

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: P317561

Luminaire Tested: **GAN-SA7B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30957 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

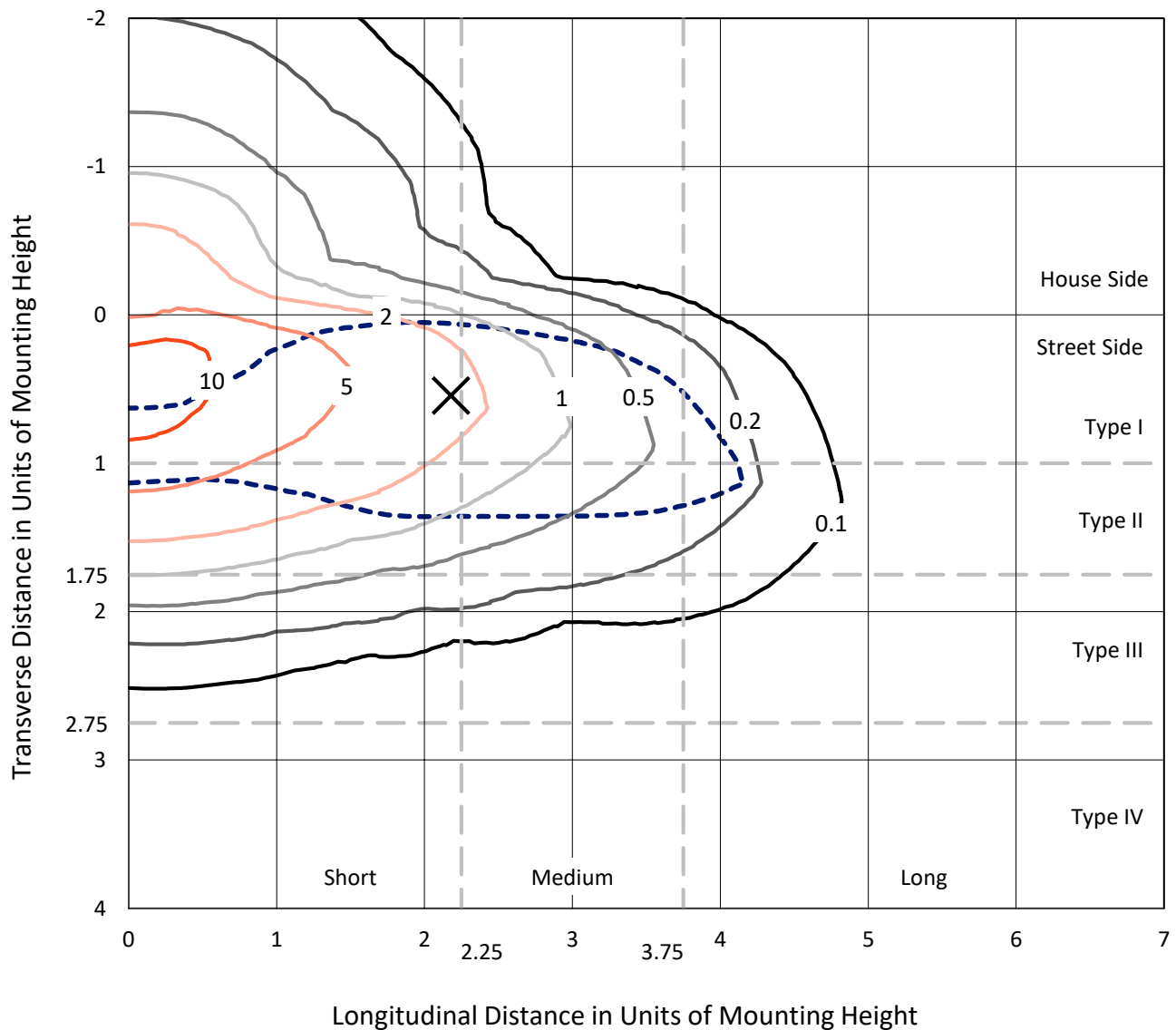
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

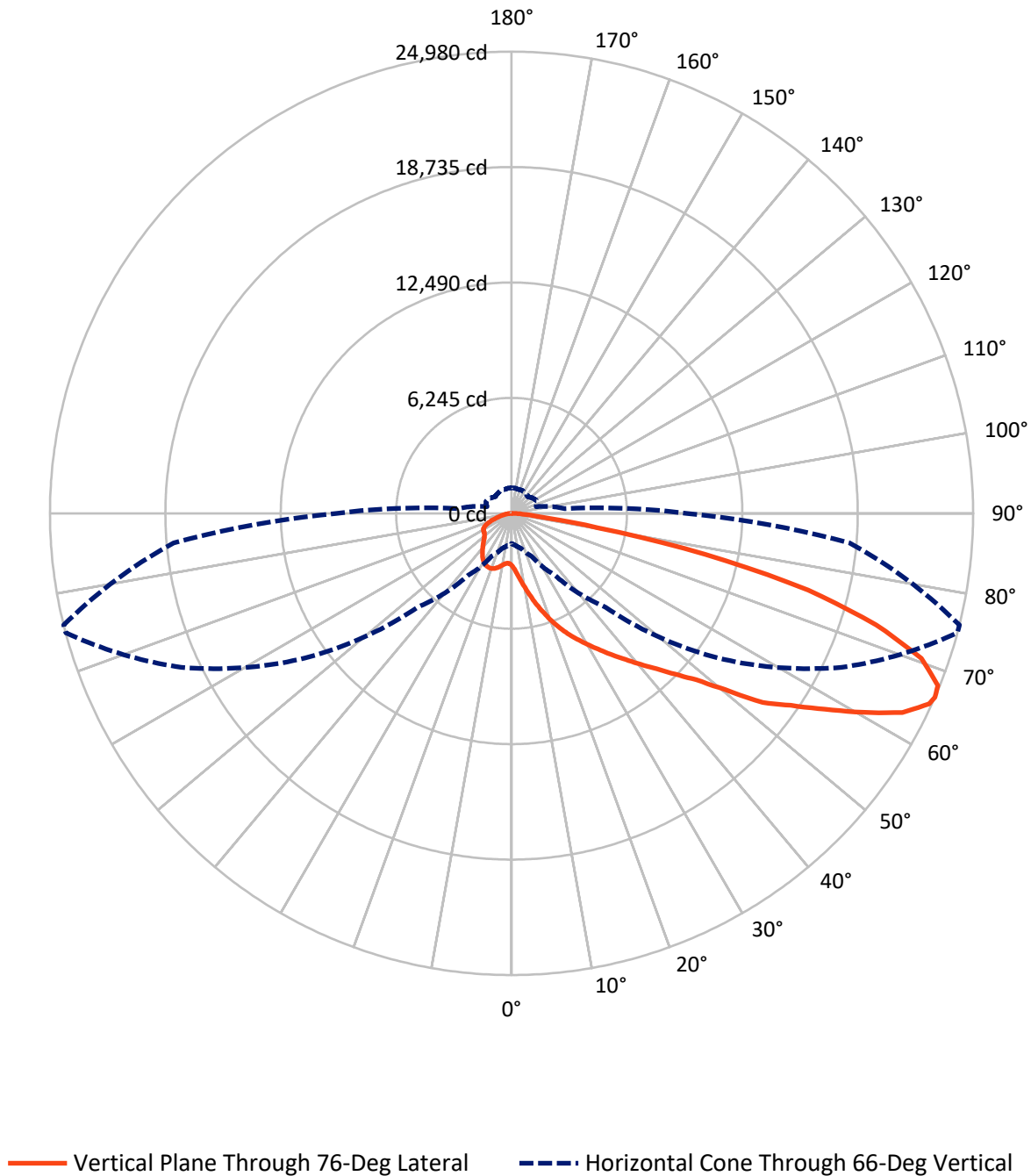
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	5209.0	0.0	5209.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	25748.0	0.0	25748.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	30957.0	0.0	30957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.9	1.1
10°-20°	1350.0	4.4
20°-30°	2623.4	8.5
30°-40°	4282.0	13.8
40°-50°	5850.2	18.9
50°-60°	6814.4	22.0
60°-70°	6109.2	19.7
70°-80°	3087.3	10.0
80°-90°	498.6	1.6
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°	30957.0	100.0
0°-180°	30957.0	100.0

Coefficient of Utilization



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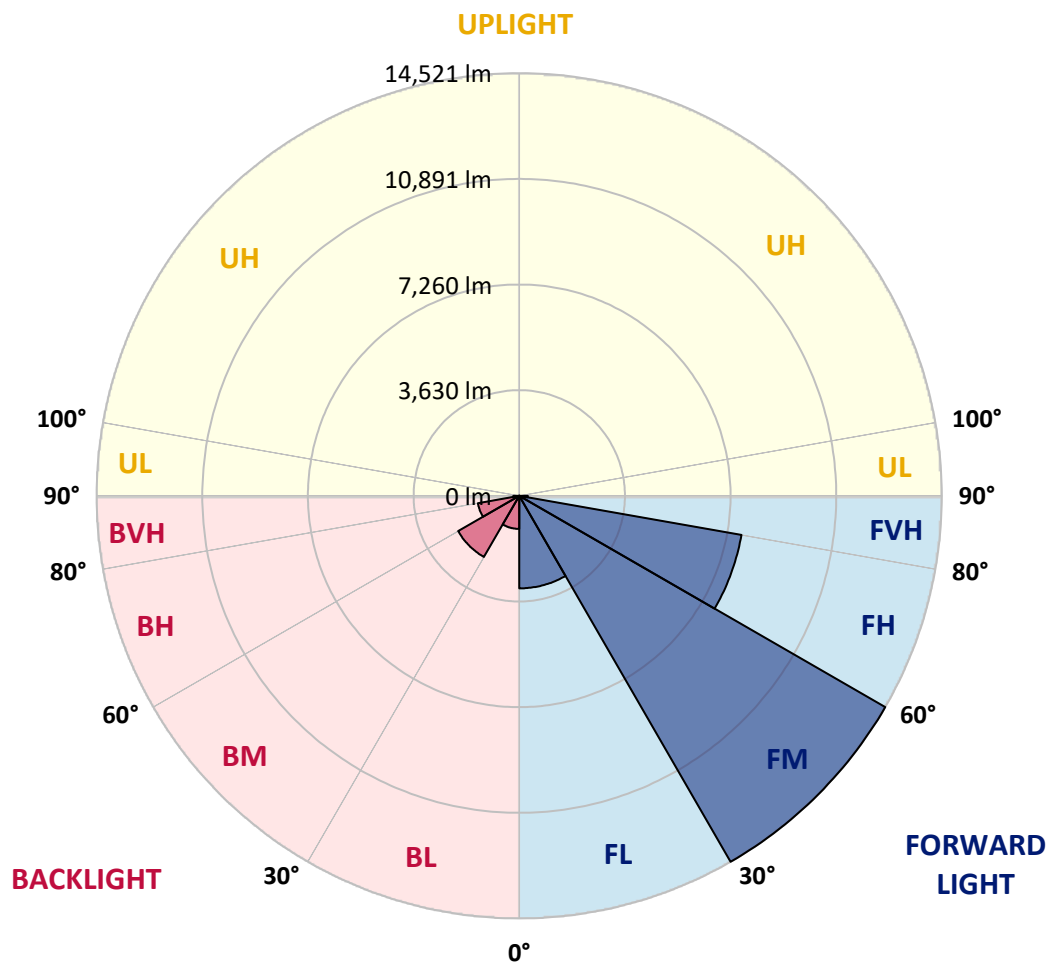
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3179.2	10.3			
FM	(30°-60°)	14521.0	46.9			
FH	(60°-80°)	7753.4	25.0			G4/12000
FVH	(80°-90°)	294.4	1.0			G3/500
BL	(0°-30°)	1136.1	3.7	B3/2500		
BM	(30°-60°)	2425.6	7.8	B2/2500		
BH	(60°-80°)	1443.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	204.1	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1
2.5°	3753.0	3696.2	3691.0	3607.9	3589.0	3430.3	3313.7	3191.8	3053.0	3025.7	2916.4
5°	4820.7	4815.5	4743.0	4607.4	4501.2	4230.1	3962.1	3678.3	3367.3	3316.8	3070.9
7.5°	5781.3	5772.9	5717.2	5571.1	5417.7	5084.5	4702.0	4266.9	3762.4	3687.8	3280.0
10°	6510.7	6507.5	6488.6	6381.4	6251.1	5931.6	5509.1	4915.3	4221.7	4119.7	3541.7
12.5°	7074.0	7080.3	7092.9	7055.1	6993.1	6720.9	6287.9	5602.6	4711.4	4610.5	3832.8
15°	7455.5	7474.4	7539.6	7593.2	7625.7	7458.6	7039.3	6305.7	5260.0	5139.2	4155.5
17.5°	7647.8	7668.8	7781.3	7943.1	8092.4	8075.5	7742.4	6976.2	5786.6	5669.9	4502.3
20°	7813.9	7829.6	7955.7	8150.2	8414.0	8530.6	8343.5	7621.5	6363.5	6224.8	4870.1
22.5°	8295.2	8315.2	8353.0	8463.4	8696.7	8911.1	8820.7	8232.1	6892.2	6762.9	5219.0
25°	9224.2	9248.4	9166.4	9072.9	9117.0	9266.3	9283.1	8789.1	7428.2	7282.1	5594.2
27.5°	10343.5	10378.2	10238.4	9997.7	9787.6	9729.8	9709.8	9245.3	7940.0	7770.8	5965.2
30°	11439.7	11499.6	11317.7	11005.6	10619.9	10348.8	10148.0	9691.9	8444.4	8282.6	6315.2
32.5°	12510.6	12486.4	12222.6	11917.8	11465.9	11126.5	10640.9	10171.2	9011.9	8825.9	6663.1
35°	13244.2	13252.6	13007.7	12646.2	12215.3	11954.6	11300.9	10688.2	9591.0	9419.7	7058.2
37.5°	13868.4	13829.5	13552.1	13214.7	12843.7	12732.3	12073.4	11257.8	10218.4	10031.4	7478.6
40°	14076.5	14031.3	13849.5	13606.7	13309.3	13299.9	12925.7	11903.1	10927.8	10742.9	7952.6
42.5°	13950.4	13892.6	13818.0	13751.8	13660.3	13702.4	13726.5	12659.8	11707.7	11500.6	8501.2
45°	13484.8	13397.6	13450.1	13594.1	13792.7	14030.3	14449.6	13497.4	12581.0	12407.6	9145.4
47.5°	12769.1	12690.3	12854.2	13162.2	13702.4	14303.5	15133.8	14422.3	13623.5	13451.2	10062.9
50°	11762.3	11785.4	12019.8	12579.9	13396.5	14429.6	15976.6	15646.6	15139.0	14978.2	11314.6
52.5°	10110.2	10114.4	10774.4	11694.0	12854.2	14364.5	16444.3	17211.5	17208.4	17013.9	12506.4
55°	8575.8	8669.3	9191.7	10413.9	11975.6	14103.8	16771.2	17972.4	18567.2	18339.2	13617.2
57.5°	7077.1	7131.8	7626.8	8854.3	10721.9	13409.2	17106.4	18885.7	20133.2	19989.2	14998.2
60°	5372.5	5456.6	5968.4	7102.4	9118.1	12176.4	17137.9	19838.9	22004.9	21859.9	16539.9
62.5°	3487.1	3632.1	4111.3	5173.9	7178.0	10403.4	16406.5	20462.1	23778.9	23727.4	17908.3
65°	2004.2	2113.5	2446.6	3266.4	4952.1	8177.5	14667.1	20222.5	24870.9	24841.5	18420.1
66°	1637.4	1705.7	1961.1	2552.8	4086.1	7181.2	13656.1	19717.0	24979.1	24980.2	18361.3
67.5°	1309.5	1340.0	1454.5	1827.6	3015.2	5692.0	11849.5	18601.9	24844.6	24881.4	17981.9
70°	1083.5	1099.3	1135.0	1225.4	1645.8	3432.4	8410.8	15704.4	23494.1	23522.5	16501.1
72.5°	972.1	981.6	995.3	1007.9	1161.3	1918.0	5137.1	12563.1	20598.7	20635.5	14244.7
75°	880.7	886.0	883.9	884.9	974.2	1222.3	2654.7	9379.8	16655.6	16582.0	10912.1
77.5°	773.5	778.8	768.2	770.4	861.8	939.6	1321.1	6566.4	11240.0	10720.8	6148.1
80°	653.7	657.9	653.7	661.1	750.4	709.4	768.2	3694.1	4970.0	4700.9	2186.0
82.5°	493.9	511.8	524.4	553.9	618.0	504.5	513.9	1438.8	1513.4	1440.9	670.5
85°	216.5	263.8	395.2	423.5	464.5	302.7	337.4	586.4	615.9	596.9	243.8
87.5°	56.8	62.0	195.5	245.9	257.5	136.6	175.5	266.9	281.7	266.9	80.9
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°	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1	2827.1
2.5°	2858.6	2807.1	2714.6	2632.6	2570.6	2528.6	2486.6	2465.5	2452.9	2440.3	2442.4
5°	2950.0	2846.0	2687.3	2574.8	2511.8	2471.8	2450.8	2442.4	2437.2	2424.6	2424.6
7.5°	3087.7	2940.6	2722.0	2606.4	2557.0	2526.5	2513.9	2509.7	2503.4	2488.7	2490.8
10°	3261.1	3055.1	2794.5	2682.0	2636.8	2603.2	2585.4	2579.0	2567.5	2550.7	2552.8
12.5°	3465.0	3197.0	2890.1	2772.4	2717.8	2672.6	2643.2	2625.3	2605.3	2583.3	2584.3
15°	3687.8	3351.5	2993.1	2853.3	2778.7	2715.7	2668.4	2637.9	2606.4	2579.0	2578.0
17.5°	3913.8	3500.7	3071.9	2897.5	2796.6	2713.6	2649.5	2602.2	2563.3	2529.7	2526.5
20°	4157.6	3635.3	3116.1	2893.3	2763.0	2664.2	2579.0	2520.2	2477.1	2443.5	2438.2
22.5°	4405.6	3761.4	3123.4	2850.2	2688.3	2567.5	2478.2	2413.0	2368.9	2334.2	2321.6
25°	4632.6	3859.1	3093.0	2767.2	2584.3	2454.0	2366.8	2300.5	2264.8	2223.8	2211.2
27.5°	4839.7	3927.4	3032.0	2661.0	2467.6	2339.4	2257.5	2200.7	2161.8	2130.3	2119.8
30°	5025.7	3964.2	2932.2	2534.9	2347.8	2231.2	2161.8	2122.9	2089.3	2049.4	2042.0
32.5°	5202.2	3964.2	2804.0	2397.2	2229.1	2135.5	2094.6	2070.4	2032.5	1993.7	1983.2
35°	5378.8	3940.0	2652.6	2253.3	2119.8	2067.2	2065.1	2036.8	1979.0	1926.4	1912.7
37.5°	5564.8	3890.6	2482.4	2118.7	2030.4	2036.8	2054.6	1991.6	1909.6	1835.0	1815.0
40°	5775.0	3822.3	2305.8	2002.1	1955.8	2023.1	2026.2	1926.4	1766.7	1698.3	1680.5
42.5°	6022.0	3754.0	2141.8	1899.1	1897.0	1982.1	1972.6	1785.6	1689.9	1655.3	1645.8
45°	6346.7	3715.1	1986.3	1801.3	1850.7	1915.9	1881.2	1707.8	1667.9	1647.9	1639.5
47.5°	6858.5	3735.1	1843.4	1723.6	1804.5	1849.7	1711.0	1676.3	1647.9	1623.7	1615.3
50°	7499.6	3723.5	1727.8	1670.0	1751.9	1780.3	1634.2	1635.3	1620.6	1593.2	1580.6
52.5°	7982.0	3633.2	1653.2	1639.5	1705.7	1657.4	1585.9	1595.4	1588.0	1548.1	1534.4
55°	8447.6	3555.4	1615.3	1627.9	1672.1	1503.9	1529.1	1552.3	1544.9	1506.0	1499.7
57.5°	9026.7	3540.7	1592.2	1631.1	1643.7	1427.2	1474.5	1505.0	1499.7	1482.9	1479.7
60°	9736.1	3544.9	1571.2	1636.3	1612.2	1370.4	1423.0	1461.9	1465.0	1461.9	1459.8
62.5°	10126.0	3430.3	1518.6	1621.6	1556.5	1321.1	1369.4	1426.1	1427.2	1433.5	1432.5
65°	9794.9	3087.7	1420.9	1570.1	1462.9	1280.1	1323.2	1385.2	1369.4	1397.8	1397.8
66°	9473.3	2890.1	1372.5	1536.5	1423.0	1264.3	1308.4	1364.1	1344.2	1383.1	1383.1
67.5°	8816.5	2557.0	1285.3	1465.0	1366.2	1242.2	1291.6	1329.5	1302.1	1359.9	1355.7
70°	7616.3	1977.9	1109.8	1303.2	1272.7	1209.7	1268.5	1260.1	1220.2	1308.4	1291.6
72.5°	6421.3	1502.9	891.2	1090.9	1130.8	1168.7	1235.9	1171.8	1121.4	1183.4	1146.6
75°	4982.6	1129.8	704.1	848.1	955.3	1104.6	1197.0	1069.9	997.4	991.1	971.1
77.5°	2693.6	775.6	558.1	647.4	758.8	1024.7	1170.8	960.6	851.3	826.1	810.3
80°	1066.7	504.5	405.7	490.8	530.7	909.1	1107.7	833.4	702.0	676.8	652.6
82.5°	440.4	298.5	261.7	328.9	345.8	777.7	994.2	683.1	542.3	750.4	796.6
85°	189.2	163.9	155.5	170.3	195.5	545.4	791.4	521.3	585.4	522.3	415.1
87.5°	56.8	69.4	66.2	65.2	71.5	130.3	421.4	290.1	429.8	162.9	121.9
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)