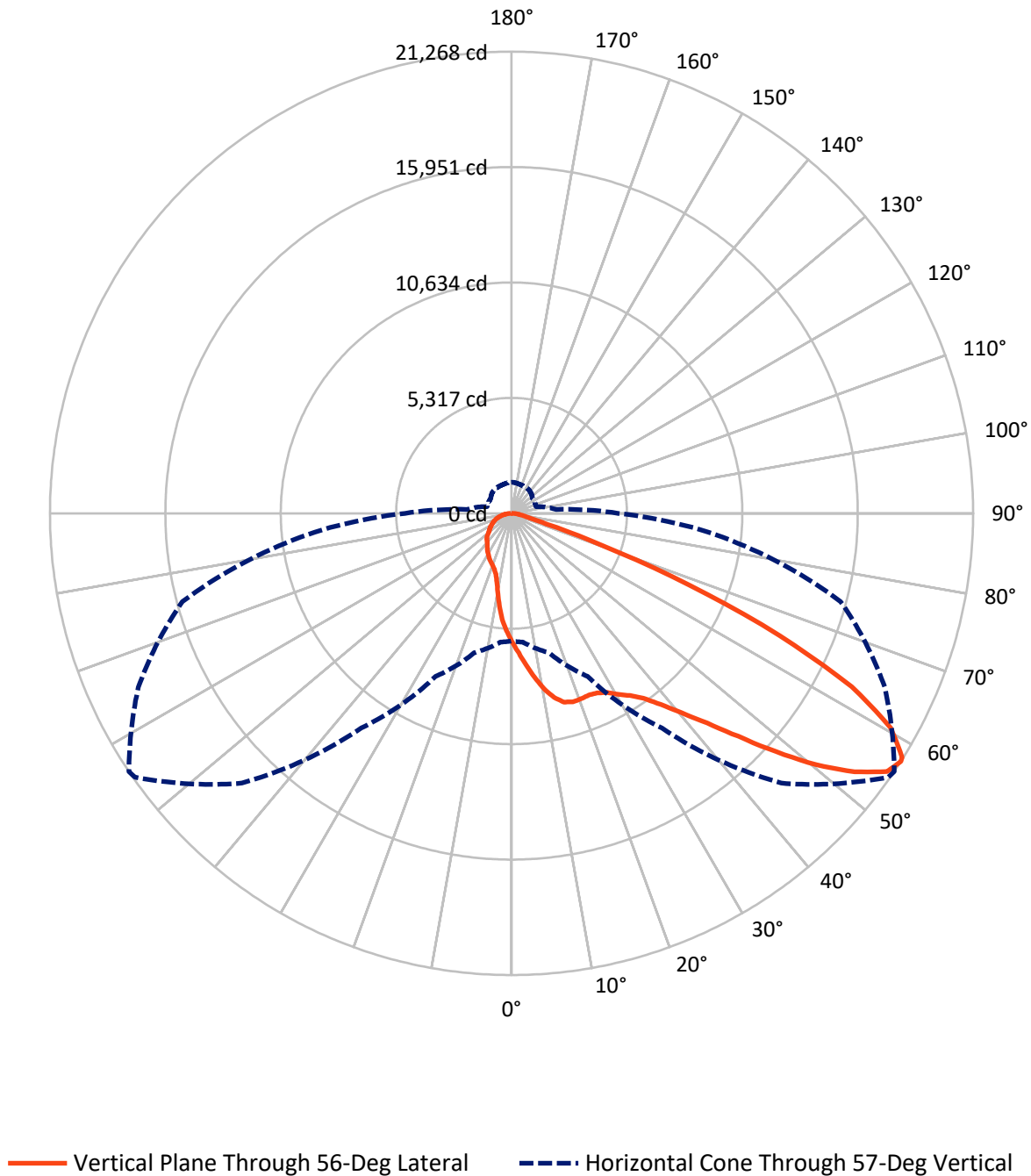
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4629.0	0.0	4629.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	22224.9	0.0	22224.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	26854.0	0.0	26854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.0	2.1
10°-20°	1608.6	6.0
20°-30°	2620.1	9.8
30°-40°	3916.8	14.6
40°-50°	5940.9	22.1
50°-60°	6658.7	24.8
60°-70°	3932.9	14.6
70°-80°	1288.6	4.8
80°-90°	318.4	1.2
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°	26854.0	100.0
0°-180°	26854.0	100.0

Coefficient of Utilization



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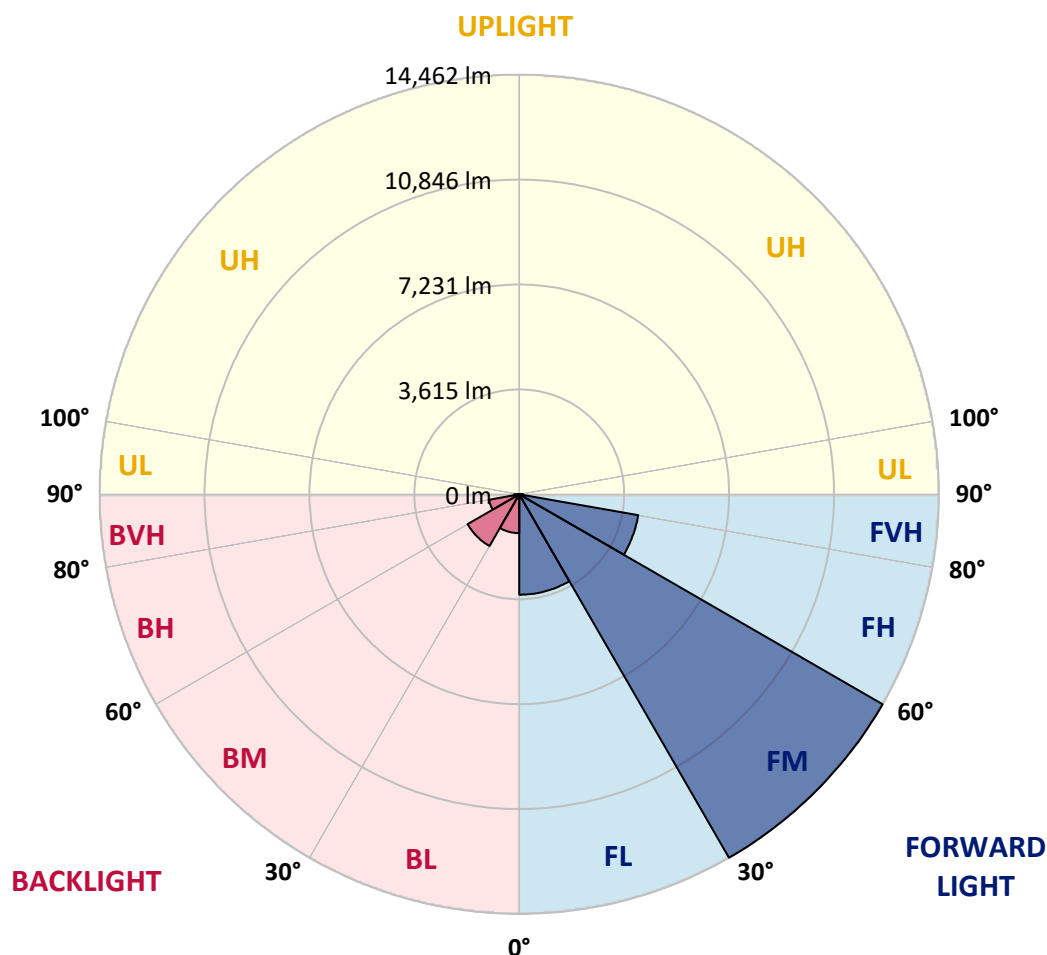
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3459.2	12.9			
FM	(30°-60°)	14461.8	53.9			
FH	(60°-80°)	4163.8	15.5			G2/5000
FVH	(80°-90°)	140.2	0.5			G2/225
BL	(0°-30°)	1338.5	5.0	B3/2500		
BM	(30°-60°)	2054.7	7.7	B2/2500		
BH	(60°-80°)	1057.7	3.9	B3/2500		G3/2500
BVH	(80°-90°)	178.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2
2.5°	6839.4	6902.2	6874.5	6778.5	6704.7	6600.4	6484.1	6449.1	6326.3	6188.8	6023.6
5°	7922.0	7890.6	7845.4	7695.9	7538.1	7354.4	7062.8	7016.6	6743.5	6432.4	6103.9
7.5°	8538.4	8535.7	8508.9	8421.2	8277.3	8037.3	7685.7	7631.3	7218.7	6718.5	6209.1
10°	8448.9	8442.5	8486.8	8578.1	8621.5	8571.7	8275.4	8221.0	7714.3	7035.1	6330.9
12.5°	7940.4	7944.1	8015.2	8207.1	8468.3	8782.1	8734.1	8707.3	8228.4	7393.2	6478.6
15°	7544.5	7552.8	7609.1	7776.2	8084.4	8653.8	9012.8	9022.0	8725.8	7788.2	6651.2
17.5°	7371.0	7388.5	7414.4	7531.6	7814.0	8398.2	9079.3	9129.1	9161.4	8197.9	6817.3
20°	7426.4	7443.0	7450.4	7525.1	7756.8	8243.1	9033.1	9122.6	9495.5	8583.7	6983.4
22.5°	7674.6	7684.8	7689.4	7708.8	7888.7	8287.4	9002.7	9096.8	9737.3	8929.7	7108.9
25°	8086.2	8078.9	8049.3	8024.4	8145.3	8462.8	9072.8	9162.3	9933.8	9243.5	7191.0
27.5°	8579.1	8569.8	8512.6	8444.3	8513.5	8735.9	9274.9	9346.0	10110.1	9537.0	7232.6
30°	9170.6	9146.6	9038.6	8957.4	8984.2	9145.7	9608.1	9672.7	10382.4	9870.2	7273.2
32.5°	9854.5	9828.6	9672.7	9537.9	9537.9	9672.7	9951.4	10004.9	10613.1	10246.7	7338.7
35°	10710.9	10678.6	10475.6	10249.5	10185.8	10254.1	10419.3	10457.1	11028.4	10721.1	7457.8
37.5°	11720.5	11677.1	11414.1	11111.4	10972.1	10968.4	11087.4	11165.0	11691.9	11344.0	7659.9
40°	12732.9	12702.5	12472.7	12234.6	11961.4	11873.7	12057.4	12081.4	12559.4	12117.4	7918.3
42.5°	13515.5	13510.0	13467.5	13498.9	13219.3	13042.1	13186.1	13205.4	13618.9	12954.4	8193.3
45°	13929.0	13938.2	14144.0	14599.9	14703.3	14574.1	14645.1	14650.7	14829.7	13798.8	8445.2
47.5°	13597.7	13645.6	14166.1	15185.9	16032.2	16461.3	16343.2	16411.5	16003.6	14524.2	8642.7
50°	12306.6	12365.6	13251.6	14924.8	16652.4	18287.7	18225.9	18210.2	16950.5	15055.8	8749.8
52.5°	10707.2	10753.4	11484.3	13567.2	16197.4	19297.3	19864.9	19783.7	17792.1	15453.6	8770.1
55°	8271.7	8343.7	9044.2	10857.6	14357.2	18911.6	21070.2	20997.3	18559.0	15662.1	8746.1
57°	5880.6	5956.2	6652.1	8286.5	12077.7	17576.2	21190.2	21267.7	18973.4	15697.2	8772.9
57.5°	5247.5	5325.0	6014.4	7601.7	11367.1	17093.5	21086.8	21216.0	19048.2	15691.7	8787.6
60°	2642.2	2671.7	3111.0	4243.4	7185.5	13819.1	19738.5	20071.6	19115.5	15420.3	8851.3
62.5°	1642.7	1621.5	1607.6	1954.7	3495.9	9164.2	16956.0	17597.4	17826.3	14763.2	8697.2
65°	1444.3	1404.6	1252.3	1224.7	1544.0	4451.0	12768.9	13567.2	15071.5	13727.8	8329.9
67.5°	1356.6	1317.9	1146.2	1042.8	1043.8	1764.5	7927.5	8826.4	11740.8	11977.1	7463.3
70°	1266.2	1231.1	1070.5	948.7	888.7	977.3	3647.2	4329.2	7653.4	9414.3	6237.7
72.5°	1149.9	1125.9	973.6	848.1	784.4	731.8	1396.3	1649.2	4430.7	6322.6	4332.0
75°	1028.1	1005.9	875.8	755.8	678.3	575.9	786.3	847.2	2250.9	3234.7	2132.8
77.5°	894.3	881.3	778.9	668.2	606.3	477.1	556.5	586.0	965.3	1387.1	1069.6
80°	711.5	736.5	681.1	595.3	538.0	382.1	394.1	413.4	562.0	677.4	607.3
82.5°	463.3	506.7	533.4	483.6	443.0	300.9	283.3	291.6	366.4	413.4	263.9
85°	192.9	216.9	350.7	316.5	294.4	219.6	190.1	193.8	227.0	235.3	108.0
87.5°	85.8	91.4	154.1	144.9	124.6	75.7	81.2	88.6	120.9	114.4	41.5
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°	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2	5956.2
2.5°	5961.8	5884.3	5751.4	5604.6	5484.7	5388.7	5291.8	5225.3	5147.8	5106.3	5085.0
5°	5966.4	5814.1	5534.5	5247.5	4990.9	4756.5	4533.2	4361.5	4200.9	4114.2	4090.2
7.5°	5985.8	5756.9	5304.7	4832.2	4376.3	3960.1	3638.9	3437.7	3292.8	3228.2	3209.8
10°	6001.5	5689.5	5020.4	4320.9	3700.7	3279.0	3029.8	2917.2	2867.4	2859.1	2850.8
12.5°	6038.4	5620.3	4721.4	3787.5	3175.6	2884.0	2797.2	2789.9	2803.7	2824.0	2824.0
15°	6096.5	5552.0	4380.0	3329.7	2841.5	2739.1	2756.6	2797.2	2835.1	2866.5	2871.1
17.5°	6139.0	5468.0	4012.7	2963.4	2663.4	2691.1	2753.9	2811.1	2849.8	2880.3	2883.1
20°	6169.4	5337.9	3620.4	2683.7	2561.0	2646.8	2725.3	2776.0	2802.8	2833.2	2837.8
22.5°	6153.7	5163.5	3272.5	2483.5	2477.9	2582.2	2657.0	2717.9	2697.6	2668.0	2687.4
25°	6078.1	4923.5	2914.4	2334.0	2390.2	2495.5	2587.7	2547.1	2478.8	2465.9	2473.3
27.5°	5943.3	4617.1	2583.1	2195.5	2288.7	2415.2	2409.6	2369.0	2345.0	2328.4	2338.6
30°	5798.4	4284.9	2293.3	2074.6	2176.1	2280.4	2259.2	2258.3	2234.3	2207.5	2220.4
32.5°	5655.4	3950.8	2063.6	1975.0	2091.2	2105.1	2151.2	2165.1	2118.0	2061.7	2058.0
35°	5530.8	3635.2	1889.1	1884.5	1988.8	1990.6	2058.0	2038.6	1921.4	1863.3	1863.3
37.5°	5437.6	3320.5	1756.2	1803.3	1854.1	1902.0	1936.2	1855.9	1836.5	1804.2	1803.3
40°	5397.0	3043.6	1673.2	1741.5	1759.0	1819.9	1732.2	1763.6	1772.8	1756.2	1756.2
42.5°	5354.5	2802.8	1601.2	1694.4	1691.6	1683.3	1639.0	1679.6	1716.5	1717.5	1714.7
45°	5312.1	2595.1	1537.5	1593.8	1632.6	1543.0	1551.4	1594.7	1646.4	1664.9	1664.9
47.5°	5265.0	2430.9	1479.4	1487.7	1547.7	1487.7	1481.2	1514.4	1575.3	1604.9	1611.3
50°	5161.6	2283.2	1412.9	1394.5	1411.1	1431.4	1436.9	1452.6	1520.0	1567.0	1578.1
52.5°	5018.6	2151.2	1328.0	1308.6	1308.6	1385.2	1411.1	1415.7	1472.9	1529.2	1540.3
55°	4899.5	2067.2	1240.3	1236.7	1233.0	1336.3	1380.6	1388.0	1427.7	1472.0	1477.5
57°	4907.9	2060.8	1173.0	1176.7	1175.7	1286.5	1352.0	1367.7	1388.0	1425.8	1432.3
57.5°	4912.5	2065.4	1158.2	1160.1	1159.1	1272.6	1343.7	1361.2	1376.9	1416.6	1423.1
60°	4981.7	2077.4	1098.2	1077.9	1082.5	1198.8	1296.6	1318.8	1328.9	1381.5	1389.9
62.5°	4879.2	2023.9	1050.2	1001.3	1001.3	1121.3	1231.1	1266.2	1281.9	1352.9	1366.8
65°	4582.1	1873.4	993.9	914.6	923.8	1043.8	1152.7	1209.9	1233.9	1322.5	1337.2
67.5°	4123.4	1699.0	934.0	837.0	846.3	962.6	1071.5	1133.3	1171.1	1289.3	1301.3
70°	3526.3	1485.8	852.7	754.9	766.0	874.0	975.5	1045.6	1101.9	1257.9	1261.6
72.5°	2599.7	1218.2	739.2	664.5	676.5	770.6	878.6	959.8	1035.5	1179.4	1177.6
75°	1545.8	952.4	613.7	573.1	581.4	669.1	790.9	889.7	1003.2	1149.0	1166.5
77.5°	937.6	717.1	500.2	479.9	490.0	579.6	728.1	833.4	989.3	1083.5	1077.9
80°	566.6	512.2	399.6	386.7	396.8	495.6	673.7	790.9	864.7	925.6	925.6
82.5°	296.2	312.9	293.5	283.3	297.2	402.4	612.8	690.3	764.1	656.2	612.8
85°	120.9	163.3	178.1	177.2	185.5	278.7	528.8	590.6	492.8	467.9	479.0
87.5°	40.6	69.2	86.8	74.8	78.4	175.3	366.4	285.2	338.7	236.3	224.3
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)