

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: P317455

Luminaire Tested: **GAN-SA1D-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317455  
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-SA1D-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8462 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

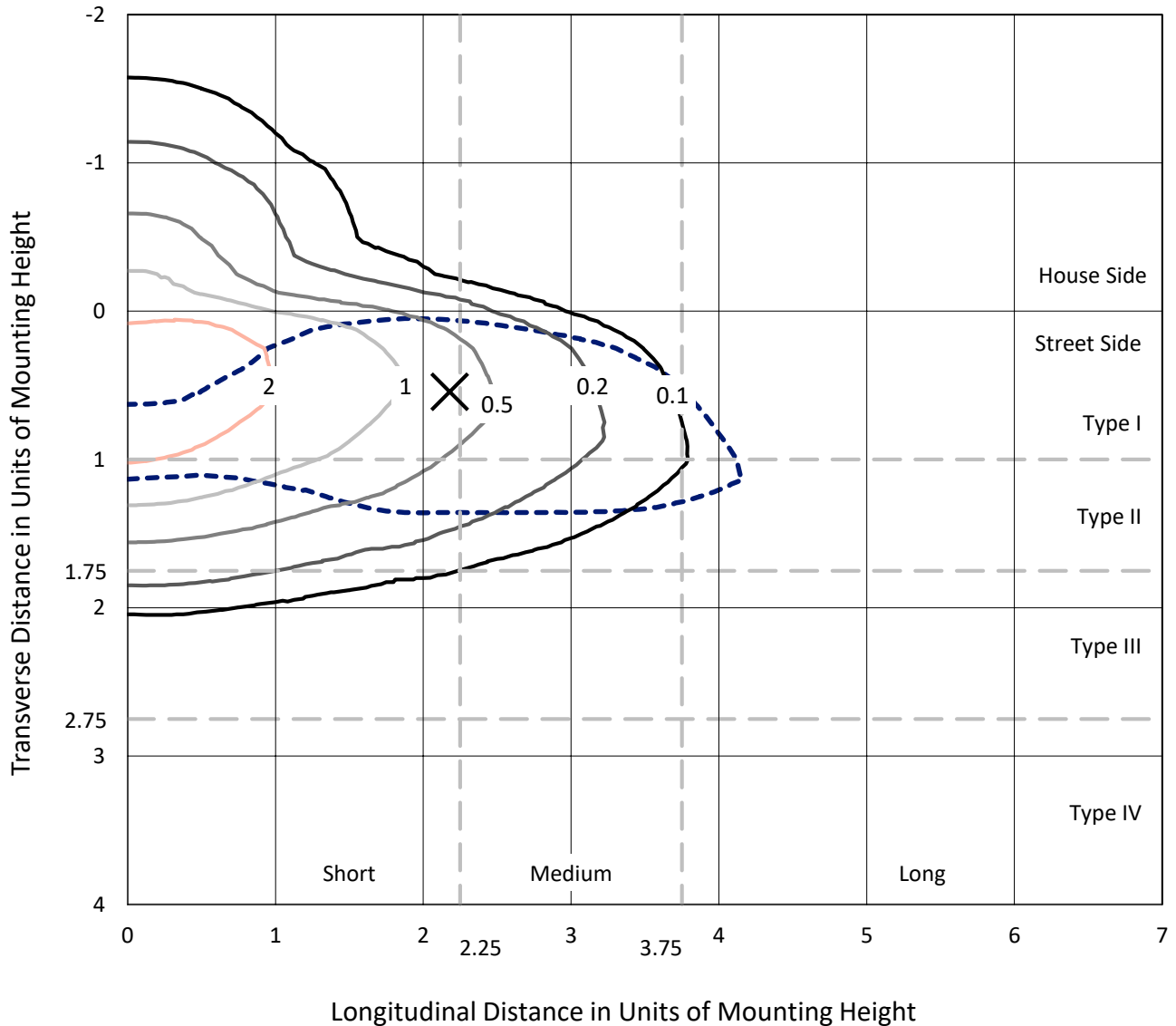
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

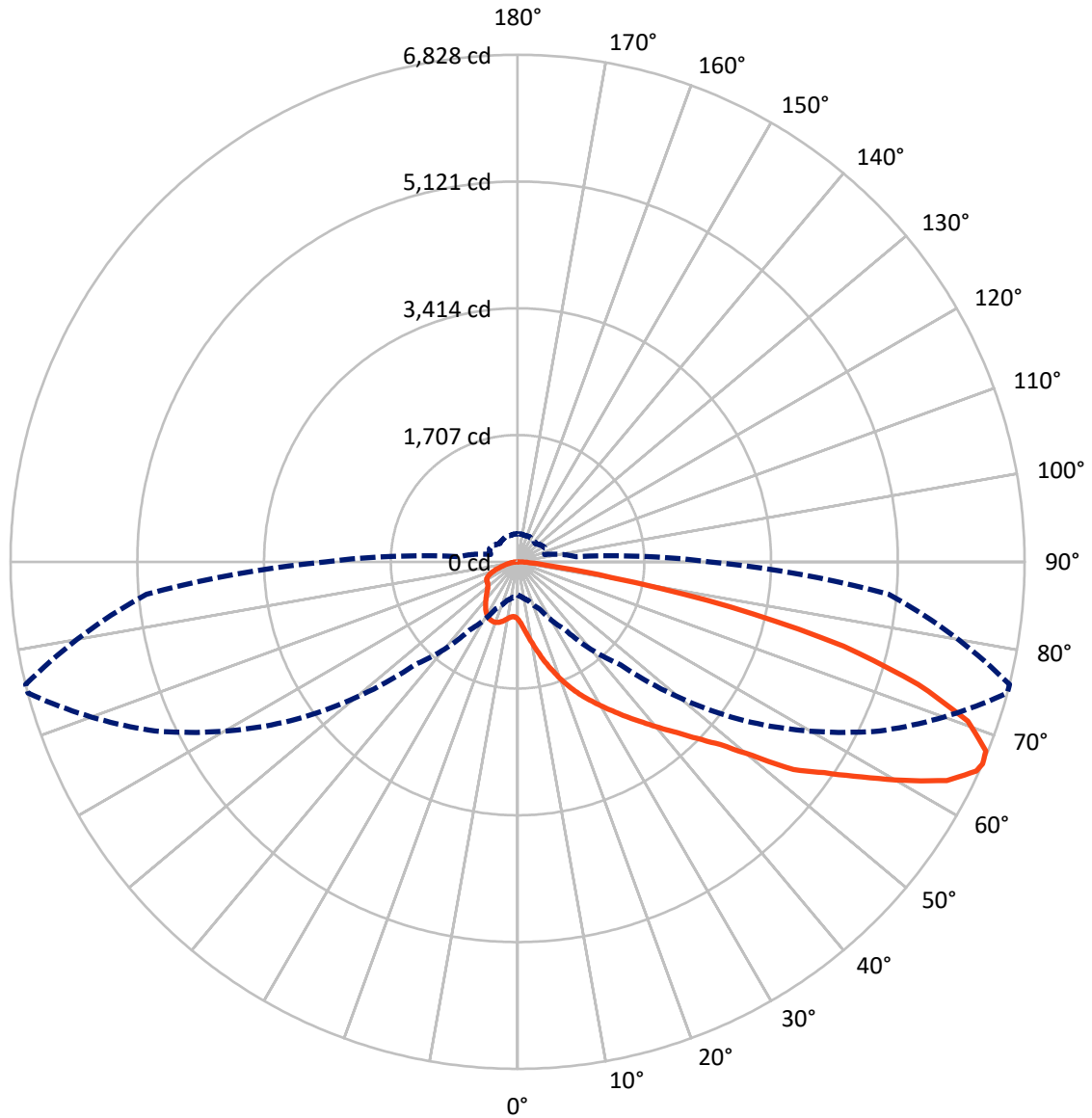
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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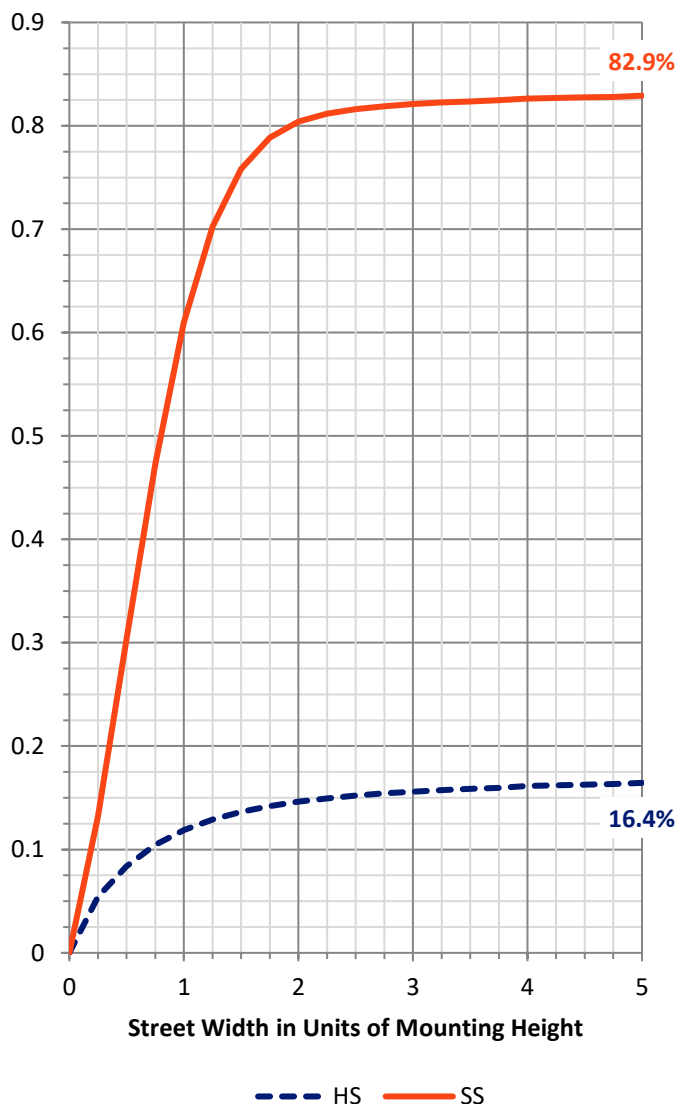
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1423.9	0.0	1423.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	7038.1	0.0	7038.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	8462.0	0.0	8462.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	1.1
10°-20°	369.0	4.4
20°-30°	717.1	8.5
30°-40°	1170.5	13.8
40°-50°	1599.1	18.9
50°-60°	1862.7	22.0
60°-70°	1669.9	19.7
70°-80°	843.9	10.0
80°-90°	136.3	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°	8462.0	100.0
0°-180°	8462.0	100.0

**Coefficient of Utilization**

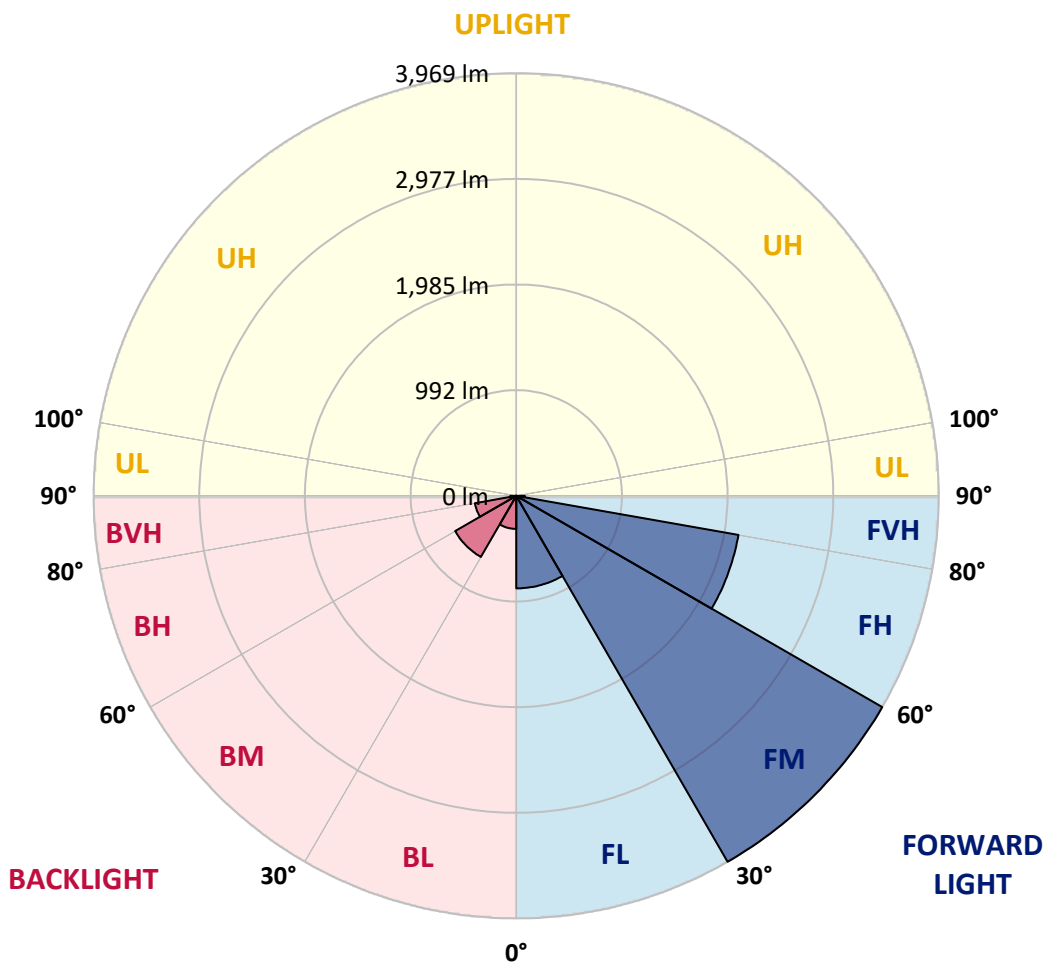


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.0	10.3			
FM (30°-60°)	3969.3	46.9			
FH (60°-80°)	2119.4	25.0			G2/5000
FVH (80°-90°)	80.5	1.0			G1/100
BL (0°-30°)	310.6	3.7	B1/500		
BM (30°-60°)	663.0	7.8	B1/1000		
BH (60°-80°)	394.5	4.7	B1/500		G1/500
BVH (80°-90°)	55.8	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°	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8
2.5°	1025.9	1010.3	1008.9	986.2	981.0	937.7	905.8	872.5	834.5	827.1	797.2
5°	1317.7	1316.3	1296.5	1259.4	1230.4	1156.3	1083.0	1005.5	920.4	906.6	839.4
7.5°	1580.3	1578.0	1562.8	1522.8	1480.9	1389.8	1285.3	1166.3	1028.4	1008.1	896.6
10°	1779.7	1778.8	1773.6	1744.3	1708.7	1621.4	1505.9	1343.6	1154.0	1126.1	968.1
12.5°	1933.7	1935.4	1938.8	1928.5	1911.5	1837.1	1718.8	1531.5	1287.9	1260.3	1047.7
15°	2037.9	2043.1	2060.9	2075.6	2084.5	2038.8	1924.2	1723.7	1437.8	1404.8	1135.9
17.5°	2090.5	2096.3	2127.0	2171.2	2212.0	2207.4	2116.4	1906.9	1581.7	1549.9	1230.7
20°	2135.9	2140.2	2174.7	2227.8	2299.9	2331.8	2280.7	2083.3	1739.5	1701.5	1331.2
22.5°	2267.5	2272.9	2283.3	2313.4	2377.2	2435.8	2411.1	2250.2	1884.0	1848.6	1426.6
25°	2521.4	2528.0	2505.6	2480.1	2492.1	2532.9	2537.5	2402.5	2030.5	1990.5	1529.2
27.5°	2827.4	2836.8	2798.6	2732.9	2675.4	2659.6	2654.1	2527.2	2170.4	2124.1	1630.6
30°	3127.0	3143.4	3093.7	3008.4	2902.9	2828.8	2773.9	2649.3	2308.3	2264.0	1726.2
32.5°	3419.7	3413.1	3341.0	3257.7	3134.2	3041.4	2908.7	2780.3	2463.4	2412.5	1821.3
35°	3620.2	3622.5	3555.6	3456.8	3339.0	3267.8	3089.1	2921.6	2621.7	2574.9	1929.3
37.5°	3790.9	3780.3	3704.4	3612.2	3510.8	3480.3	3300.2	3077.3	2793.2	2742.0	2044.3
40°	3847.8	3835.4	3785.7	3719.4	3638.1	3635.5	3533.2	3253.7	2987.1	2936.5	2173.8
42.5°	3813.3	3797.5	3777.1	3759.0	3734.0	3745.5	3752.1	3460.5	3200.3	3143.7	2323.8
45°	3686.0	3662.2	3676.6	3715.9	3770.2	3835.1	3949.8	3689.5	3439.0	3391.6	2499.9
47.5°	3490.4	3468.9	3513.7	3597.8	3745.5	3909.8	4136.8	3942.3	3724.0	3676.8	2750.7
50°	3215.2	3221.5	3285.6	3438.7	3661.9	3944.3	4367.2	4277.0	4138.2	4094.3	3092.8
52.5°	2763.6	2764.7	2945.1	3196.5	3513.7	3926.5	4495.0	4704.7	4703.9	4650.7	3418.6
55°	2344.2	2369.7	2512.5	2846.6	3273.5	3855.2	4584.3	4912.7	5075.3	5013.0	3722.2
57.5°	1934.5	1949.5	2084.8	2420.3	2930.8	3665.3	4676.0	5162.3	5503.3	5464.0	4099.7
60°	1468.6	1491.5	1631.4	1941.4	2492.4	3328.4	4684.6	5422.9	6015.0	5975.3	4521.1
62.5°	953.2	992.8	1123.8	1414.3	1962.1	2843.7	4484.7	5593.3	6499.9	6485.8	4895.2
65°	547.8	577.7	668.8	892.9	1353.6	2235.3	4009.2	5527.8	6798.4	6790.3	5035.1
66°	447.6	466.2	536.1	697.8	1116.9	1963.0	3732.9	5389.6	6828.0	6828.3	5019.0
67.5°	357.9	366.3	397.6	499.6	824.2	1555.9	3239.0	5084.8	6791.2	6801.3	4915.3
70°	296.2	300.5	310.3	335.0	449.9	938.2	2299.1	4292.8	6422.0	6429.8	4510.5
72.5°	265.7	268.3	272.1	275.5	317.4	524.3	1404.2	3434.1	5630.6	5640.7	3893.7
75°	240.7	242.2	241.6	241.9	266.3	334.1	725.7	2563.9	4552.7	4532.6	2982.8
77.5°	211.4	212.9	210.0	210.6	235.6	256.8	361.1	1794.9	3072.4	2930.5	1680.6
80°	178.7	179.8	178.7	180.7	205.1	193.9	210.0	1009.8	1358.5	1285.0	597.5
82.5°	135.0	139.9	143.4	151.4	168.9	137.9	140.5	393.3	413.7	393.9	183.3
85°	59.2	72.1	108.0	115.8	127.0	82.7	92.2	160.3	168.3	163.2	66.6
87.5°	15.5	16.9	53.4	67.2	70.4	37.3	48.0	73.0	77.0	73.0	22.1
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°	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8
2.5°	781.4	767.3	742.0	719.6	702.7	691.2	679.7	673.9	670.5	667.1	667.6
5°	806.4	777.9	734.6	703.8	686.6	675.7	669.9	667.6	666.2	662.7	662.7
7.5°	844.0	803.8	744.0	712.4	698.9	690.6	687.2	686.0	684.3	680.3	680.8
10°	891.4	835.1	763.9	733.1	720.8	711.6	706.7	705.0	701.8	697.2	697.8
12.5°	947.1	873.9	790.0	757.8	742.9	730.5	722.5	717.6	712.2	706.1	706.4
15°	1008.1	916.1	818.2	780.0	759.6	742.3	729.4	721.1	712.4	705.0	704.7
17.5°	1069.8	956.9	839.7	792.0	764.4	741.7	724.2	711.3	700.7	691.5	690.6
20°	1136.5	993.7	851.8	790.9	755.2	728.2	705.0	688.9	677.1	667.9	666.5
22.5°	1204.3	1028.2	853.8	779.1	734.9	701.8	677.4	659.6	647.5	638.0	634.6
25°	1266.3	1054.9	845.5	756.4	706.4	670.8	646.9	628.8	619.1	607.9	604.4
27.5°	1322.9	1073.5	828.8	727.4	674.5	639.5	617.1	601.6	590.9	582.3	579.4
30°	1373.8	1083.6	801.5	692.9	641.8	609.9	590.9	580.3	571.1	560.2	558.2
32.5°	1422.0	1083.6	766.5	655.3	609.3	583.7	572.5	565.9	555.6	545.0	542.1
35°	1470.3	1077.0	725.1	615.9	579.4	565.1	564.5	556.7	540.9	526.6	522.8
37.5°	1521.1	1063.5	678.5	579.1	555.0	556.7	561.6	544.4	522.0	501.6	496.1
40°	1578.6	1044.8	630.3	547.3	534.6	553.0	553.9	526.6	482.9	464.2	459.4
42.5°	1646.1	1026.1	585.5	519.1	518.5	541.8	539.2	488.1	461.9	452.5	449.9
45°	1734.9	1015.5	543.0	492.4	505.9	523.7	514.2	466.8	455.9	450.4	448.1
47.5°	1874.8	1021.0	503.9	471.1	493.3	505.6	467.7	458.2	450.4	443.8	441.5
50°	2050.0	1017.8	472.3	456.5	478.9	486.6	446.7	447.0	443.0	435.5	432.1
52.5°	2181.9	993.1	451.9	448.1	466.2	453.0	433.5	436.1	434.1	423.2	419.4
55°	2309.1	971.9	441.5	445.0	457.1	411.1	418.0	424.3	422.3	411.7	409.9
57.5°	2467.4	967.8	435.2	445.9	449.3	390.1	403.0	411.4	409.9	405.3	404.5
60°	2661.3	969.0	429.5	447.3	440.7	374.6	389.0	399.6	400.5	399.6	399.0
62.5°	2767.9	937.7	415.1	443.3	425.5	361.1	374.3	389.8	390.1	391.8	391.6
65°	2677.4	844.0	388.4	429.2	399.9	349.9	361.7	378.6	374.3	382.1	382.1
66°	2589.5	790.0	375.2	420.0	389.0	345.6	357.7	372.9	367.4	378.1	378.1
67.5°	2410.0	698.9	351.3	400.5	373.5	339.6	353.1	363.4	355.9	371.7	370.6
70°	2081.9	540.7	303.4	356.2	347.9	330.7	346.7	344.4	333.5	357.7	353.1
72.5°	1755.3	410.8	243.6	298.2	309.1	319.5	337.8	320.3	306.5	323.5	313.4
75°	1362.0	308.8	192.5	231.8	261.1	301.9	327.2	292.4	272.6	270.9	265.4
77.5°	736.3	212.0	152.5	177.0	207.4	280.1	320.0	262.6	232.7	225.8	221.5
80°	291.6	137.9	110.9	134.2	145.1	248.5	302.8	227.8	191.9	185.0	178.4
82.5°	120.4	81.6	71.5	89.9	94.5	212.6	271.8	186.7	148.2	205.1	217.8
85°	51.7	44.8	42.5	46.5	53.4	149.1	216.3	142.5	160.0	142.8	113.5
87.5°	15.5	19.0	18.1	17.8	19.5	35.6	115.2	79.3	117.5	44.5	33.3
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)