

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: P321131

Luminaire Tested: **GAN-SA7C-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321131
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-SA7C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40786 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

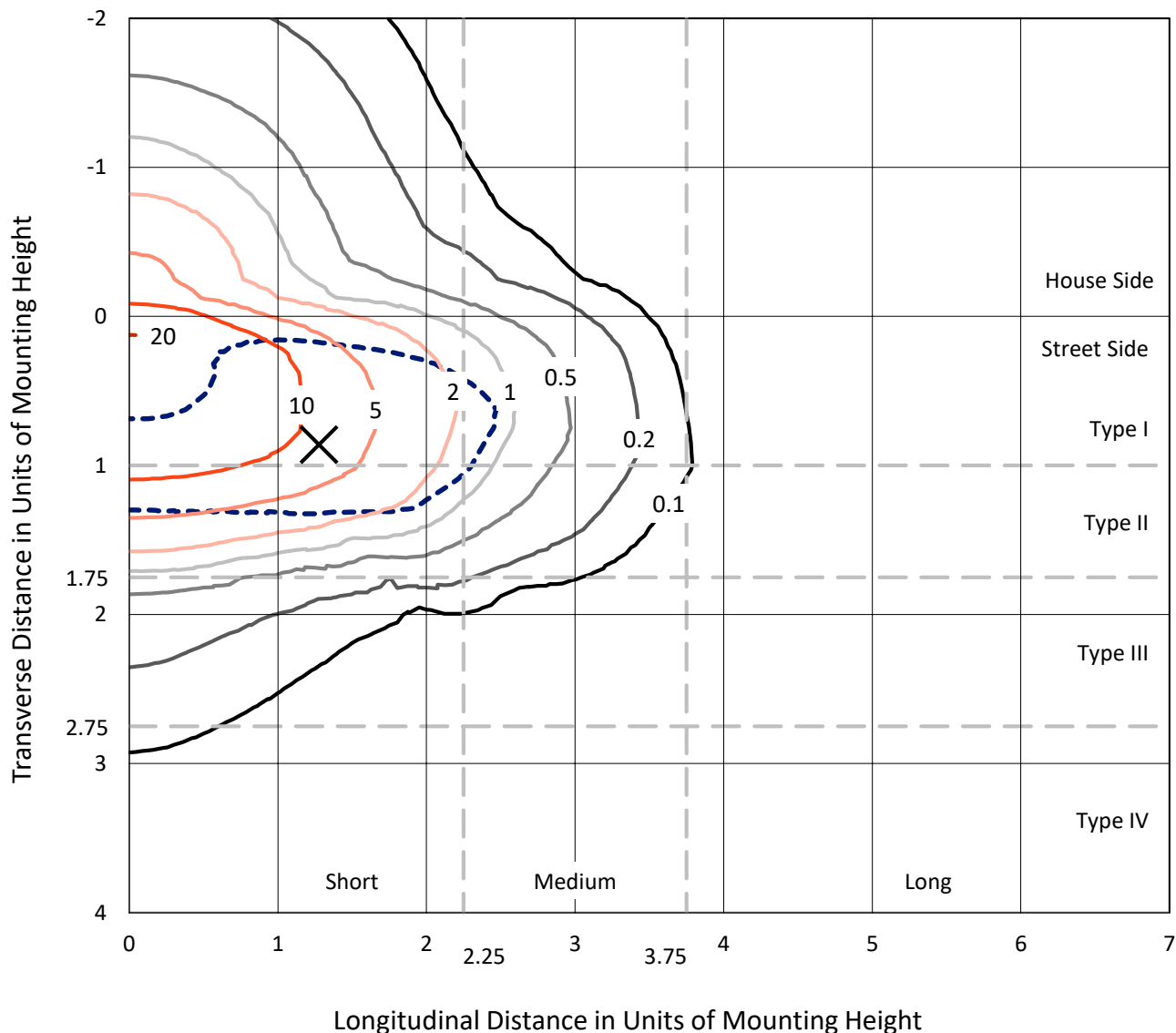
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

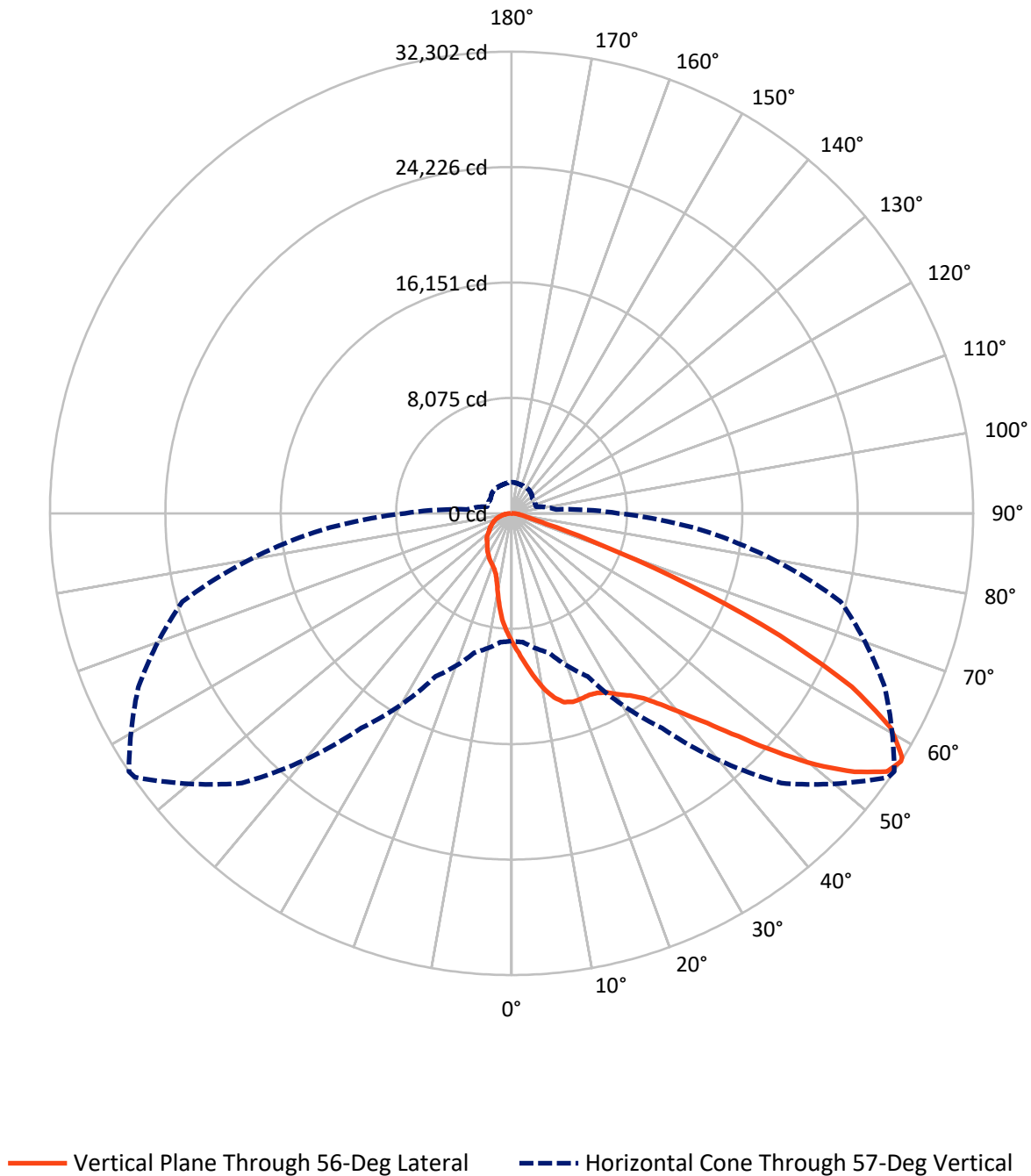
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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	7030.6	0.0	7030.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	33755.4	0.0	33755.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	40786.0	0.0	40786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.2	2.1
10°-20°	2443.2	6.0
20°-30°	3979.5	9.8
30°-40°	5948.8	14.6
40°-50°	9023.1	22.1
50°-60°	10113.3	24.8
60°-70°	5973.3	14.6
70°-80°	1957.1	4.8
80°-90°	483.5	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°	40786.0	100.0
0°-180°	40786.0	100.0

Coefficient of Utilization



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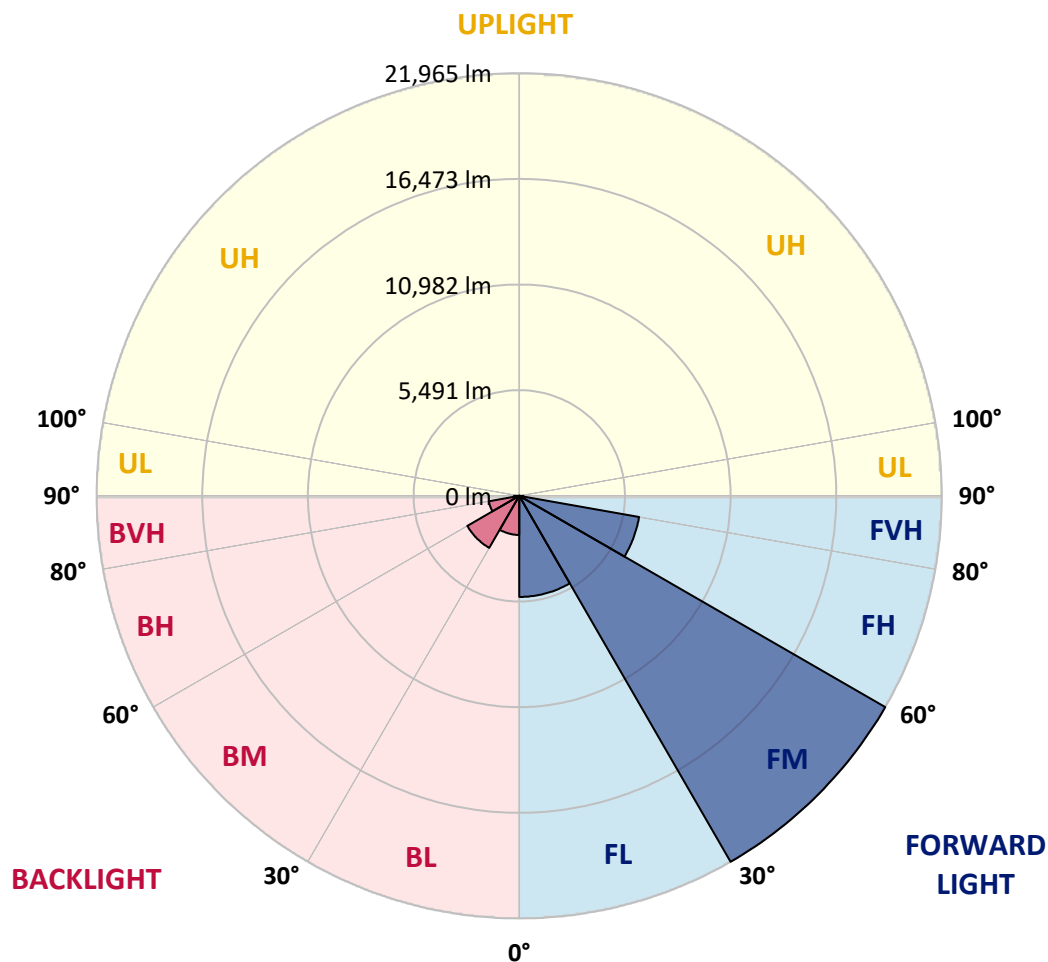
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5253.8	12.9			
FM	(30°-60°)	21964.6	53.9			
FH	(60°-80°)	6324.0	15.5			G3/7500
FVH	(80°-90°)	212.9	0.5			G2/225
BL	(0°-30°)	2032.9	5.0	B3/2500		
BM	(30°-60°)	3120.7	7.7	B3/5000		
BH	(60°-80°)	1606.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	270.6	0.7			G3/500
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°	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4
2.5°	10387.8	10483.1	10441.0	10295.3	10183.1	10024.7	9848.1	9794.9	9608.4	9399.6	9148.7
5°	12031.9	11984.3	11915.6	11688.5	11448.8	11169.9	10727.0	10656.9	10242.0	9769.6	9270.6
7.5°	12968.2	12964.0	12923.4	12790.2	12571.6	12207.1	11673.1	11590.4	10963.9	10204.2	9430.4
10°	12832.3	12822.5	12889.7	13028.5	13094.4	13018.7	12568.8	12486.1	11716.6	10684.9	9615.4
12.5°	12060.0	12065.6	12173.5	12465.0	12861.7	13338.3	13265.4	13224.7	12497.3	11228.8	9839.7
15°	11458.6	11471.3	11556.8	11810.5	12278.6	13143.5	13688.7	13702.7	13252.8	11828.7	10101.8
17.5°	11195.1	11221.8	11261.0	11439.0	11867.9	12755.2	13789.6	13865.3	13914.4	12451.0	10354.1
20°	11279.2	11304.5	11315.7	11429.2	11781.0	12519.7	13719.5	13855.5	14421.8	13036.9	10606.4
22.5°	11656.3	11671.7	11678.7	11708.1	11981.5	12587.0	13673.3	13816.3	14789.0	13562.5	10797.1
25°	12281.4	12270.2	12225.4	12187.5	12371.1	12853.3	13779.8	13915.8	15087.6	14039.1	10921.8
27.5°	13029.9	13015.9	12929.0	12825.3	12930.4	13268.2	14086.8	14194.7	15355.3	14484.8	10984.9
30°	13928.4	13891.9	13727.9	13604.6	13645.2	13890.5	14592.8	14690.9	15768.8	14990.9	11046.6
32.5°	14967.0	14927.8	14690.9	14486.2	14486.2	14690.9	15114.2	15195.5	16119.2	15562.7	11146.1
35°	16267.8	16218.7	15910.3	15566.9	15470.2	15573.9	15824.8	15882.3	16749.9	16283.2	11326.9
37.5°	17801.2	17735.3	17335.8	16876.1	16664.4	16658.8	16839.7	16957.4	17757.7	17229.3	11633.9
40°	19338.8	19292.6	18943.6	18581.9	18167.0	18033.9	18312.8	18349.2	19075.3	18403.9	12026.3
42.5°	20527.4	20519.0	20454.6	20502.2	20077.5	19808.4	20027.0	20056.5	20684.4	19675.2	12444.0
45°	21155.4	21169.4	21482.0	22174.4	22331.4	22135.2	22243.1	22251.5	22523.4	20957.8	12826.7
47.5°	20652.2	20725.1	21515.6	23064.5	24349.8	25001.6	24822.2	24925.9	24306.3	22059.5	13126.6
50°	18691.3	18781.0	20126.6	22667.8	25291.7	27775.5	27681.6	27657.7	25744.5	22866.8	13289.2
52.5°	16262.2	16332.2	17442.4	20605.9	24600.7	29308.9	30170.9	30047.6	27022.8	23470.9	13320.1
55°	12563.2	12672.5	13736.4	16490.6	21805.8	28723.0	32001.5	31890.8	28187.6	23787.7	13283.6
57°	8931.4	9046.4	10103.2	12585.6	18343.6	26694.8	32183.7	32301.5	28816.9	23841.0	13324.3
57.5°	7969.9	8087.6	9134.7	11545.5	17264.4	25961.7	32026.7	32223.0	28930.4	23832.6	13346.7
60°	4013.0	4057.8	4725.0	6444.9	10913.4	20988.6	29978.9	30484.9	29032.8	23420.5	13443.4
62.5°	2495.0	2462.7	2441.7	2968.7	5309.5	13918.6	25752.9	26727.0	27074.6	22422.5	13209.3
65°	2193.6	2133.3	1902.1	1860.0	2345.0	6760.2	19393.5	20605.9	22890.7	20849.8	12651.5
67.5°	2060.5	2001.6	1740.9	1583.9	1585.3	2680.0	12040.3	13405.6	17832.0	18190.9	11335.3
70°	1923.1	1869.8	1625.9	1440.9	1349.8	1484.4	5539.4	6575.2	11624.0	14298.4	9473.9
72.5°	1746.5	1710.0	1478.8	1288.1	1191.4	1111.5	2120.7	2504.8	6729.4	9602.8	6579.4
75°	1561.5	1527.8	1330.2	1148.0	1030.2	874.6	1194.2	1286.7	3418.7	4912.8	3239.3
77.5°	1358.2	1338.6	1183.0	1014.8	920.9	724.7	845.2	890.1	1466.1	2106.7	1624.5
80°	1080.7	1118.5	1034.4	904.1	817.2	580.3	598.5	627.9	853.6	1028.8	922.3
82.5°	703.6	769.5	810.2	734.5	672.8	456.9	430.3	442.9	556.5	627.9	400.9
85°	292.9	329.4	532.6	480.8	447.1	333.6	288.7	294.4	344.8	357.4	164.0
87.5°	130.4	138.8	234.1	220.1	189.2	114.9	123.3	134.6	183.6	173.8	63.1
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°	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4	9046.4
2.5°	9054.8	8937.0	8735.2	8512.3	8330.1	8184.3	8037.2	7936.3	7818.5	7755.4	7723.2
5°	9061.8	8830.5	8405.8	7969.9	7580.2	7224.2	6885.0	6624.3	6380.4	6248.6	6212.2
7.5°	9091.2	8743.6	8056.8	7339.1	6646.7	6014.6	5526.8	5221.2	5001.2	4903.0	4875.0
10°	9115.1	8641.3	7625.1	6562.6	5620.7	4980.1	4601.7	4430.7	4355.0	4342.4	4329.8
12.5°	9171.1	8536.2	7170.9	5752.4	4823.1	4380.2	4248.5	4237.2	4258.3	4289.1	4289.1
15°	9259.4	8432.4	6652.3	5057.2	4315.7	4160.2	4186.8	4248.5	4305.9	4353.6	4360.6
17.5°	9323.9	8304.9	6094.5	4500.8	4045.2	4087.3	4182.6	4269.5	4328.4	4374.6	4378.8
20°	9370.2	8107.3	5498.7	4076.1	3889.6	4020.0	4139.1	4216.2	4256.9	4303.1	4310.1
22.5°	9346.3	7842.3	4970.3	3771.9	3763.5	3921.9	4035.4	4127.9	4097.1	4052.2	4081.7
25°	9231.4	7477.9	4426.5	3544.8	3630.3	3790.1	3930.3	3868.6	3764.9	3745.3	3756.5
27.5°	9026.7	7012.6	3923.3	3334.6	3476.1	3668.2	3659.8	3598.1	3561.6	3536.4	3551.8
30°	8806.7	6507.9	3483.1	3151.0	3305.1	3463.5	3431.3	3429.9	3393.4	3352.8	3372.4
32.5°	8589.4	6000.5	3134.1	2999.6	3176.2	3197.2	3267.3	3288.3	3216.8	3131.3	3125.7
35°	8400.2	5521.2	2869.2	2862.2	3020.6	3023.4	3125.7	3096.3	2918.3	2830.0	2830.0
37.5°	8258.6	5043.2	2667.4	2738.9	2816.0	2888.8	2940.7	2818.8	2789.3	2740.3	2738.9
40°	8197.0	4622.7	2541.2	2644.9	2671.6	2764.1	2630.9	2678.6	2692.6	2667.4	2667.4
42.5°	8132.5	4256.9	2431.9	2573.5	2569.3	2556.6	2489.4	2551.0	2607.1	2608.5	2604.3
45°	8068.0	3941.5	2335.2	2420.7	2479.6	2343.6	2356.2	2422.1	2500.6	2528.6	2528.6
47.5°	7996.5	3692.0	2246.9	2259.5	2350.6	2259.5	2249.7	2300.1	2392.6	2437.5	2447.3
50°	7839.5	3467.7	2146.0	2117.9	2143.2	2174.0	2182.4	2206.2	2308.5	2380.0	2396.9
52.5°	7622.3	3267.3	2017.0	1987.6	1987.6	2103.9	2143.2	2150.2	2237.1	2322.6	2339.4
55°	7441.5	3139.7	1883.8	1878.2	1872.6	2029.6	2096.9	2108.1	2168.4	2235.7	2244.1
57°	7454.1	3129.9	1781.5	1787.1	1785.7	1953.9	2053.4	2077.3	2108.1	2165.6	2175.4
57.5°	7461.1	3136.9	1759.1	1761.9	1760.5	1932.9	2040.8	2067.5	2091.3	2151.6	2161.4
60°	7566.2	3155.2	1668.0	1637.1	1644.2	1820.8	1969.3	2003.0	2018.4	2098.3	2110.9
62.5°	7410.6	3073.9	1595.1	1520.8	1520.8	1703.0	1869.8	1923.1	1946.9	2054.8	2075.9
65°	6959.3	2845.4	1509.6	1389.1	1403.1	1585.3	1750.7	1837.6	1874.0	2008.6	2031.0
67.5°	6262.7	2580.5	1418.5	1271.3	1285.3	1461.9	1627.3	1721.2	1778.7	1958.1	1976.4
70°	5355.8	2256.7	1295.1	1146.6	1163.4	1327.4	1481.6	1588.1	1673.6	1910.5	1916.1
72.5°	3948.5	1850.2	1122.7	1009.2	1027.4	1170.4	1334.4	1457.7	1572.7	1791.3	1788.5
75°	2347.8	1446.5	932.1	870.4	883.1	1016.2	1201.2	1351.2	1523.6	1745.1	1771.7
77.5°	1424.1	1089.1	759.7	728.9	744.3	880.2	1105.9	1265.7	1502.6	1645.6	1637.1
80°	860.6	777.9	606.9	587.3	602.7	752.7	1023.2	1201.2	1313.4	1405.9	1405.9
82.5°	449.9	475.2	445.7	430.3	451.3	611.1	930.7	1048.4	1160.6	996.6	930.7
85°	183.6	248.1	270.5	269.1	281.7	423.3	803.2	897.1	748.5	710.6	727.5
87.5°	61.7	105.1	131.8	113.5	119.1	266.3	556.5	433.1	514.4	358.8	340.6
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)