

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: P317386

Luminaire Tested: **GAN-SA2A-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317386  
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-SA2A-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9046 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

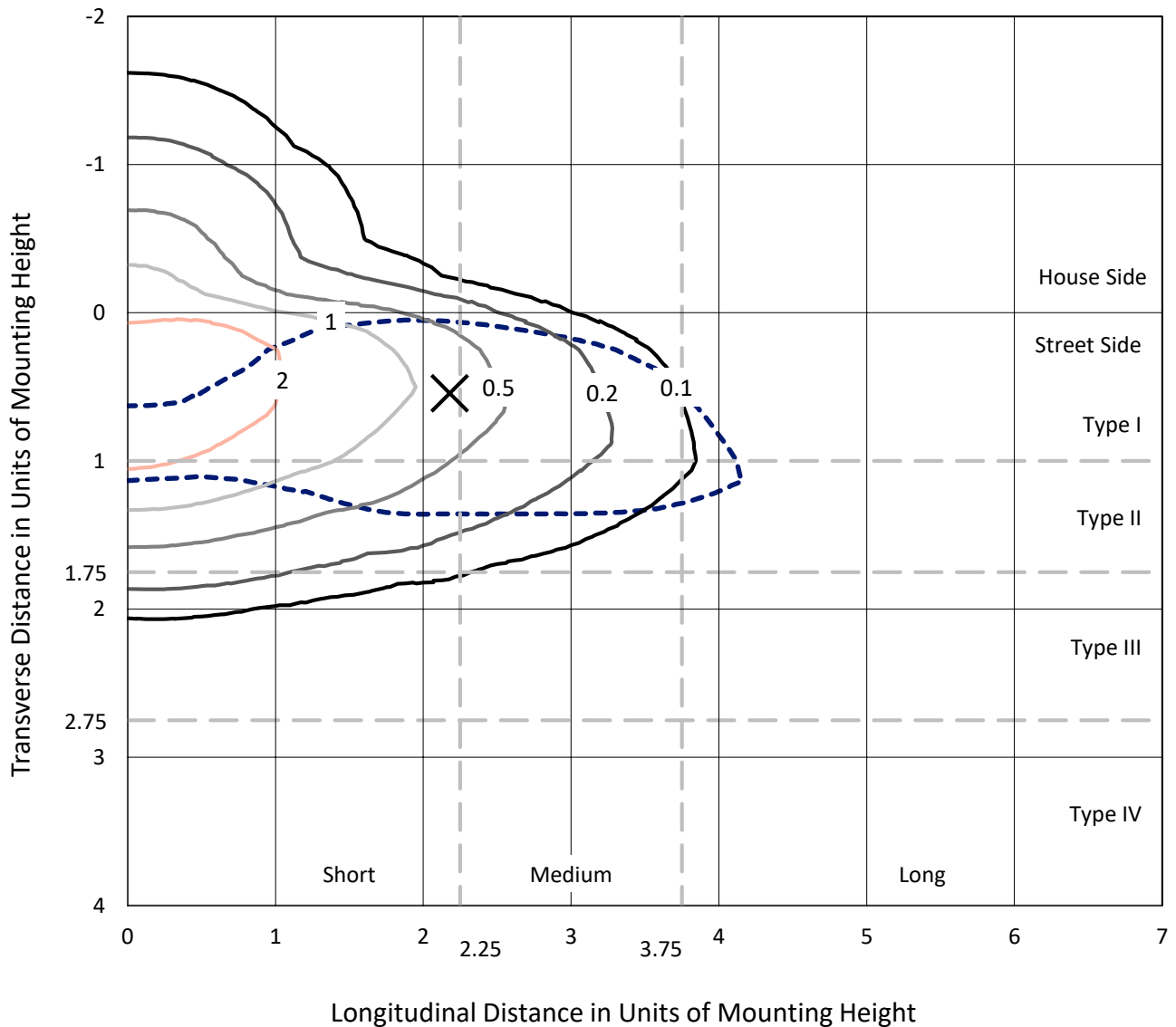
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

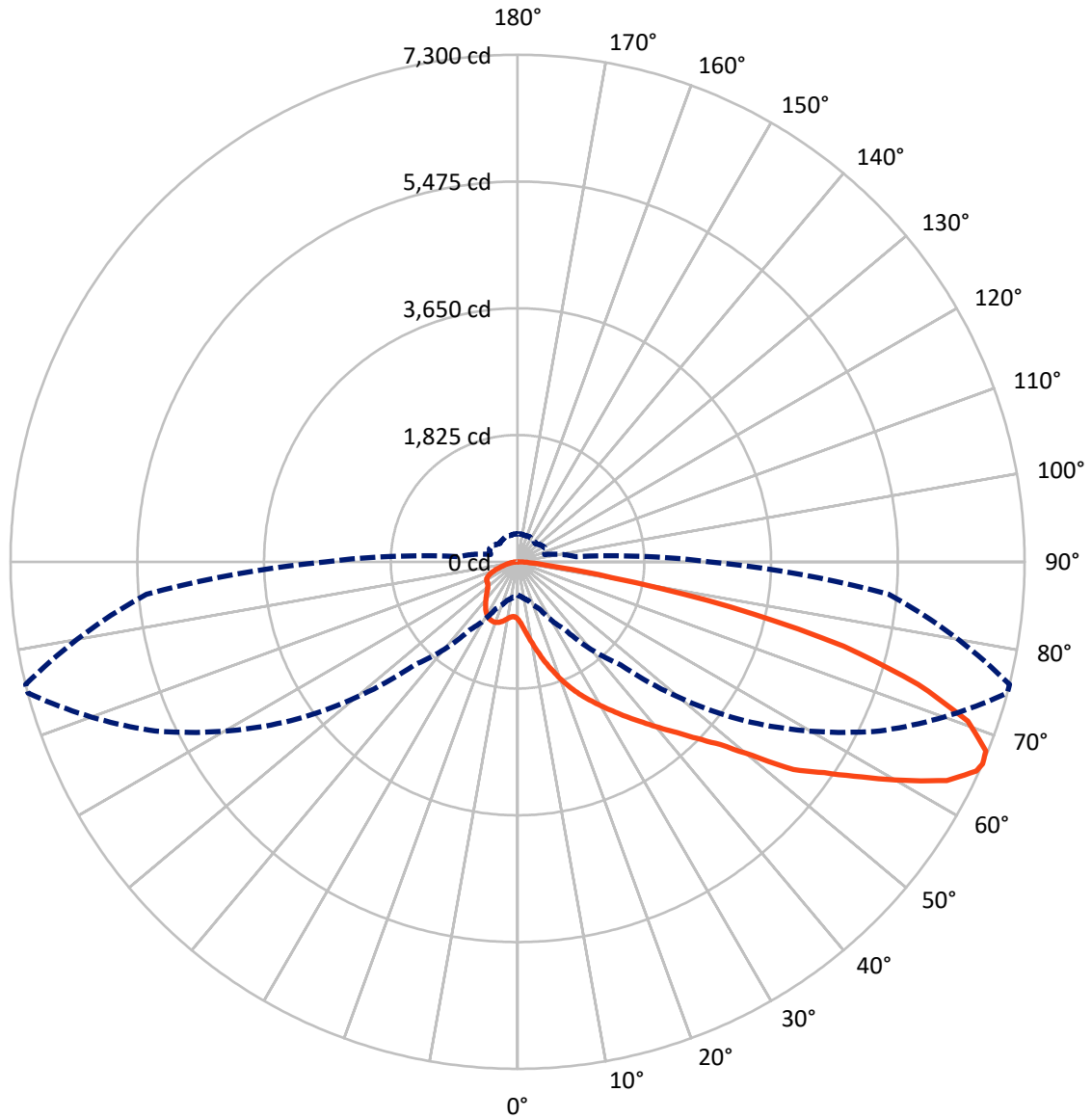
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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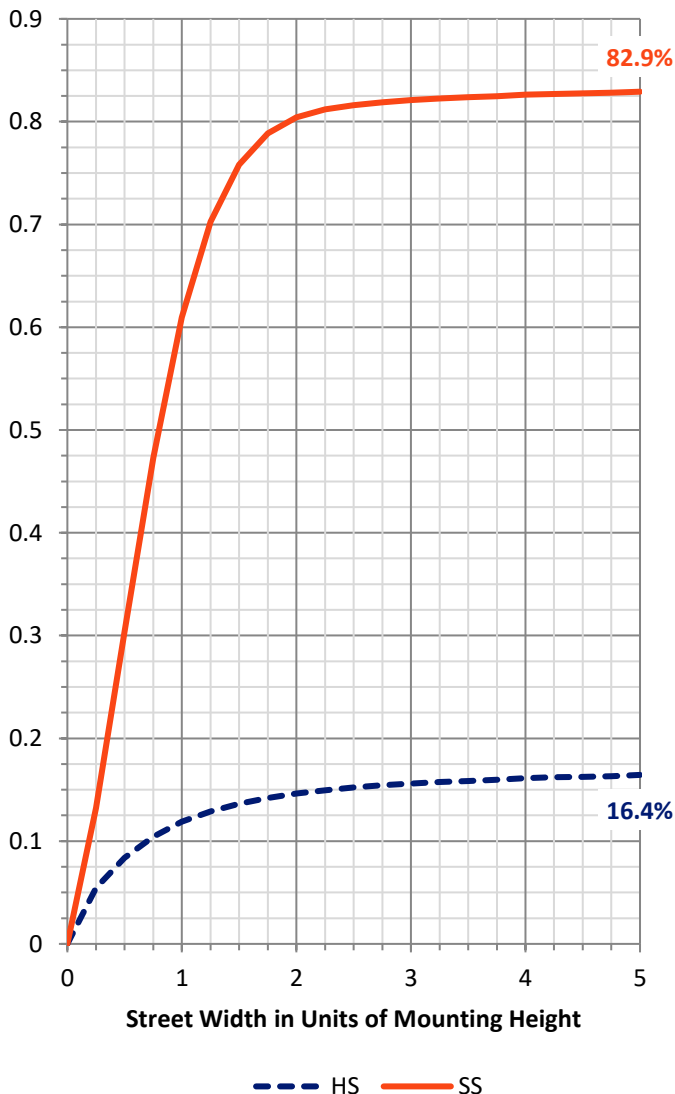
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1522.1	0.0	1522.1
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	7523.9	0.0	7523.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	9046.0	0.0	9046.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.9	1.1
10°-20°	394.5	4.4
20°-30°	766.6	8.5
30°-40°	1251.3	13.8
40°-50°	1709.5	18.9
50°-60°	1991.2	22.0
60°-70°	1785.2	19.7
70°-80°	902.2	10.0
80°-90°	145.7	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°	9046.0	100.0
0°-180°	9046.0	100.0

**Coefficient of Utilization**

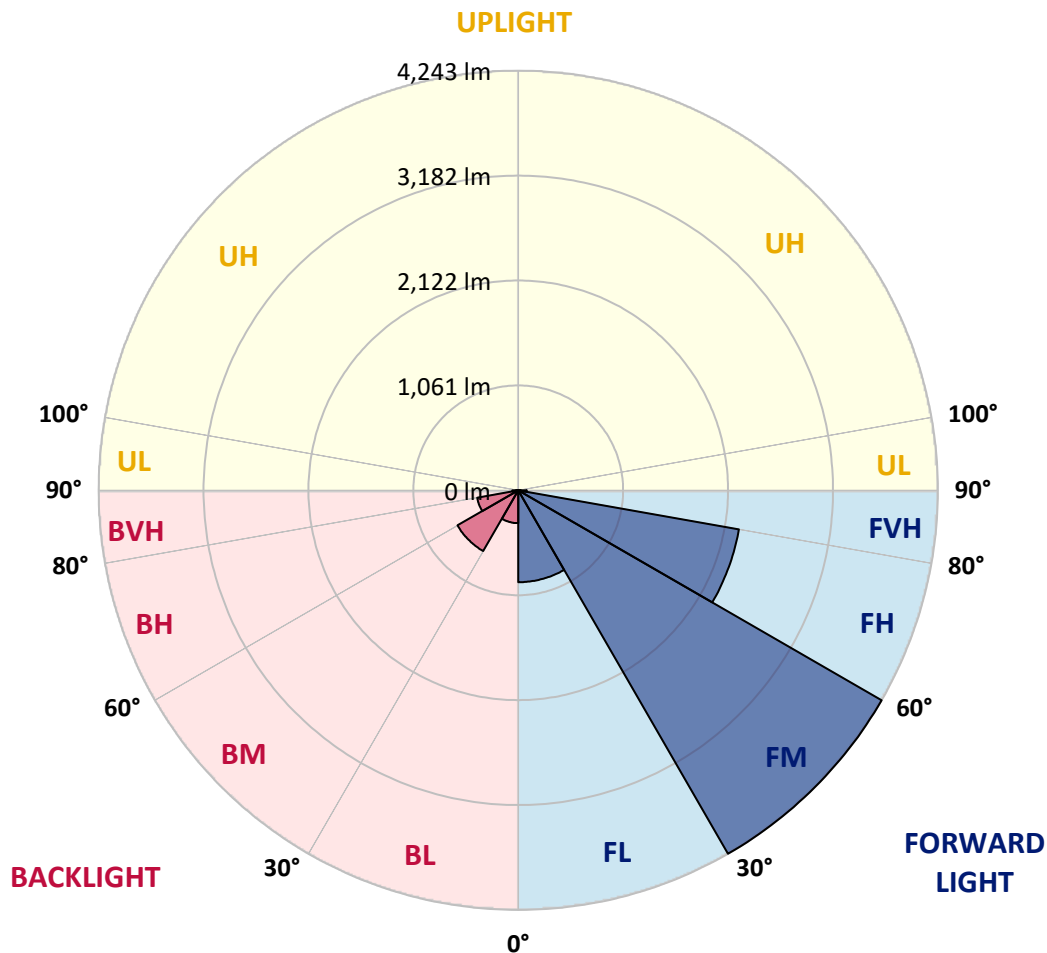


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.0	10.3			
FM (30°-60°)	4243.2	46.9			
FH (60°-80°)	2265.6	25.0			G2/5000
FVH (80°-90°)	86.0	1.0			G1/100
BL (0°-30°)	332.0	3.7	B1/500		
BM (30°-60°)	708.8	7.8	B1/1000		
BH (60°-80°)	421.7	4.7	B1/500		G1/500
BVH (80°-90°)	59.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	1096.7	1080.1	1078.5	1054.3	1048.8	1002.4	968.3	932.7	892.1	884.1	852.2
5°	1408.7	1407.1	1386.0	1346.3	1315.3	1236.1	1157.8	1074.9	984.0	969.2	897.4
7.5°	1689.4	1686.9	1670.6	1627.9	1583.1	1485.8	1374.0	1246.8	1099.4	1077.6	958.5
10°	1902.5	1901.6	1896.0	1864.7	1826.6	1733.3	1609.8	1436.3	1233.6	1203.8	1034.9
12.5°	2067.1	2068.9	2072.6	2061.6	2043.5	1963.9	1837.4	1637.2	1376.7	1347.3	1120.0
15°	2178.6	2184.1	2203.1	2218.8	2228.3	2179.5	2057.0	1842.6	1537.0	1501.7	1214.3
17.5°	2234.8	2240.9	2273.8	2321.1	2364.7	2359.8	2262.4	2038.5	1690.9	1656.8	1315.6
20°	2283.3	2287.9	2324.8	2381.6	2458.7	2492.7	2438.1	2227.1	1859.5	1819.0	1423.1
22.5°	2424.0	2429.8	2440.8	2473.1	2541.3	2603.9	2577.5	2405.5	2014.0	1976.2	1525.1
25°	2695.4	2702.5	2678.5	2651.2	2664.1	2707.7	2712.6	2568.3	2170.6	2127.9	1634.7
27.5°	3022.5	3032.6	2991.8	2921.5	2860.0	2843.1	2837.3	2701.6	2320.2	2270.7	1743.1
30°	3342.8	3360.3	3307.2	3216.0	3103.3	3024.0	2965.4	2832.1	2467.6	2420.3	1845.4
32.5°	3655.7	3648.7	3571.6	3482.5	3350.5	3251.3	3109.4	2972.1	2633.4	2579.0	1947.0
35°	3870.1	3872.6	3801.0	3695.4	3569.4	3493.3	3302.3	3123.2	2802.6	2752.6	2062.5
37.5°	4052.5	4041.2	3960.1	3861.5	3753.1	3720.5	3528.0	3289.7	2986.0	2931.3	2185.3
40°	4113.3	4100.1	4047.0	3976.0	3889.1	3886.4	3777.0	3478.2	3193.2	3139.2	2323.8
42.5°	4076.5	4059.6	4037.8	4018.4	3991.7	4004.0	4011.1	3699.3	3421.1	3360.6	2484.1
45°	3940.4	3914.9	3930.3	3972.4	4030.4	4099.8	4222.3	3944.1	3676.3	3625.6	2672.4
47.5°	3731.3	3708.3	3756.2	3846.1	4004.0	4179.7	4422.3	4214.4	3981.0	3930.6	2940.5
50°	3437.1	3443.8	3512.3	3676.0	3914.6	4216.5	4668.6	4572.1	4423.8	4376.8	3306.3
52.5°	2954.3	2955.5	3148.4	3417.1	3756.2	4197.5	4805.2	5029.4	5028.5	4971.7	3654.5
55°	2506.0	2533.3	2685.9	3043.1	3499.4	4121.3	4900.7	5251.7	5425.6	5358.9	3979.1
57.5°	2068.0	2084.0	2228.6	2587.3	3133.1	3918.3	4998.7	5518.6	5883.1	5841.1	4382.6
60°	1569.9	1594.5	1744.0	2075.4	2664.4	3558.1	5007.9	5797.2	6430.1	6387.7	4833.2
62.5°	1019.0	1061.3	1201.4	1511.9	2097.5	3040.0	4794.2	5979.3	6948.5	6933.4	5233.0
65°	585.6	617.6	714.9	954.5	1447.1	2389.6	4285.9	5909.3	7267.6	7259.0	5382.6
66°	478.5	498.4	573.1	746.0	1194.0	2098.4	3990.5	5761.5	7299.2	7299.5	5365.4
67.5°	382.6	391.6	425.0	534.1	881.1	1663.3	3462.6	5435.7	7259.9	7270.6	5254.5
70°	316.6	321.2	331.7	358.1	480.9	1003.0	2457.7	4589.0	6865.3	6873.6	4821.8
72.5°	284.1	286.8	290.8	294.5	339.3	560.5	1501.1	3671.1	6019.2	6029.9	4162.5
75°	257.4	258.9	258.3	258.6	284.7	357.2	775.7	2740.9	4866.9	4845.5	3188.6
77.5°	226.0	227.6	224.5	225.1	251.8	274.5	386.0	1918.8	3284.5	3132.7	1796.5
80°	191.0	192.2	191.0	193.2	219.3	207.3	224.5	1079.5	1452.3	1373.7	638.8
82.5°	144.3	149.6	153.2	161.8	180.6	147.4	150.2	420.4	442.2	421.0	195.9
85°	63.3	77.1	115.5	123.8	135.7	88.4	98.6	171.4	180.0	174.4	71.2
87.5°	16.6	18.1	57.1	71.9	75.2	39.9	51.3	78.0	82.3	78.0	23.6
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°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	835.3	820.3	793.2	769.3	751.2	738.9	726.6	720.5	716.8	713.1	713.7
5°	862.0	831.6	785.3	752.4	734.0	722.3	716.2	713.7	712.2	708.5	708.5
7.5°	902.3	859.3	795.4	761.6	747.2	738.3	734.6	733.4	731.5	727.2	727.8
10°	952.9	892.7	816.6	783.7	770.5	760.7	755.5	753.6	750.2	745.3	746.0
12.5°	1012.5	934.2	844.5	810.1	794.2	781.0	772.4	767.1	761.3	754.9	755.2
15°	1077.6	979.3	874.6	833.8	812.0	793.6	779.7	770.8	761.6	753.6	753.3
17.5°	1143.6	1023.0	897.7	846.7	817.2	792.9	774.2	760.4	749.0	739.2	738.3
20°	1214.9	1062.3	910.6	845.5	807.4	778.5	753.6	736.4	723.8	714.0	712.5
22.5°	1287.4	1099.1	912.7	832.9	785.6	750.2	724.1	705.1	692.2	682.1	678.4
25°	1353.7	1127.7	903.8	808.6	755.2	717.1	691.6	672.2	661.8	649.8	646.1
27.5°	1414.2	1147.6	886.0	777.6	721.1	683.6	659.7	643.1	631.7	622.5	619.4
30°	1468.6	1158.4	856.8	740.7	686.1	652.0	631.7	620.3	610.5	598.8	596.7
32.5°	1520.2	1158.4	819.3	700.5	651.4	624.0	612.1	605.0	593.9	582.6	579.5
35°	1571.7	1151.3	775.1	658.4	619.4	604.1	603.5	595.2	578.3	562.9	558.9
37.5°	1626.1	1136.9	725.4	619.1	593.3	595.2	600.4	582.0	558.0	536.2	530.4
40°	1687.5	1116.9	673.8	585.0	571.5	591.2	592.1	562.9	516.2	496.3	491.1
42.5°	1759.7	1097.0	625.9	554.9	554.3	579.2	576.4	521.8	493.8	483.7	480.9
45°	1854.6	1085.6	580.4	526.4	540.8	559.8	549.7	499.0	487.4	481.5	479.1
47.5°	2004.1	1091.4	538.7	503.6	527.3	540.5	500.0	489.8	481.5	474.5	472.0
50°	2191.5	1088.1	504.9	488.0	511.9	520.2	477.5	477.9	473.6	465.6	461.9
52.5°	2332.4	1061.7	483.1	479.1	498.4	484.3	463.4	466.2	464.0	452.4	448.4
55°	2468.5	1038.9	472.0	475.7	488.6	439.5	446.8	453.6	451.4	440.1	438.2
57.5°	2637.7	1034.6	465.3	476.6	480.3	417.0	430.9	439.8	438.2	433.3	432.4
60°	2845.0	1035.9	459.1	478.2	471.1	400.5	415.8	427.2	428.1	427.2	426.6
62.5°	2958.9	1002.4	443.8	473.9	454.8	386.0	400.2	416.7	417.0	418.9	418.6
65°	2862.2	902.3	415.2	458.8	427.5	374.0	386.6	404.8	400.2	408.4	408.4
66°	2768.2	844.5	401.1	449.0	415.8	369.4	382.3	398.6	392.8	404.1	404.1
67.5°	2576.3	747.2	375.6	428.1	399.2	363.0	377.4	388.5	380.5	397.4	396.2
70°	2225.6	578.0	324.3	380.8	371.9	353.5	370.7	368.2	356.5	382.3	377.4
72.5°	1876.4	439.2	260.4	318.8	330.4	341.5	361.2	342.4	327.7	345.8	335.0
75°	1456.0	330.1	205.8	247.8	279.2	322.8	349.8	312.6	291.4	289.6	283.8
77.5°	787.1	226.6	163.1	189.2	221.7	299.4	342.1	280.7	248.8	241.4	236.8
80°	311.7	147.4	118.5	143.4	155.1	265.6	323.7	243.5	205.1	197.8	190.7
82.5°	128.7	87.2	76.5	96.1	101.0	227.3	290.5	199.6	158.5	219.3	232.8
85°	55.3	47.9	45.5	49.8	57.1	159.4	231.2	152.3	171.1	152.6	121.3
87.5°	16.6	20.3	19.3	19.0	20.9	38.1	123.1	84.8	125.6	47.6	35.6
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)