

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: P317380

Luminaire Tested: **GAN-SA6D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317380
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-SA6D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40432 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
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



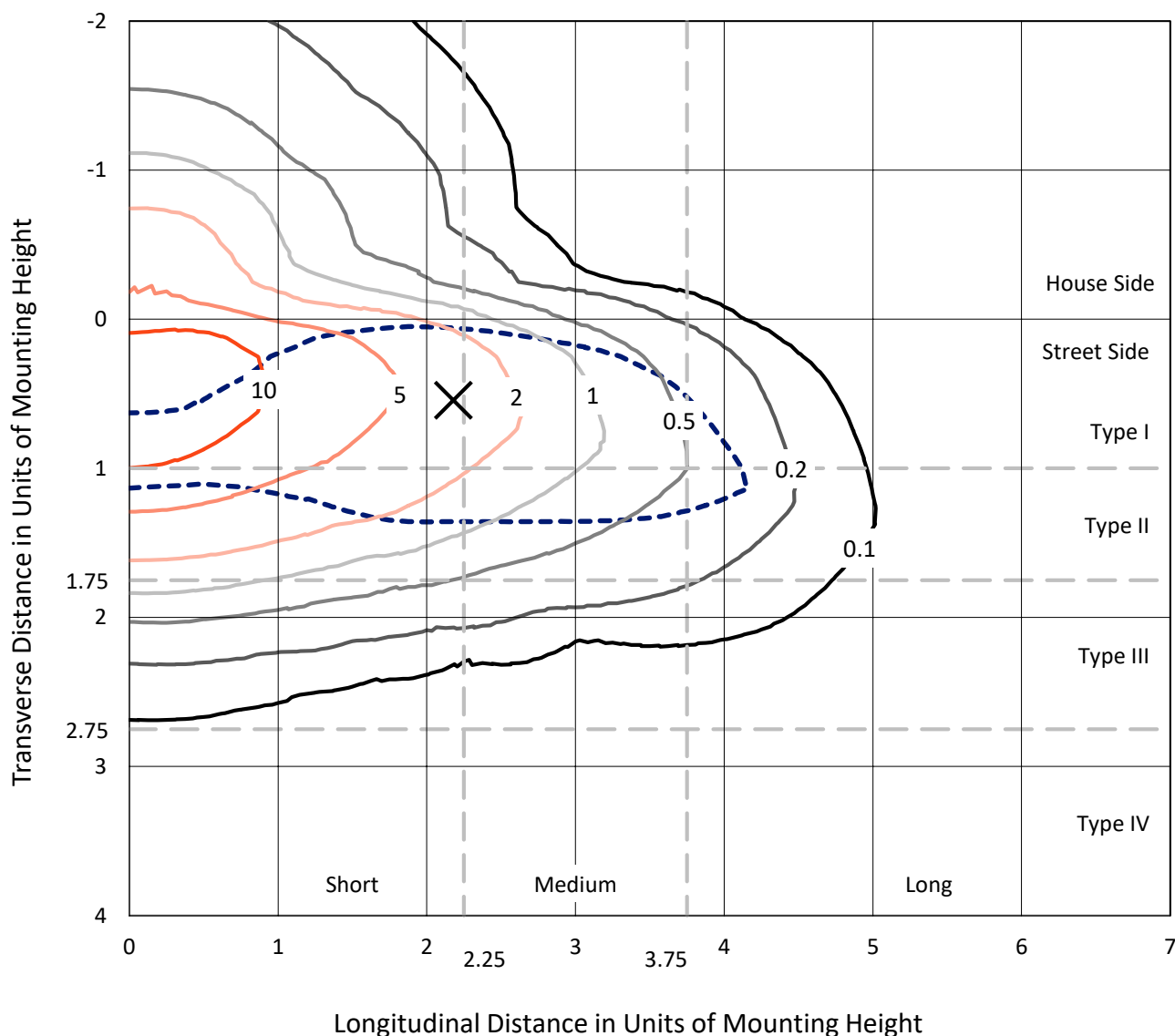
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

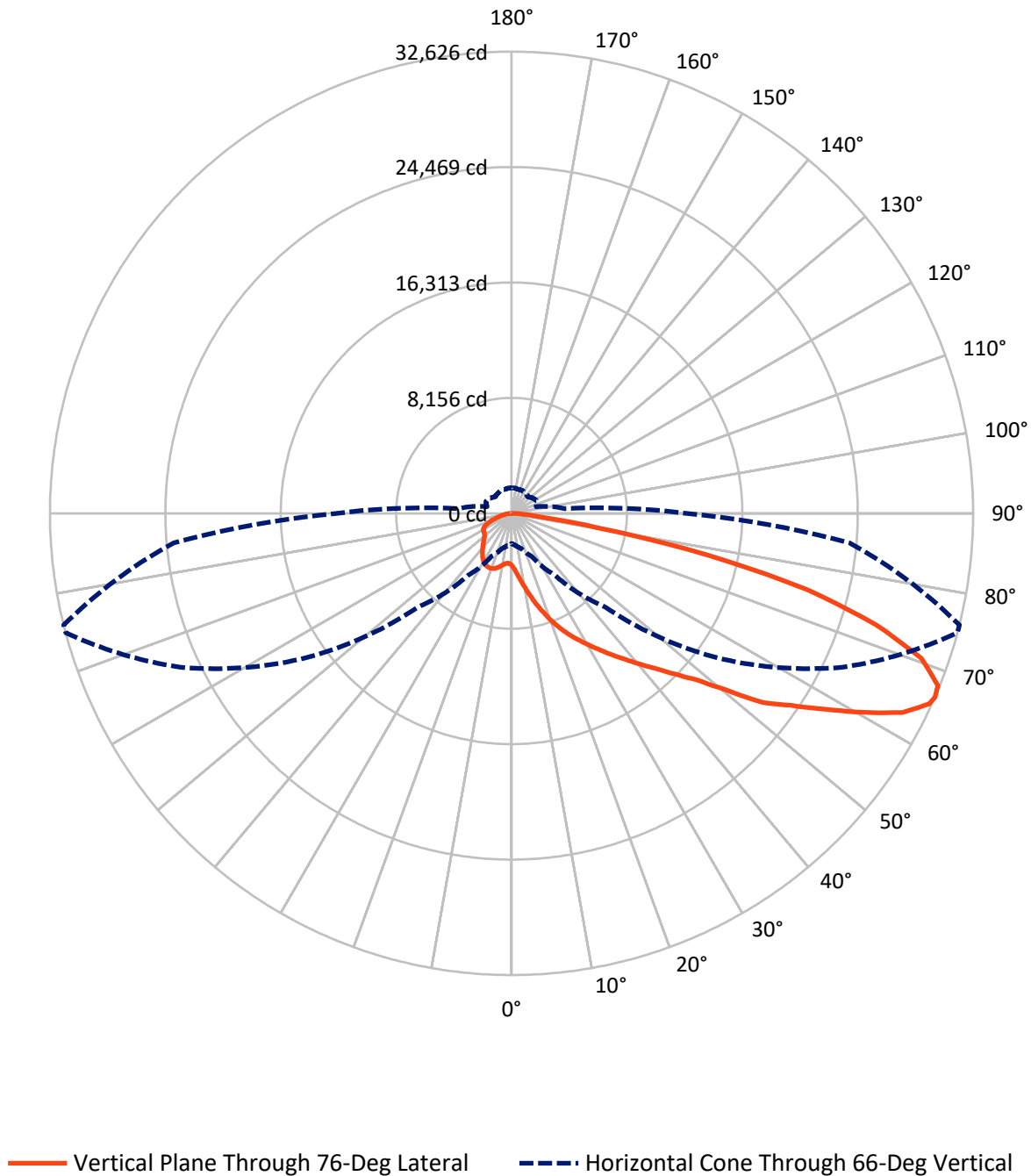


Based on 25 foot mounting height. Maximum calculated value = 15.7 fc

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	6803.3	0.0	6803.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	33628.7	0.0	33628.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	40432.0	0.0	40432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.5	1.1
10°-20°	1763.2	4.4
20°-30°	3426.4	8.5
30°-40°	5592.6	13.8
40°-50°	7640.8	18.9
50°-60°	8900.0	22.0
60°-70°	7979.0	19.7
70°-80°	4032.3	10.0
80°-90°	651.2	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°	40432.0	100.0
0°-180°	40432.0	100.0

Coefficient of Utilization



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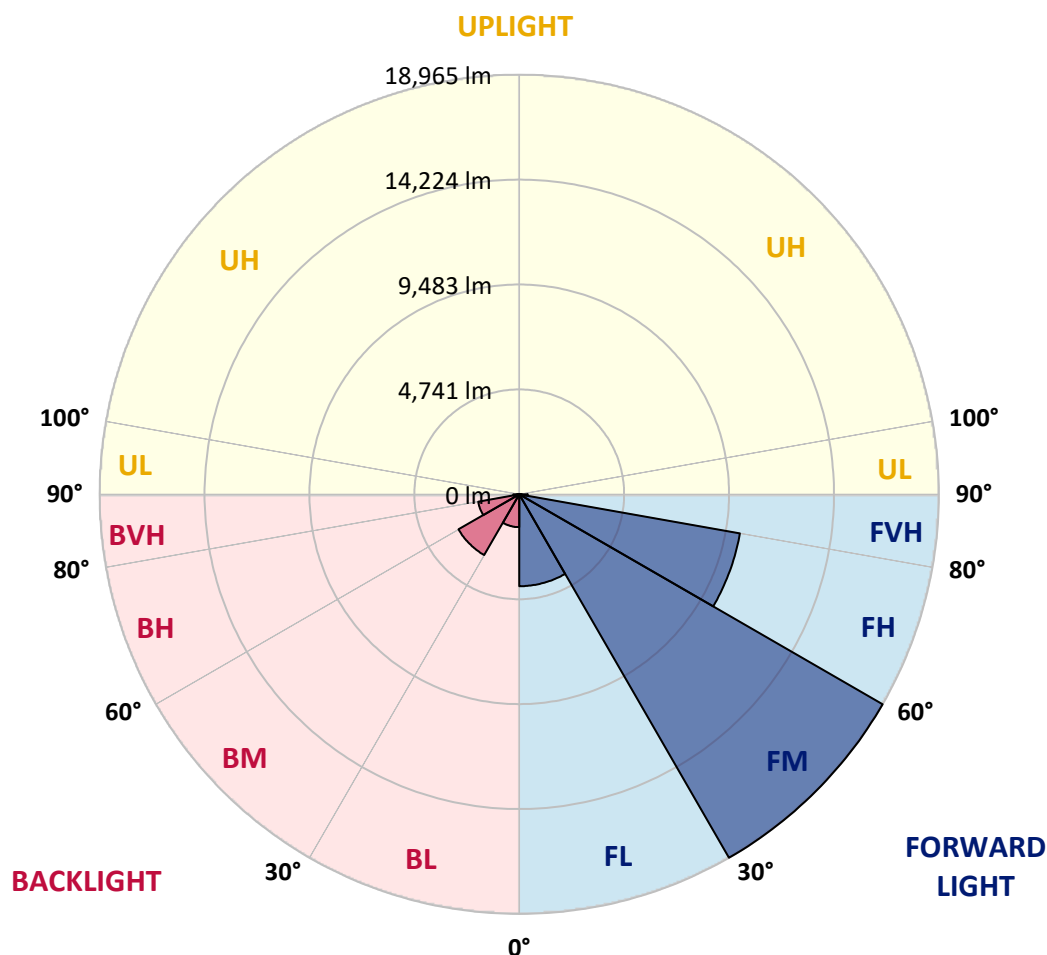
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4152.3	10.3			
FM	(30°-60°)	18965.4	46.9			
FH	(60°-80°)	10126.5	25.0			G4/12000
FVH	(80°-90°)	384.5	1.0			G3/500
BL	(0°-30°)	1483.8	3.7	B3/2500		
BM	(30°-60°)	3168.0	7.8	B3/5000		
BH	(60°-80°)	1884.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	266.6	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4
2.5°	4901.6	4827.5	4820.6	4712.2	4687.5	4480.2	4327.9	4168.7	3987.5	3951.8	3809.0
5°	6296.2	6289.4	6194.6	6017.6	5878.9	5524.8	5174.8	4804.2	4397.9	4332.0	4010.8
7.5°	7550.8	7539.8	7467.1	7276.3	7075.9	6640.7	6141.1	5572.8	4914.0	4816.5	4284.0
10°	8503.4	8499.3	8474.6	8334.6	8164.4	7747.1	7195.3	6419.8	5513.8	5380.7	4625.7
12.5°	9239.1	9247.4	9263.8	9214.4	9133.4	8777.9	8212.4	7317.4	6153.5	6021.7	5006.0
15°	9737.4	9762.1	9847.2	9917.2	9959.7	9741.5	9193.8	8235.7	6870.0	6712.1	5427.3
17.5°	9988.6	10016.0	10162.9	10374.3	10569.2	10547.2	10112.1	9111.5	7557.7	7405.3	5880.3
20°	10205.4	10226.0	10390.7	10644.7	10989.2	11141.6	10897.2	9954.3	8311.2	8130.0	6360.7
22.5°	10834.1	10860.2	10909.6	11053.7	11358.4	11638.5	11520.4	10751.7	9001.7	8832.8	6816.4
25°	12047.5	12079.1	11972.0	11849.8	11907.5	12102.4	12124.4	11479.2	9701.7	9510.9	7306.5
27.5°	13509.3	13554.6	13372.1	13057.8	12783.2	12707.7	12681.7	12075.0	10370.2	10149.2	7791.0
30°	14941.0	15019.2	14781.8	14374.1	13870.3	13516.2	13254.0	12658.3	11029.0	10817.6	8248.1
32.5°	16339.7	16308.1	15963.6	15565.5	14975.3	14532.0	13897.8	13284.2	11770.2	11527.3	8702.4
35°	17297.8	17308.8	16988.9	16516.8	15954.0	15613.6	14759.8	13959.6	12526.5	12302.8	9218.5
37.5°	18113.1	18062.3	17700.0	17259.4	16774.8	16629.3	15768.7	14703.5	13346.0	13101.7	9767.6
40°	18384.9	18325.9	18088.4	17771.3	17382.9	17370.5	16881.9	15546.3	14272.5	14030.9	10386.6
42.5°	18220.2	18144.7	18047.2	17960.8	17841.3	17896.2	17927.8	16534.6	15291.0	15020.6	11103.1
45°	17612.1	17498.2	17566.8	17754.9	18014.3	18324.5	18872.2	17628.6	16431.7	16205.2	11944.6
47.5°	16677.4	16574.4	16788.5	17190.7	17896.2	18681.4	19765.8	18836.5	17793.3	17568.2	13142.9
50°	15362.4	15392.6	15698.7	16430.3	17496.8	18846.1	20866.6	20435.6	19772.6	19562.6	14777.6
52.5°	13204.6	13210.1	14072.1	15273.2	16788.5	18761.0	21477.4	22479.4	22475.3	22221.4	16334.2
55°	11200.6	11322.8	12005.0	13601.3	15641.0	18420.6	21904.3	23473.2	24250.1	23952.3	17785.1
57.5°	9243.2	9314.6	9961.1	11564.3	14003.5	17513.3	22342.2	24666.0	26295.3	26107.3	19588.7
60°	7016.8	7126.7	7795.1	9276.2	11908.9	15903.2	22383.3	25911.0	28740.0	28550.5	21602.3
62.5°	4554.4	4743.8	5369.7	6757.4	9375.0	13587.6	21428.0	26725.0	31056.9	30989.7	23389.5
65°	2617.6	2760.3	3195.5	4266.1	6467.8	10680.4	19156.3	26412.0	32483.1	32444.7	24057.9
66°	2138.5	2227.8	2561.3	3334.1	5336.8	9379.1	17835.9	25751.8	32624.5	32625.9	23981.1
67.5°	1710.3	1750.1	1899.7	2387.0	3938.1	7434.1	15476.3	24295.4	32448.8	32496.8	23485.6
70°	1415.2	1435.8	1482.4	1600.5	2149.5	4483.0	10985.1	20511.1	30685.0	30722.0	21551.5
72.5°	1269.7	1282.0	1299.9	1316.3	1516.7	2505.0	6709.4	16408.3	26903.4	26951.4	18604.5
75°	1150.3	1157.1	1154.4	1155.7	1272.4	1596.4	3467.2	12250.7	21753.3	21657.2	14251.9
77.5°	1010.2	1017.1	1003.4	1006.1	1125.6	1227.1	1725.4	8576.1	14680.2	14002.1	8029.8
80°	853.8	859.3	853.8	863.4	980.1	926.5	1003.4	4824.8	6491.1	6139.7	2855.1
82.5°	645.1	668.5	684.9	723.4	807.1	658.9	671.2	1879.1	1976.6	1881.9	875.7
85°	282.8	344.5	516.1	553.2	606.7	395.3	440.6	765.9	804.4	779.6	318.4
87.5°	74.1	81.0	255.3	321.2	336.3	178.4	229.2	348.6	367.9	348.6	105.7
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°	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4	3692.4
2.5°	3733.5	3666.3	3545.5	3438.4	3357.4	3302.5	3247.6	3220.2	3203.7	3187.2	3190.0
5°	3853.0	3717.1	3509.8	3362.9	3280.6	3228.4	3201.0	3190.0	3183.1	3166.6	3166.6
7.5°	4032.8	3840.6	3555.1	3404.1	3339.6	3299.8	3283.3	3277.8	3269.6	3250.4	3253.1
10°	4259.2	3990.2	3649.8	3502.9	3443.9	3400.0	3376.7	3368.4	3353.3	3331.4	3334.1
12.5°	4525.5	4175.5	3774.7	3621.0	3549.6	3490.6	3452.1	3428.8	3402.7	3373.9	3375.3
15°	4816.5	4377.3	3909.2	3726.7	3629.2	3546.9	3485.1	3445.3	3404.1	3368.4	3367.0
17.5°	5111.6	4572.2	4012.2	3784.3	3652.5	3544.1	3460.4	3398.6	3347.8	3303.9	3299.8
20°	5430.1	4747.9	4069.8	3778.8	3608.6	3479.6	3368.4	3291.5	3235.3	3191.3	3184.5
22.5°	5754.0	4912.6	4079.4	3722.6	3511.2	3353.3	3236.6	3151.5	3093.9	3048.6	3032.1
25°	6050.5	5040.3	4039.6	3614.1	3375.3	3205.1	3091.1	3004.7	2958.0	2904.5	2888.0
27.5°	6320.9	5129.5	3960.0	3475.5	3222.9	3055.5	2948.4	2874.3	2823.5	2782.3	2768.6
30°	6563.9	5177.5	3829.6	3310.8	3066.4	2914.1	2823.5	2772.7	2728.8	2676.6	2667.0
32.5°	6794.5	5177.5	3662.2	3131.0	2911.3	2789.2	2735.6	2704.1	2654.7	2603.9	2590.1
35°	7025.1	5146.0	3464.5	2942.9	2768.6	2699.9	2697.2	2660.1	2584.6	2516.0	2498.2
37.5°	7268.0	5081.4	3242.1	2767.2	2651.9	2660.1	2683.5	2601.1	2494.1	2396.6	2370.5
40°	7542.6	4992.2	3011.5	2614.8	2554.4	2642.3	2646.4	2516.0	2307.4	2218.2	2194.8
42.5°	7865.1	4903.0	2797.4	2480.3	2477.6	2588.8	2576.4	2332.1	2207.2	2161.9	2149.5
45°	8289.3	4852.2	2594.3	2352.7	2417.2	2502.3	2457.0	2230.5	2178.4	2152.3	2141.3
47.5°	8957.7	4878.3	2407.6	2251.1	2356.8	2415.8	2234.6	2189.3	2152.3	2120.7	2109.7
50°	9795.0	4863.2	2256.6	2181.1	2288.2	2325.2	2134.4	2135.8	2116.6	2080.9	2064.4
52.5°	10425.1	4745.2	2159.1	2141.3	2227.8	2164.6	2071.3	2083.6	2074.0	2021.9	2004.0
55°	11033.1	4643.6	2109.7	2126.2	2183.8	1964.2	1997.2	2027.4	2017.8	1967.0	1958.7
57.5°	11789.5	4624.4	2079.5	2130.3	2146.8	1864.0	1925.8	1965.6	1958.7	1936.8	1932.7
60°	12716.0	4629.9	2052.1	2137.2	2105.6	1789.9	1858.5	1909.3	1913.4	1909.3	1906.6
62.5°	13225.2	4480.2	1983.4	2118.0	2032.9	1725.4	1788.5	1862.6	1864.0	1872.3	1870.9
65°	12792.8	4032.8	1855.8	2050.7	1910.7	1671.9	1728.1	1809.1	1788.5	1825.6	1825.6
66°	12372.8	3774.7	1792.6	2006.8	1858.5	1651.3	1708.9	1781.7	1755.6	1806.4	1806.4
67.5°	11514.9	3339.6	1678.7	1913.4	1784.4	1622.4	1687.0	1736.4	1700.7	1776.2	1770.7
70°	9947.4	2583.3	1449.5	1702.1	1662.2	1579.9	1656.8	1645.8	1593.6	1708.9	1687.0
72.5°	8386.7	1962.8	1164.0	1424.8	1476.9	1526.4	1614.2	1530.5	1464.6	1545.6	1497.5
75°	6507.6	1475.6	919.7	1107.7	1247.7	1442.6	1563.4	1397.3	1302.6	1294.4	1268.3
77.5°	3518.0	1013.0	728.9	845.5	991.0	1338.3	1529.1	1254.6	1111.8	1078.9	1058.3
80°	1393.2	658.9	529.8	641.0	693.2	1187.3	1446.7	1088.5	916.9	884.0	852.4
82.5°	575.1	389.8	341.8	429.6	451.6	1015.7	1298.5	892.2	708.3	980.1	1040.4
85°	247.1	214.1	203.1	222.4	255.3	712.4	1033.6	680.8	764.6	682.2	542.2
87.5°	74.1	90.6	86.5	85.1	93.3	170.2	550.4	378.8	561.4	212.8	159.2
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)