

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: P317361

Luminaire Tested: **GAN-SA7B-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317361
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-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 35217 lumens
Efficiency: N/A
Efficacy: 119.4 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

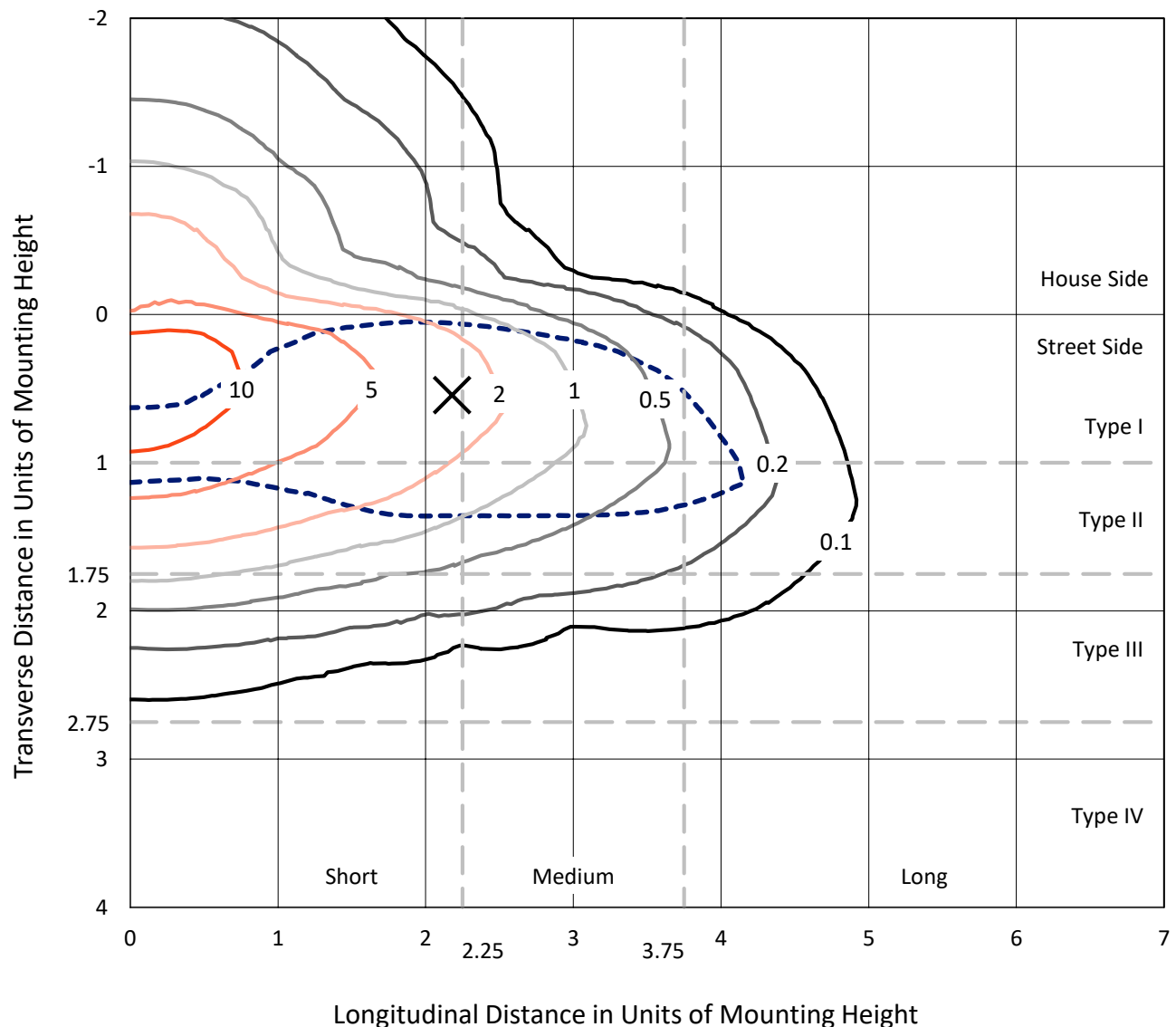


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Iso-Footcandle Lines of Horizontal Illumination

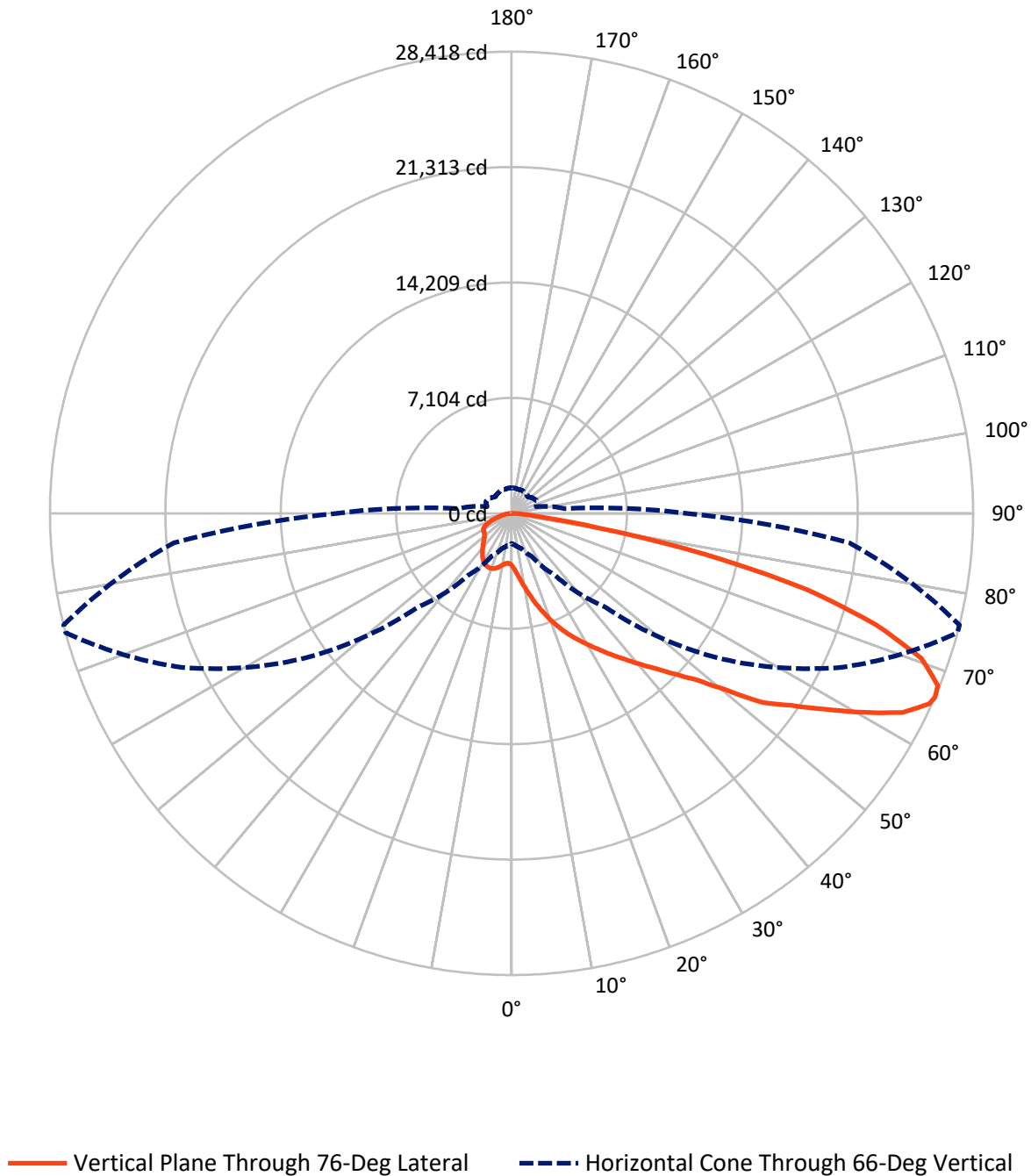
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	5925.8	0.0	5925.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29291.2	0.0	29291.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	35217.0	0.0	35217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	1.1
10°-20°	1535.8	4.4
20°-30°	2984.4	8.5
30°-40°	4871.2	13.8
40°-50°	6655.3	18.9
50°-60°	7752.1	22.0
60°-70°	6949.9	19.7
70°-80°	3512.2	10.0
80°-90°	567.2	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°	35217.0	100.0
0°-180°	35217.0	100.0

Coefficient of Utilization



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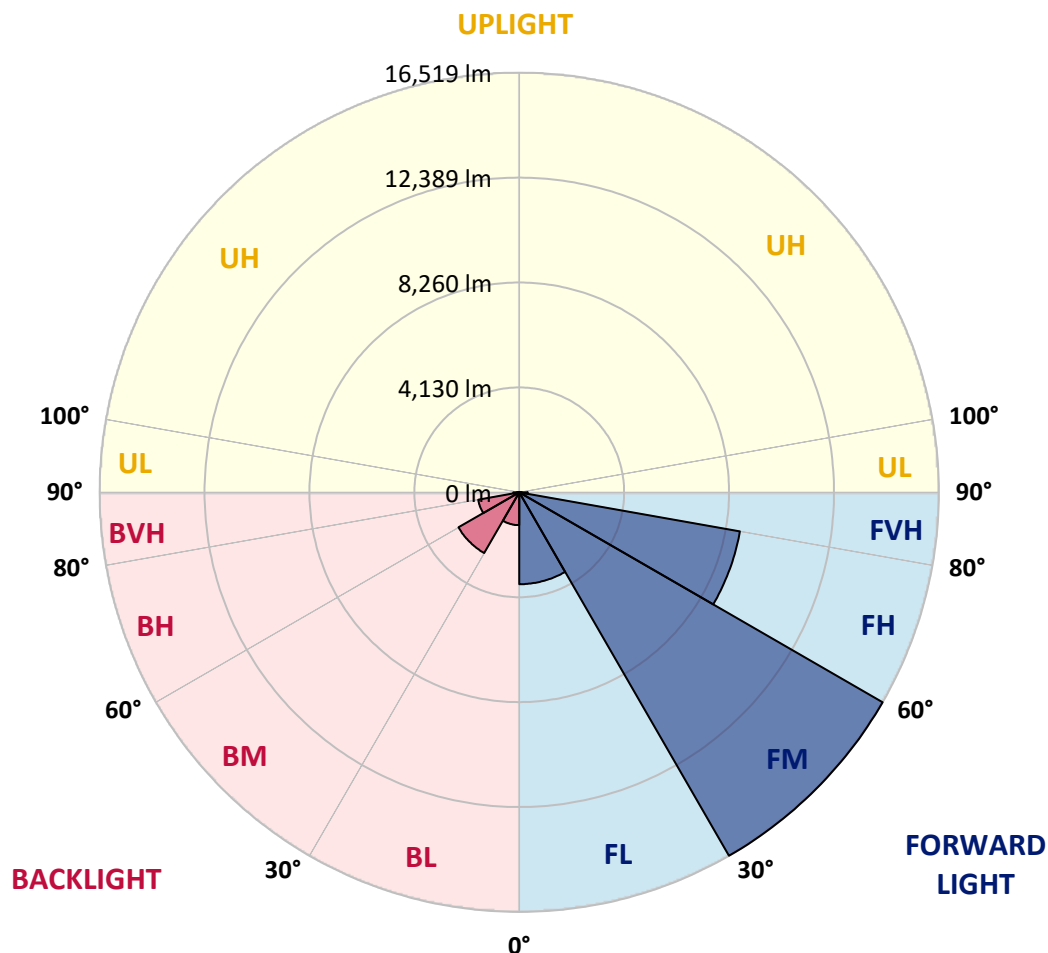
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3616.7	10.3			
FM	(30°-60°)	16519.2	46.9			
FH	(60°-80°)	8820.3	25.0			G4/12000
FVH	(80°-90°)	334.9	1.0			G3/500
BL	(0°-30°)	1292.4	3.7	B3/2500		
BM	(30°-60°)	2759.4	7.8	B3/5000		
BH	(60°-80°)	1641.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	232.2	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°	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1
2.5°	4269.4	4204.8	4198.9	4104.4	4082.9	3902.4	3769.7	3631.0	3473.2	3442.1	3317.7
5°	5484.1	5478.1	5395.6	5241.4	5120.7	4812.2	4507.3	4184.5	3830.6	3773.2	3493.5
7.5°	6576.9	6567.3	6503.9	6337.8	6163.2	5784.2	5349.0	4854.0	4280.2	4195.3	3731.4
10°	7406.6	7403.0	7381.5	7259.6	7111.3	6747.8	6267.2	5591.7	4802.6	4686.7	4029.1
12.5°	8047.4	8054.6	8069.0	8025.9	7955.4	7645.7	7153.1	6373.6	5359.8	5245.0	4360.3
15°	8481.4	8503.0	8577.1	8638.1	8675.1	8485.0	8008.0	7173.5	5983.9	5846.4	4727.3
17.5°	8700.2	8724.1	8852.1	9036.2	9206.0	9186.8	8807.8	7936.3	6582.9	6450.1	5121.9
20°	8889.1	8907.1	9050.5	9271.7	9571.8	9704.5	9491.7	8670.3	7239.2	7081.4	5540.3
22.5°	9436.7	9459.4	9502.5	9628.0	9893.4	10137.3	10034.5	9365.0	7840.6	7693.5	5937.2
25°	10493.6	10521.1	10427.8	10321.4	10371.6	10541.4	10560.5	9998.6	8450.3	8284.2	6364.1
27.5°	11766.9	11806.3	11647.3	11373.5	11134.4	11068.7	11046.0	10517.5	9032.6	8840.1	6786.1
30°	13013.9	13082.0	12875.2	12520.1	12081.3	11772.9	11544.5	11025.6	9606.5	9422.4	7184.2
32.5°	14232.2	14204.7	13904.6	13557.9	13043.8	12657.6	12105.2	11570.8	10252.1	10040.5	7580.0
35°	15066.7	15076.2	14797.7	14386.4	13896.2	13599.7	12856.1	12159.0	10910.9	10716.0	8029.5
37.5°	15776.9	15732.6	15417.0	15033.2	14611.2	14484.4	13734.8	12807.0	11624.6	11411.8	8507.7
40°	16013.6	15962.2	15755.3	15479.2	15140.8	15130.0	14704.4	13541.1	12431.6	12221.2	9046.9
42.5°	15870.1	15804.4	15719.5	15644.1	15540.1	15588.0	15615.5	14401.9	13318.7	13083.2	9671.0
45°	15340.5	15241.2	15301.0	15464.8	15690.8	15961.0	16438.0	15354.8	14312.3	14115.0	10403.9
47.5°	14526.3	14436.6	14623.1	14973.4	15588.0	16271.8	17216.3	16406.9	15498.3	15302.2	11447.7
50°	13380.9	13407.2	13673.8	14311.1	15240.0	16415.3	18175.2	17799.8	17222.3	17039.4	12871.6
52.5°	11501.5	11506.2	12257.1	13303.2	14623.1	16341.2	18707.2	19580.0	19576.4	19355.2	14227.4
55°	9755.9	9862.3	10456.5	11847.0	13623.6	16044.7	19079.0	20445.6	21122.3	20862.8	15491.1
57.5°	8051.0	8113.2	8676.3	10072.7	12197.3	15254.4	19460.4	21484.5	22903.7	22739.9	17062.1
60°	6111.8	6207.4	6789.7	8079.7	10372.8	13852.0	19496.3	22568.9	25033.0	24868.0	18816.0
62.5°	3966.9	4131.9	4677.1	5885.8	8165.8	11835.0	18664.2	23277.9	27051.2	26992.6	20372.7
65°	2280.0	2404.3	2783.3	3715.9	5633.6	9302.8	16685.5	23005.3	28293.4	28259.9	20954.9
66°	1862.7	1940.4	2230.9	2904.1	4648.4	8169.4	15535.3	22430.2	28416.5	28417.7	20888.0
67.5°	1489.7	1524.4	1654.7	2079.1	3430.1	6475.3	13480.1	21161.7	28263.5	28305.3	20456.3
70°	1232.6	1250.6	1291.2	1394.0	1872.3	3904.8	9568.2	17865.5	26727.2	26759.4	18771.8
72.5°	1105.9	1116.7	1132.2	1146.6	1321.1	2181.9	5844.0	14291.9	23433.3	23475.2	16204.9
75°	1001.9	1007.9	1005.5	1006.7	1108.3	1390.5	3020.0	10670.5	18947.5	18863.8	12413.7
77.5°	879.9	885.9	874.0	876.4	980.4	1068.8	1502.8	7470.0	12786.7	12196.1	6994.1
80°	743.6	748.4	743.6	752.0	853.6	807.0	874.0	4202.5	5653.9	5347.8	2486.8
82.5°	561.9	582.2	596.6	630.1	703.0	573.9	584.6	1636.7	1721.6	1639.1	762.8
85°	246.3	300.1	449.5	481.8	528.4	344.3	383.8	667.1	700.6	679.1	277.4
87.5°	64.6	70.5	222.4	279.8	292.9	155.4	199.7	303.7	320.4	303.7	92.1
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°	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1	3216.1
2.5°	3252.0	3193.4	3088.2	2994.9	2924.4	2876.6	2828.7	2804.8	2790.5	2776.1	2778.5
5°	3356.0	3237.6	3057.1	2929.2	2857.4	2812.0	2788.1	2778.5	2772.5	2758.2	2758.2
7.5°	3512.6	3345.2	3096.5	2965.0	2908.8	2874.2	2859.8	2855.0	2847.9	2831.1	2833.5
10°	3709.9	3475.5	3179.0	3051.1	2999.7	2961.4	2941.1	2933.9	2920.8	2901.7	2904.1
12.5°	3941.8	3637.0	3287.8	3153.9	3091.8	3040.4	3006.9	2986.6	2963.8	2938.7	2939.9
15°	4195.3	3812.7	3405.0	3246.0	3161.1	3089.4	3035.6	3000.9	2965.0	2933.9	2932.8
17.5°	4452.3	3982.5	3494.7	3296.2	3181.4	3087.0	3014.1	2960.3	2916.0	2877.8	2874.2
20°	4729.7	4135.5	3544.9	3291.4	3143.2	3030.8	2933.9	2867.0	2818.0	2779.7	2773.7
22.5°	5011.9	4279.0	3553.3	3242.4	3058.3	2920.8	2819.2	2745.0	2694.8	2655.4	2641.0
25°	5270.1	4390.2	3518.6	3148.0	2939.9	2791.7	2692.4	2617.1	2576.5	2529.8	2515.5
27.5°	5505.6	4467.9	3449.2	3027.2	2807.2	2661.4	2568.1	2503.5	2459.3	2423.4	2411.5
30°	5717.3	4509.7	3335.7	2883.7	2670.9	2538.2	2459.3	2415.1	2376.8	2331.4	2323.0
32.5°	5918.1	4509.7	3189.8	2727.1	2535.8	2429.4	2382.8	2355.3	2312.2	2268.0	2256.1
35°	6119.0	4482.2	3017.6	2563.3	2411.5	2351.7	2349.3	2317.0	2251.3	2191.5	2176.0
37.5°	6330.6	4426.0	2824.0	2410.3	2309.9	2317.0	2337.4	2265.6	2172.4	2087.5	2064.8
40°	6569.7	4348.3	2623.1	2277.6	2225.0	2301.5	2305.1	2191.5	2009.8	1932.1	1911.7
42.5°	6850.7	4270.6	2436.6	2160.4	2158.0	2254.9	2244.1	2031.3	1922.5	1883.0	1872.3
45°	7220.1	4226.4	2259.6	2049.2	2105.4	2179.5	2140.1	1942.8	1897.4	1874.7	1865.1
47.5°	7802.3	4249.1	2097.0	1960.7	2052.8	2104.2	1946.4	1906.9	1874.7	1847.2	1837.6
50°	8531.6	4235.9	1965.5	1899.8	1993.0	2025.3	1859.1	1860.3	1843.6	1812.5	1798.2
52.5°	9080.4	4133.1	1880.6	1865.1	1940.4	1885.4	1804.1	1814.9	1806.5	1761.1	1745.5
55°	9610.1	4044.6	1837.6	1852.0	1902.2	1710.9	1739.6	1765.9	1757.5	1713.3	1706.1
57.5°	10268.8	4027.9	1811.3	1855.5	1869.9	1623.6	1677.4	1712.1	1706.1	1687.0	1683.4
60°	11075.8	4032.7	1787.4	1861.5	1834.0	1559.0	1618.8	1663.0	1666.6	1663.0	1660.7
62.5°	11519.4	3902.4	1727.6	1844.8	1770.7	1502.8	1557.8	1622.4	1623.6	1630.8	1629.6
65°	11142.8	3512.6	1616.4	1786.2	1664.2	1456.2	1505.2	1575.8	1557.8	1590.1	1590.1
66°	10776.9	3287.8	1561.4	1747.9	1618.8	1438.3	1488.5	1551.9	1529.1	1573.4	1573.4
67.5°	10029.7	2908.8	1462.2	1666.6	1554.3	1413.2	1469.4	1512.4	1481.3	1547.1	1542.3
70°	8664.4	2250.1	1262.5	1482.5	1447.8	1376.1	1443.1	1433.5	1388.1	1488.5	1469.4
72.5°	7305.0	1709.7	1013.9	1241.0	1286.4	1329.5	1406.0	1333.1	1275.7	1346.2	1304.4
75°	5668.2	1285.2	801.0	964.8	1086.8	1256.6	1361.8	1217.1	1134.6	1127.4	1104.7
77.5°	3064.3	882.3	634.9	736.5	863.2	1165.7	1331.9	1092.8	968.4	939.7	921.8
80°	1213.5	573.9	461.5	558.3	603.8	1034.2	1260.1	948.1	798.6	770.0	742.5
82.5°	500.9	339.5	297.7	374.2	393.3	884.7	1131.0	777.1	616.9	853.6	906.2
85°	215.2	186.5	176.9	193.7	222.4	620.5	900.3	593.0	665.9	594.2	472.3
87.5°	64.6	78.9	75.3	74.1	81.3	148.3	479.4	330.0	489.0	185.3	138.7
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)