

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: P319165

Luminaire Tested: **GAN-SA1C-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5406 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

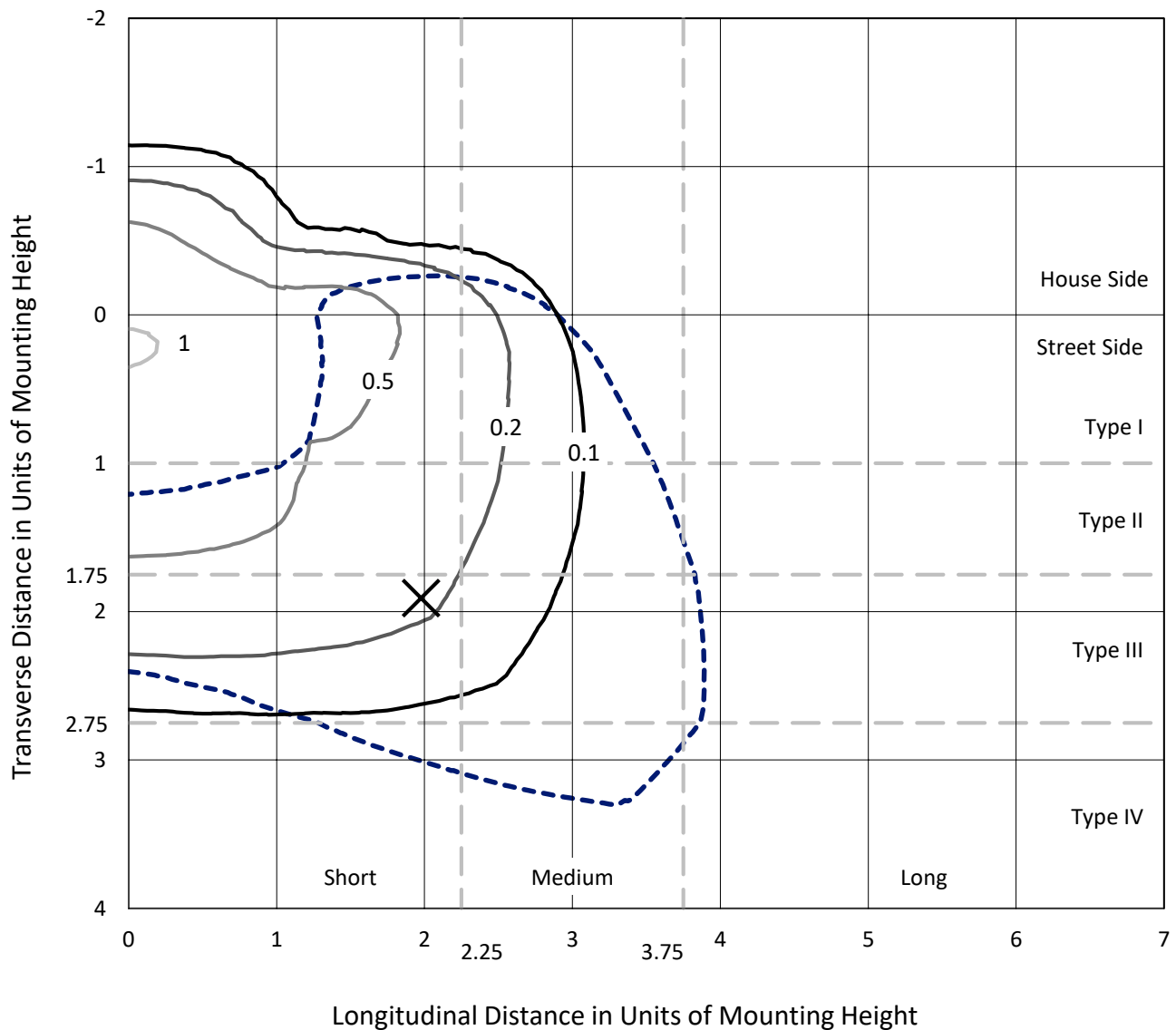
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

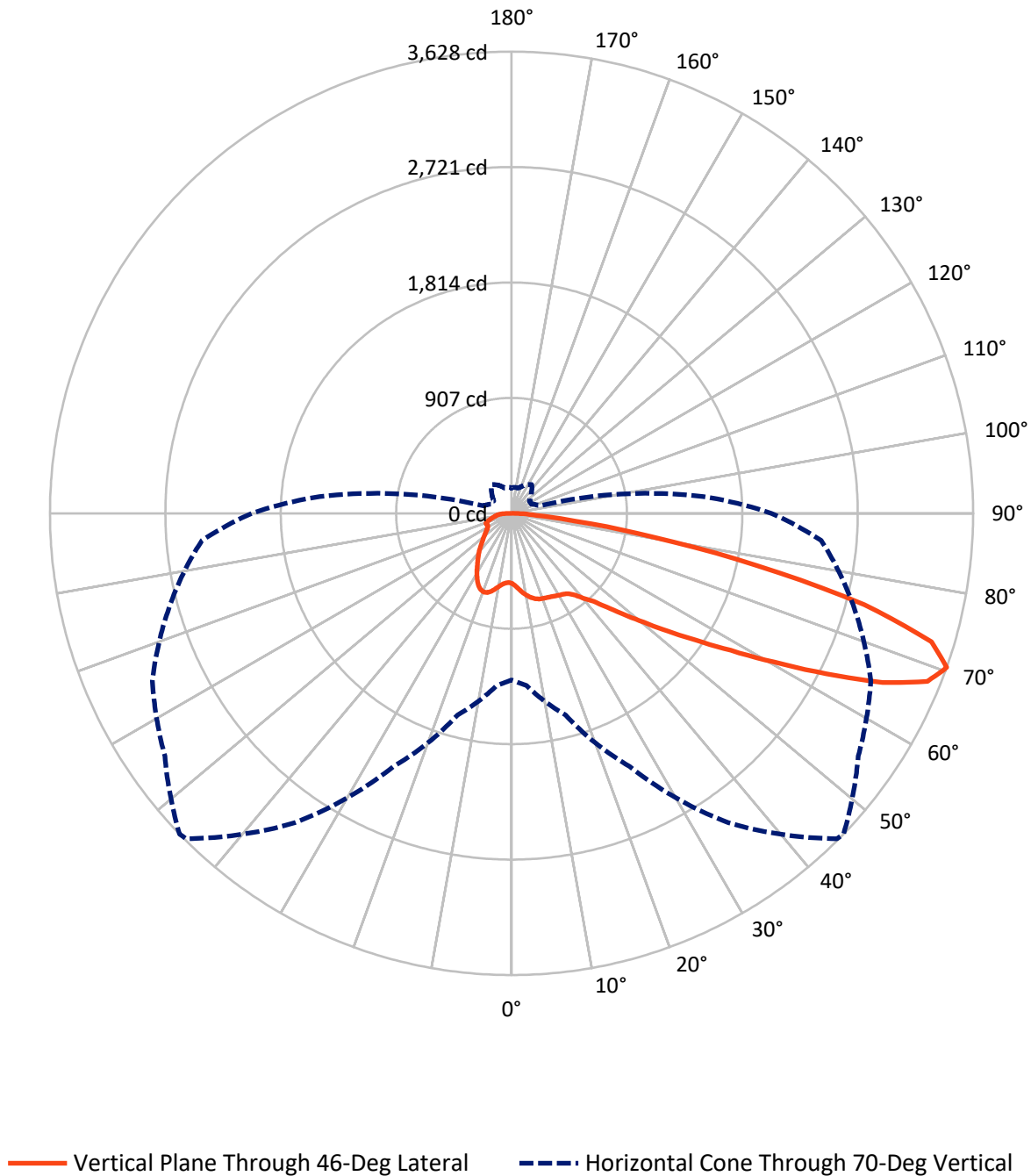
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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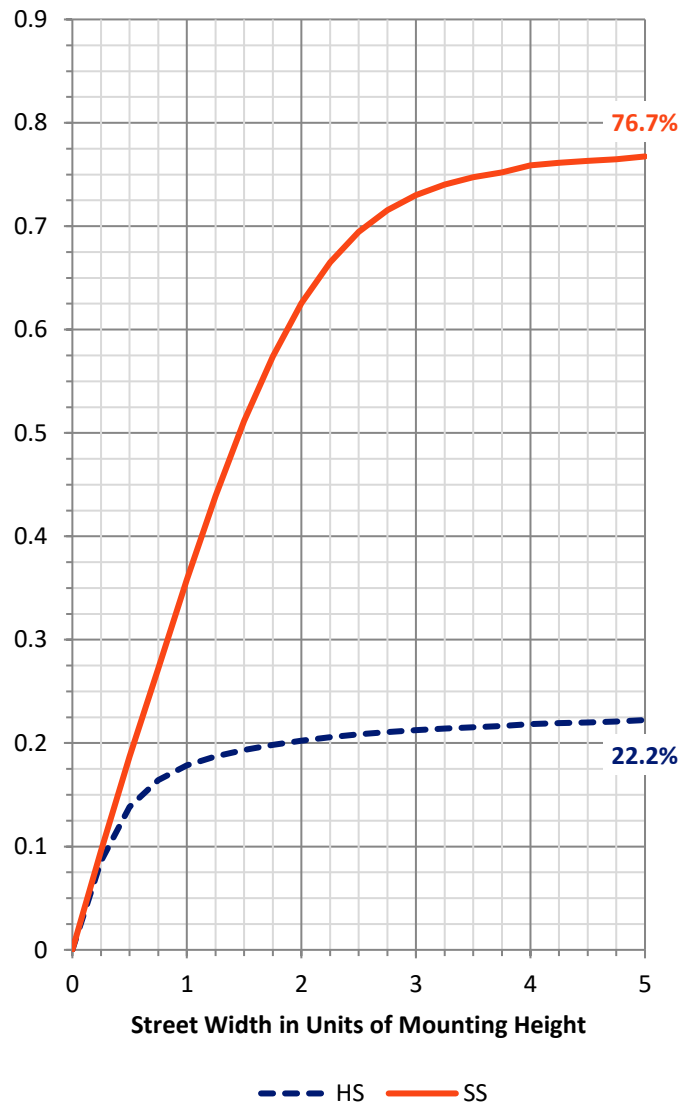
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1239.0	0.0	1239.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4167.0	0.0	4167.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	5406.0	0.0	5406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.0
10°-20°	187.1	3.5
20°-30°	311.9	5.8
30°-40°	442.6	8.2
40°-50°	651.1	12.0
50°-60°	1102.6	20.4
60°-70°	1565.1	29.0
70°-80°	950.8	17.6
80°-90°	138.8	2.6
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°	5406.0	100.0
0°-180°	5406.0	100.0

Coefficient of Utilization



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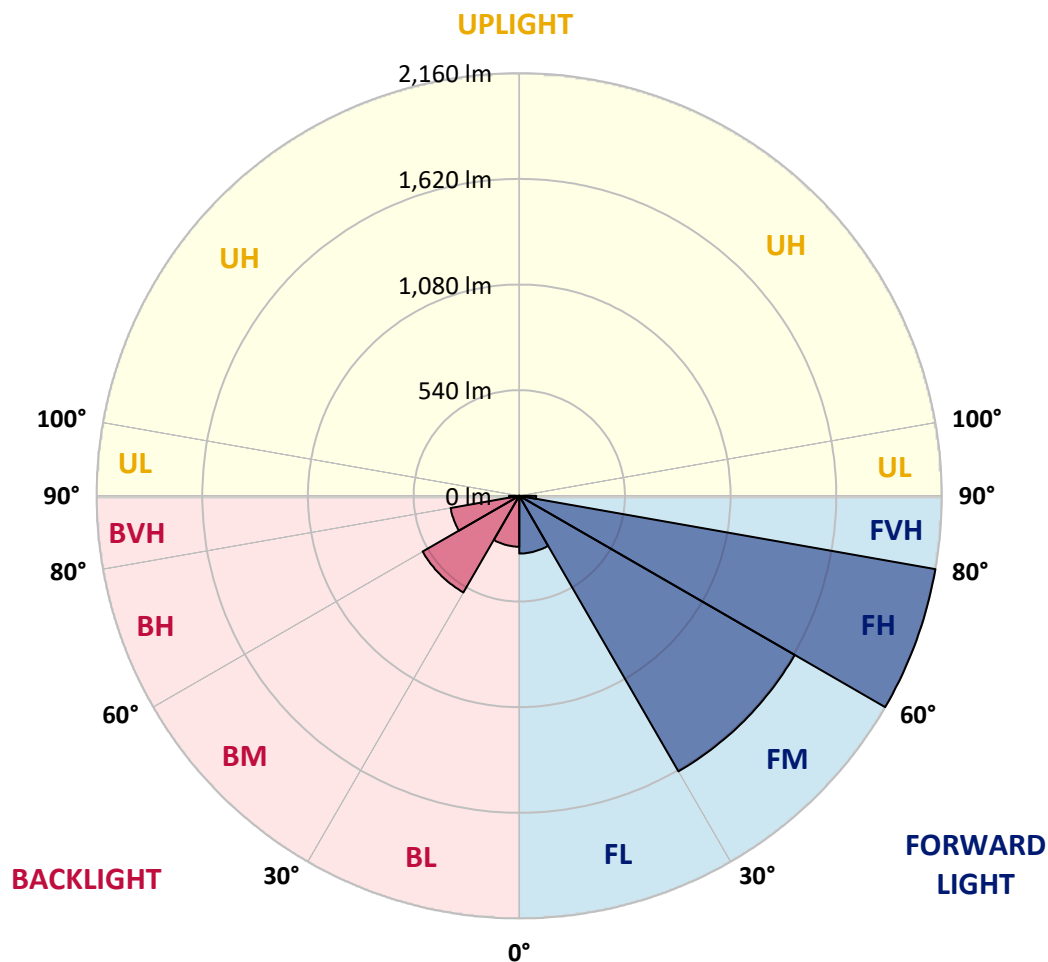
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.0	5.5			
FM	(30°-60°)	1625.9	30.1			
FH	(60°-80°)	2159.7	39.9			G2/5000
FVH	(80°-90°)	86.4	1.6			G1/100
BL	(0°-30°)	260.1	4.8	B1/500		
BM	(30°-60°)	570.4	10.6	B1/1000		
BH	(60°-80°)	356.2	6.6	B1/500		G1/500
BVH	(80°-90°)	52.3	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8
2.5°	578.3	578.7	579.4	577.6	572.4	570.9	570.4	565.0	561.5	556.3	551.9
5°	624.6	625.0	623.8	618.7	607.2	598.7	597.9	585.7	574.6	562.8	553.9
7.5°	672.9	673.4	669.9	660.1	644.0	629.2	628.3	611.6	594.8	576.9	563.5
10°	715.6	713.4	707.7	694.0	674.9	656.8	656.0	638.6	619.2	597.6	579.8
12.5°	744.1	742.2	734.8	718.2	697.3	680.6	679.2	663.1	644.2	620.5	599.2
15°	759.8	761.1	751.1	732.3	711.9	697.8	696.6	685.1	668.2	644.4	620.0
17.5°	761.9	763.0	753.3	734.7	718.0	708.4	707.8	700.3	688.0	665.1	639.6
20°	750.0	750.8	742.8	727.4	716.5	713.6	713.4	710.1	701.0	680.6	655.8
22.5°	732.8	733.4	727.6	716.5	712.8	717.5	718.8	717.5	711.0	691.9	668.6
25°	728.6	728.2	722.3	711.0	714.1	723.9	725.6	726.2	721.7	705.1	684.9
27.5°	749.1	747.8	736.5	718.4	720.4	732.3	734.5	739.8	737.1	722.5	703.4
30°	808.5	806.3	783.1	746.5	736.5	742.6	745.4	753.9	754.5	742.2	728.0
32.5°	908.8	906.0	864.5	799.0	763.7	753.2	755.8	768.5	775.4	765.9	750.6
35°	1035.5	1032.3	977.9	888.4	809.2	773.3	775.2	785.4	799.0	785.7	765.4
37.5°	1167.6	1160.0	1107.6	993.5	881.6	816.4	816.4	817.7	824.2	796.5	782.8
40°	1298.9	1291.3	1244.0	1117.1	975.2	884.3	880.1	851.4	846.2	822.4	817.7
42.5°	1421.0	1418.8	1390.9	1256.8	1085.1	951.1	945.2	896.5	897.7	882.9	883.0
45°	1550.9	1550.9	1528.2	1397.7	1213.1	1058.4	1052.5	980.9	992.0	985.2	1001.6
47.5°	1656.9	1660.3	1657.1	1544.6	1362.0	1194.8	1184.0	1097.8	1128.9	1152.4	1200.3
50°	1765.2	1770.3	1770.9	1705.8	1542.0	1356.8	1344.6	1253.1	1322.4	1389.8	1483.9
52.5°	1922.2	1933.9	1887.4	1866.5	1762.6	1549.2	1537.2	1452.7	1568.5	1663.0	1825.3
55°	2067.8	2057.6	2024.5	2037.5	1998.6	1768.3	1759.2	1685.0	1842.7	1965.5	2176.2
57.5°	2146.6	2145.9	2179.2	2234.7	2253.2	2038.4	2030.8	1958.7	2151.8	2244.1	2505.7
60°	2239.1	2240.4	2322.9	2448.9	2525.2	2374.7	2371.4	2316.7	2452.1	2504.3	2764.2
62.5°	2252.1	2275.4	2417.5	2634.3	2779.7	2767.7	2775.1	2639.1	2720.7	2711.8	2957.2
65°	2103.2	2133.9	2391.0	2690.4	3032.8	3197.5	3204.3	2963.4	2932.5	2889.3	3026.2
67.5°	1797.9	1843.4	2122.8	2568.5	3116.3	3515.1	3524.8	3214.9	3108.3	2949.4	2860.0
70°	1308.4	1358.9	1640.1	2193.6	2967.5	3616.7	3627.6	3326.1	3115.0	2778.2	2441.5
72.5°	790.3	829.9	1061.8	1614.9	2504.6	3431.7	3451.1	3185.1	2843.9	2353.3	1802.9
75°	347.1	373.0	513.4	930.6	1793.1	2839.3	2863.5	2726.3	2310.7	1710.2	1065.6
77.5°	147.8	155.2	210.5	404.2	1013.7	1940.2	1973.5	1992.0	1567.7	930.6	450.3
80°	92.1	95.1	119.1	183.0	474.4	1089.7	1125.6	1172.0	778.5	342.1	157.3
82.5°	56.1	59.4	79.2	110.6	247.0	494.0	511.2	543.9	302.1	147.8	81.4
85°	33.7	36.1	48.5	69.9	140.6	194.3	194.1	214.6	142.3	95.1	42.9
87.5°	16.1	17.9	25.9	36.3	70.9	72.9	68.3	77.3	86.4	62.3	21.6
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°	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8	550.8
2.5°	550.4	549.7	547.3	545.4	545.0	543.9	543.0	543.6	544.3	544.5	544.5
5°	550.2	548.2	545.0	543.7	545.4	547.6	550.4	554.1	556.3	558.0	559.1
7.5°	559.1	555.2	551.7	551.0	554.3	560.2	566.5	574.3	579.6	583.3	584.1
10°	573.9	569.1	565.6	566.3	572.2	580.7	589.6	599.6	607.7	612.7	613.1
12.5°	590.9	586.3	583.0	586.1	595.9	606.3	615.5	624.2	631.6	636.6	636.6
15°	610.5	607.2	603.3	610.5	623.8	633.1	637.0	641.2	645.3	649.0	648.3
17.5°	629.4	626.2	624.2	632.7	646.6	650.9	648.3	645.1	645.1	647.2	647.5
20°	645.7	642.9	644.2	652.5	659.7	655.3	645.7	635.7	631.6	632.7	633.8
22.5°	659.9	658.6	662.5	666.4	661.2	645.7	627.9	614.4	609.4	609.0	609.4
25°	676.6	676.4	681.2	674.2	651.2	622.5	598.7	585.5	582.8	585.0	588.7
27.5°	697.3	699.3	701.7	676.0	630.9	587.6	563.3	554.3	557.1	562.4	565.9
30°	723.7	729.3	724.1	671.4	601.6	547.6	524.5	521.9	529.5	537.1	540.8
32.5°	749.5	758.2	745.6	659.4	563.9	505.3	487.3	486.6	495.8	503.2	508.4
35°	770.2	787.4	761.7	635.5	520.2	466.2	453.1	448.1	451.4	460.1	466.0
37.5°	797.2	825.9	772.8	599.1	472.9	434.0	418.7	407.2	404.2	407.8	410.7
40°	846.6	884.5	778.0	548.2	426.6	401.8	386.3	369.5	357.8	349.3	349.5
42.5°	927.3	960.9	774.6	486.4	383.9	370.4	352.8	333.4	314.5	295.3	293.8
45°	1058.2	1074.5	764.6	420.9	346.3	337.5	321.0	301.6	276.4	254.6	252.5
47.5°	1267.9	1231.8	749.1	363.7	313.2	309.5	294.3	272.0	245.3	227.7	226.3
50°	1553.7	1458.8	741.5	318.2	284.0	285.1	272.7	249.0	223.9	210.9	209.4
52.5°	1895.6	1723.2	756.1	283.1	260.5	264.4	255.1	232.9	211.8	201.7	200.2
55°	2250.2	1997.0	771.8	257.5	238.3	245.9	242.7	224.4	205.4	195.9	194.6
57.5°	2553.8	2201.4	740.4	236.8	218.5	230.3	233.1	219.0	202.0	193.5	192.0
60°	2744.9	2283.7	657.9	217.4	202.8	217.9	227.6	217.6	203.3	202.6	201.5
62.5°	2835.6	2276.5	534.1	202.0	193.0	212.6	231.6	225.9	218.1	224.8	225.3
65°	2794.9	2167.7	397.8	191.9	185.9	214.6	243.8	241.6	222.4	229.0	230.0
67.5°	2527.0	1908.2	294.5	183.0	178.2	220.3	266.0	246.8	214.1	218.9	215.9
70°	2042.5	1512.8	227.2	173.0	170.2	219.6	276.0	243.7	205.0	206.1	198.1
72.5°	1408.5	1031.6	184.8	163.7	158.7	200.2	269.0	235.9	197.4	188.9	178.3
75°	765.9	553.7	157.1	154.1	138.6	175.8	256.0	230.3	190.6	179.3	173.4
77.5°	301.4	229.8	136.4	141.0	121.2	155.2	241.6	219.8	181.1	166.3	163.4
80°	123.0	117.3	113.0	121.9	104.2	135.8	224.2	207.4	169.8	154.3	148.4
82.5°	69.7	72.9	87.9	96.2	84.5	125.1	215.9	197.4	156.3	138.2	131.2
85°	35.7	42.7	61.2	69.0	62.2	106.4	198.9	172.8	125.4	105.8	106.4
87.5°	17.2	23.9	38.7	43.3	40.3	77.0	148.6	125.2	97.7	77.3	74.9
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)