

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: P320939

Luminaire Tested: **GAN-SA5D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320939
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-SA5D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36231 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

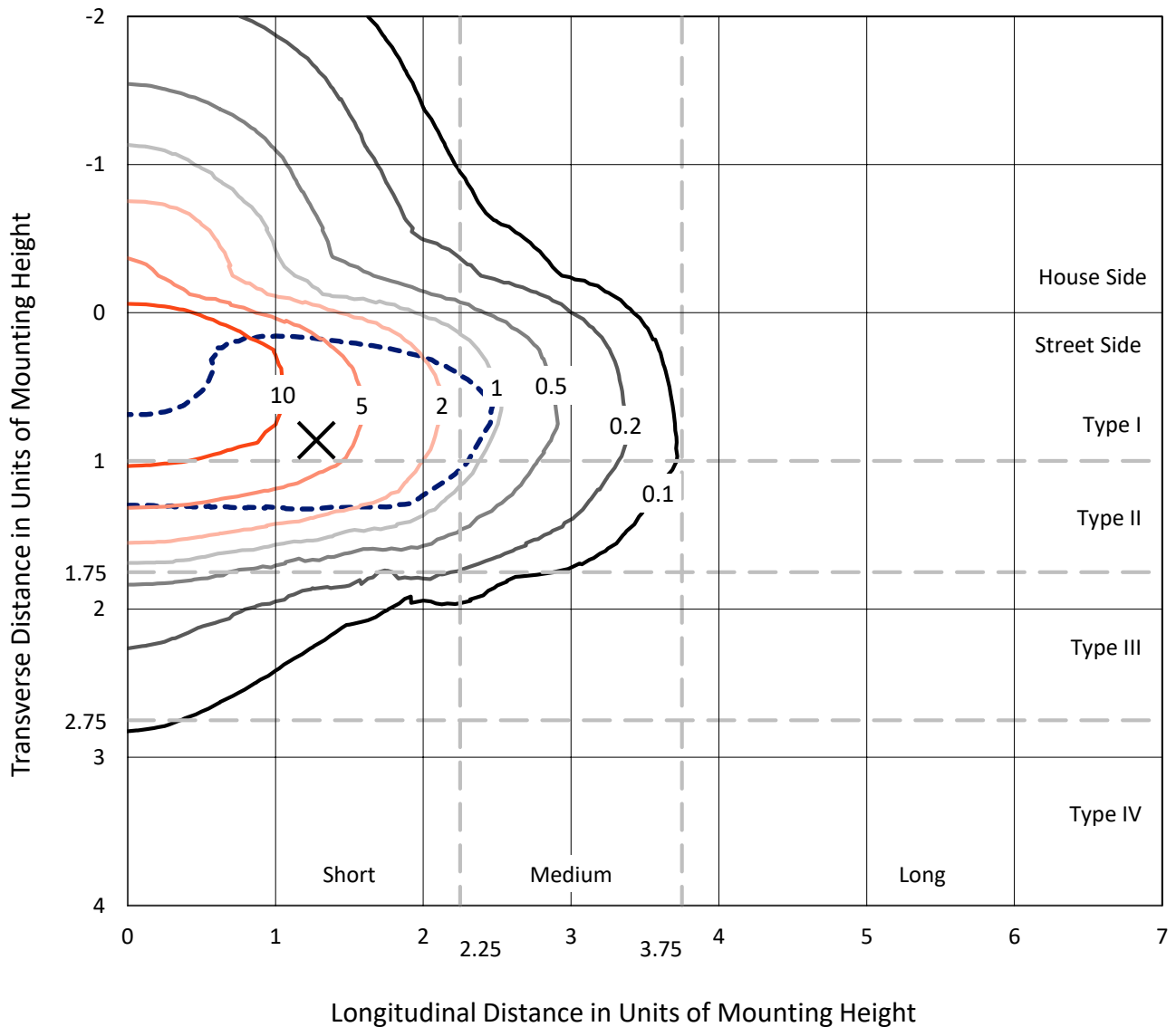
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

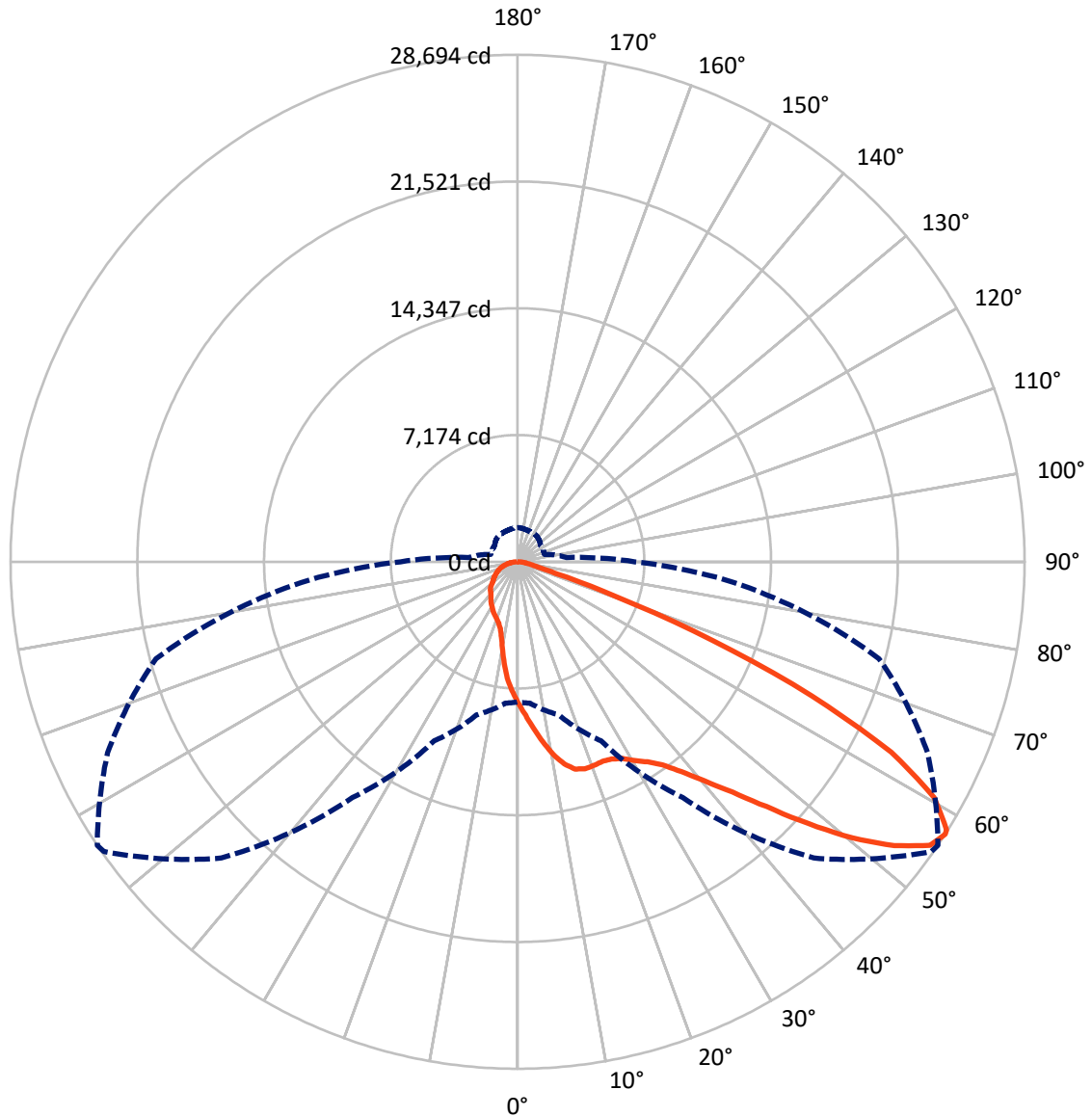
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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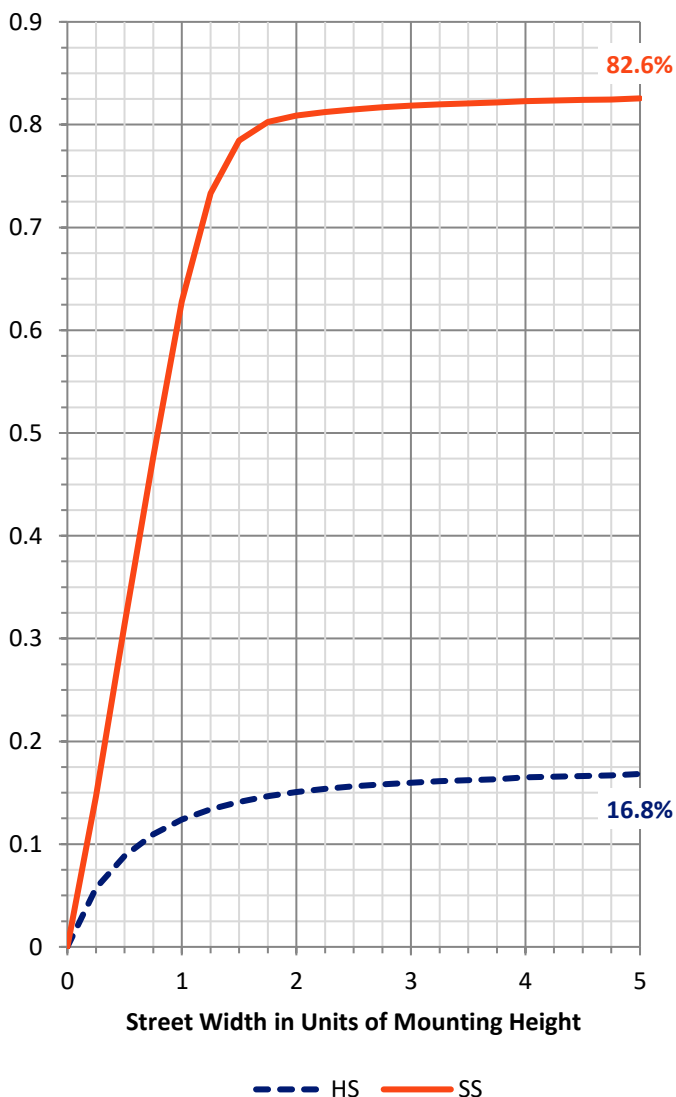
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6245.5	0.0	6245.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	29985.6	0.0	29985.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	36231.0	0.0	36231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.7	2.1
10°-20°	2170.3	6.0
20°-30°	3535.0	9.8
30°-40°	5284.5	14.6
40°-50°	8015.4	22.1
50°-60°	8983.9	24.8
60°-70°	5306.2	14.6
70°-80°	1738.5	4.8
80°-90°	429.5	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°	36231.0	100.0
0°-180°	36231.0	100.0

Coefficient of Utilization

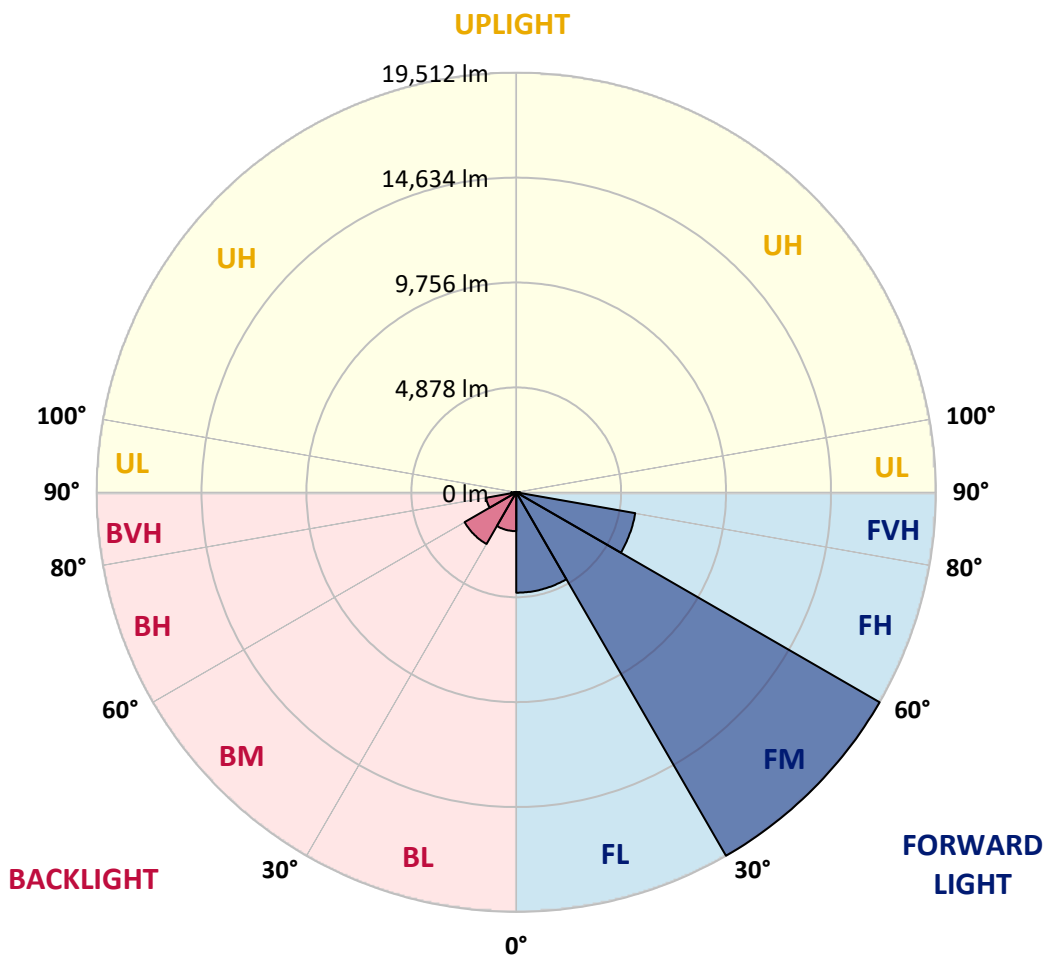


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4667.1	12.9			
FM (30°-60°)	19511.6	53.9			
FH (60°-80°)	5617.7	15.5			G3/7500
FVH (80°-90°)	189.1	0.5			G2/225
BL (0°-30°)	1805.9	5.0	B3/2500		
BM (30°-60°)	2772.1	7.7	B3/5000		
BH (60°-80°)	1427.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	240.4	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°	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1
2.5°	9227.7	9312.3	9275.0	9145.5	9045.9	8905.2	8748.3	8701.0	8535.4	8349.8	8127.0
5°	10688.2	10645.9	10584.8	10383.1	10170.2	9922.4	9529.0	9466.7	9098.2	8678.6	8235.3
7.5°	11519.9	11516.2	11480.1	11361.8	11167.6	10843.8	10369.4	10296.0	9739.4	9064.5	8377.2
10°	11399.2	11390.4	11450.2	11573.5	11632.0	11564.8	11165.1	11091.6	10408.0	9491.6	8541.6
12.5°	10713.1	10718.1	10814.0	11072.9	11425.3	11848.7	11783.9	11747.8	11101.6	9974.7	8740.8
15°	10178.9	10190.1	10266.1	10491.5	10907.3	11675.6	12159.9	12172.4	11772.7	10507.7	8973.7
17.5°	9944.9	9968.5	10003.4	10161.5	10542.5	11330.7	12249.6	12316.8	12360.4	11060.5	9197.8
20°	10019.6	10042.0	10051.9	10152.8	10465.3	11121.5	12187.3	12308.1	12811.1	11581.0	9421.9
22.5°	10354.5	10368.2	10374.4	10400.6	10643.4	11181.3	12146.2	12273.2	13137.4	12047.9	9591.2
25°	10909.8	10899.9	10860.0	10826.4	10989.5	11417.8	12240.9	12361.7	13402.6	12471.2	9702.1
27.5°	11574.7	11562.3	11485.1	11392.9	11486.3	11786.4	12513.6	12609.4	13640.4	12867.2	9758.1
30°	12372.9	12340.5	12194.8	12085.2	12121.3	12339.2	12963.0	13050.2	14007.7	13316.7	9812.9
32.5°	13295.5	13260.6	13050.2	12868.4	12868.4	13050.2	13426.2	13498.5	14319.0	13824.7	9901.3
35°	14451.0	14407.4	14133.5	13828.4	13742.5	13834.6	14057.5	14108.6	14879.3	14464.7	10061.9
37.5°	15813.2	15754.6	15399.8	14991.4	14803.4	14798.4	14959.0	15063.6	15774.6	15305.1	10334.6
40°	17179.1	17138.0	16827.9	16506.7	16138.1	16019.8	16267.6	16300.0	16945.0	16348.6	10683.2
42.5°	18234.9	18227.5	18170.2	18212.5	17835.2	17596.2	17790.4	17816.6	18374.4	17477.9	11054.3
45°	18792.7	18805.2	19082.9	19698.0	19837.4	19663.1	19759.0	19766.4	20008.0	18617.2	11394.2
47.5°	18345.7	18410.5	19112.7	20488.6	21630.4	22209.4	22050.0	22142.1	21591.8	19595.9	11660.6
50°	16603.8	16683.5	17878.8	20136.2	22467.1	24673.5	24590.1	24568.9	22869.3	20313.1	11805.1
52.5°	14446.0	14508.3	15494.4	18304.7	21853.3	26035.7	26801.4	26691.9	24004.9	20849.7	11832.5
55°	11160.1	11257.2	12202.3	14649.0	19370.5	25515.2	28427.6	28329.2	25039.6	21131.1	11800.1
57°	7934.0	8036.1	8974.9	11180.0	16295.0	23713.5	28589.4	28694.0	25598.6	21178.4	11836.2
57.5°	7079.8	7184.4	8114.5	10256.1	15336.3	23062.3	28450.0	28624.3	25699.5	21170.9	11856.1
60°	3564.8	3604.7	4197.3	5725.1	9694.6	18644.6	26630.8	27080.3	25790.4	20804.9	11942.0
62.5°	2216.3	2187.7	2169.0	2637.2	4716.6	12364.1	22876.8	23742.1	24050.9	19918.3	11734.1
65°	1948.6	1895.1	1689.6	1652.3	2083.1	6005.3	17227.6	18304.7	20334.2	18521.3	11238.5
67.5°	1830.3	1778.0	1546.5	1407.0	1408.2	2380.7	10695.7	11908.4	15840.5	16159.3	10069.4
70°	1708.3	1661.0	1444.4	1280.0	1199.1	1318.6	4920.8	5840.9	10325.9	12701.6	8415.8
72.5°	1551.4	1519.1	1313.6	1144.3	1058.4	987.4	1883.9	2225.0	5977.9	8530.4	5844.6
75°	1387.1	1357.2	1181.6	1019.8	915.2	777.0	1060.9	1143.0	3036.9	4364.2	2877.5
77.5°	1206.5	1189.1	1050.9	901.5	818.1	643.7	750.8	790.7	1302.4	1871.4	1443.1
80°	960.0	993.6	918.9	803.1	725.9	515.5	531.7	557.8	758.3	913.9	819.3
82.5°	625.1	683.6	719.7	652.4	597.7	405.9	382.3	393.5	494.3	557.8	356.1
85°	260.2	292.6	473.1	427.1	397.2	296.3	256.5	261.5	306.3	317.5	145.7
87.5°	115.8	123.3	207.9	195.5	168.1	102.1	109.6	119.5	163.1	154.4	56.0
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°	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1	8036.1
2.5°	8043.5	7938.9	7759.6	7561.7	7399.8	7270.3	7139.6	7049.9	6945.3	6889.3	6860.7
5°	8049.8	7844.3	7467.0	7079.8	6733.7	6417.4	6116.1	5884.5	5667.8	5550.8	5518.4
7.5°	8075.9	7767.1	7157.0	6519.5	5904.4	5342.9	4909.5	4638.1	4442.6	4355.5	4330.6
10°	8097.1	7676.2	6773.5	5829.7	4993.0	4423.9	4087.8	3935.9	3868.6	3857.4	3846.2
12.5°	8146.9	7582.8	6370.1	5110.0	4284.5	3891.0	3774.0	3764.0	3782.7	3810.1	3810.1
15°	8225.3	7490.7	5909.4	4492.4	3833.8	3695.5	3719.2	3774.0	3825.0	3867.4	3873.6
17.5°	8282.6	7377.4	5413.8	3998.1	3593.4	3630.8	3715.5	3792.7	3845.0	3886.1	3889.8
20°	8323.7	7201.8	4884.6	3620.8	3455.2	3571.0	3676.9	3745.4	3781.5	3822.5	3828.8
22.5°	8302.5	6966.5	4415.2	3350.6	3343.2	3483.9	3584.7	3666.9	3639.5	3599.7	3625.8
25°	8200.4	6642.8	3932.1	3148.9	3224.9	3366.8	3491.3	3436.6	3344.4	3327.0	3336.9
27.5°	8018.6	6229.4	3485.1	2962.2	3087.9	3258.5	3251.0	3196.2	3163.9	3141.5	3155.2
30°	7823.2	5781.1	3094.1	2799.1	2936.0	3076.7	3048.1	3046.8	3014.5	2978.4	2995.8
32.5°	7630.2	5330.4	2784.1	2664.6	2821.5	2840.1	2902.4	2921.1	2857.6	2781.6	2776.6
35°	7462.1	4904.6	2548.8	2542.6	2683.3	2685.7	2776.6	2750.5	2592.4	2513.9	2513.9
37.5°	7336.3	4480.0	2369.5	2433.0	2501.5	2566.2	2612.3	2504.0	2477.8	2434.2	2433.0
40°	7281.5	4106.4	2257.4	2349.6	2373.2	2455.4	2337.1	2379.4	2391.9	2369.5	2369.5
42.5°	7224.2	3781.5	2160.3	2286.1	2282.3	2271.1	2211.4	2266.1	2315.9	2317.2	2313.5
45°	7167.0	3501.3	2074.4	2150.3	2202.6	2081.9	2093.1	2151.6	2221.3	2246.2	2246.2
47.5°	7103.5	3279.7	1995.9	2007.1	2088.1	2007.1	1998.4	2043.3	2125.4	2165.3	2174.0
50°	6964.0	3080.5	1906.3	1881.4	1903.8	1931.2	1938.7	1959.8	2050.7	2114.2	2129.2
52.5°	6771.0	2902.4	1791.7	1765.6	1765.6	1868.9	1903.8	1910.0	1987.2	2063.2	2078.1
55°	6610.4	2789.1	1673.5	1668.5	1663.5	1802.9	1862.7	1872.7	1926.2	1986.0	1993.5
57°	6621.6	2780.4	1582.6	1587.5	1586.3	1735.7	1824.1	1845.3	1872.7	1923.7	1932.4
57.5°	6627.8	2786.6	1562.6	1565.1	1563.9	1717.0	1812.9	1836.6	1857.7	1911.3	1920.0
60°	6721.2	2802.8	1481.7	1454.3	1460.5	1617.4	1749.4	1779.3	1793.0	1864.0	1875.2
62.5°	6583.0	2730.6	1417.0	1351.0	1351.0	1512.8	1661.0	1708.3	1729.5	1825.4	1844.0
65°	6182.1	2527.6	1341.0	1233.9	1246.4	1408.2	1555.2	1632.4	1664.7	1784.3	1804.2
67.5°	5563.2	2292.3	1260.1	1129.3	1141.8	1298.7	1445.6	1529.0	1580.1	1739.4	1755.6
70°	4757.6	2004.7	1150.5	1018.5	1033.5	1179.1	1316.1	1410.7	1486.7	1697.1	1702.1
72.5°	3507.5	1643.6	997.3	896.5	912.7	1039.7	1185.4	1294.9	1397.0	1591.3	1588.8
75°	2085.6	1285.0	828.0	773.2	784.4	902.7	1067.1	1200.3	1353.5	1550.2	1573.8
77.5°	1265.1	967.5	674.9	647.5	661.2	781.9	982.4	1124.4	1334.8	1461.8	1454.3
80°	764.5	691.0	539.1	521.7	535.4	668.6	908.9	1067.1	1166.7	1248.9	1248.9
82.5°	399.7	422.1	396.0	382.3	400.9	542.9	826.8	931.4	1031.0	885.3	826.8
85°	163.1	220.4	240.3	239.1	250.3	376.0	713.5	796.9	664.9	631.3	646.2
87.5°	54.8	93.4	117.0	100.9	105.8	236.6	494.3	384.7	457.0	318.8	302.6
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)