

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: P382757

Luminaire Tested: **GAN-SA1B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382757
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-SA1B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5806.3 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

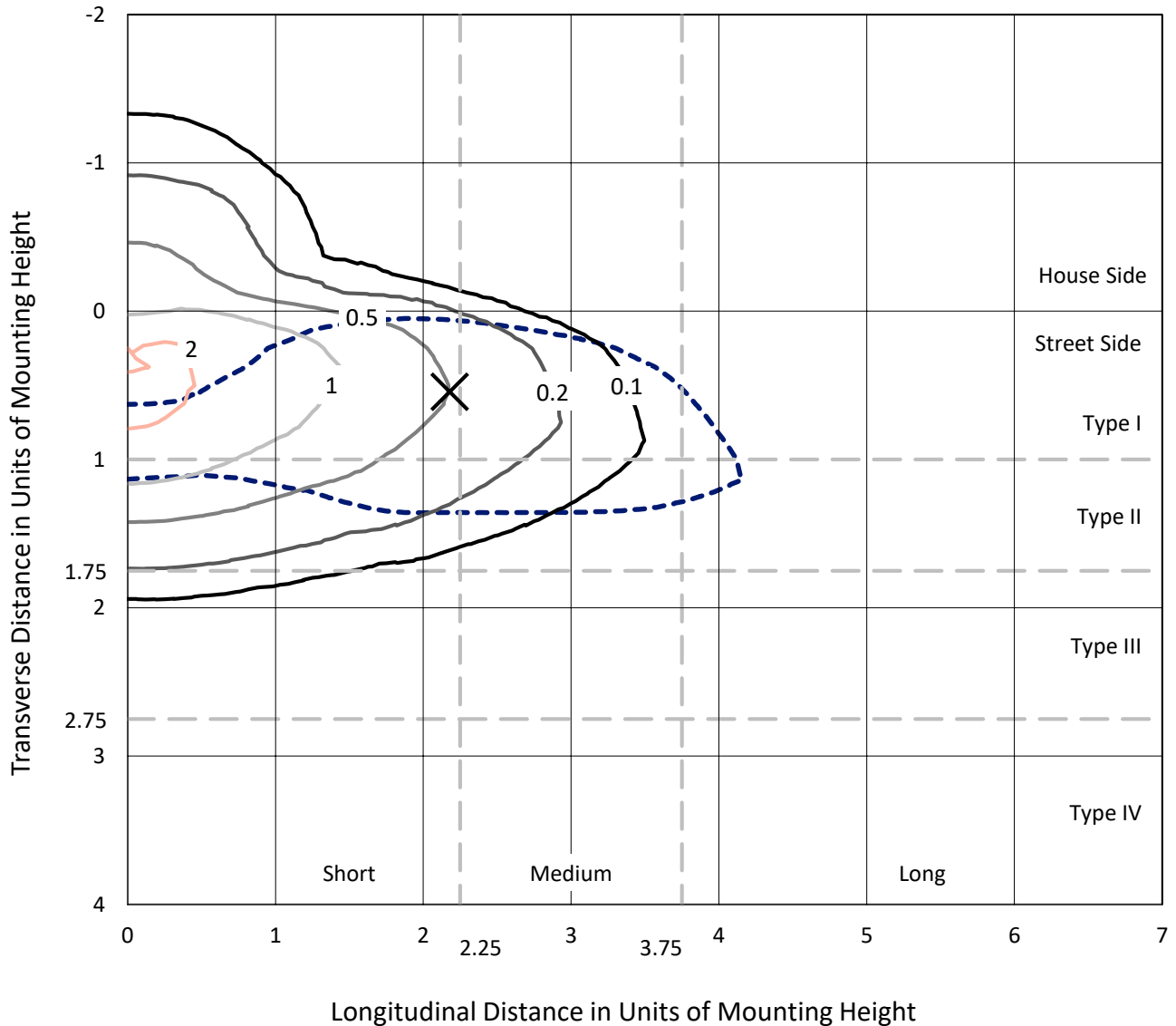
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

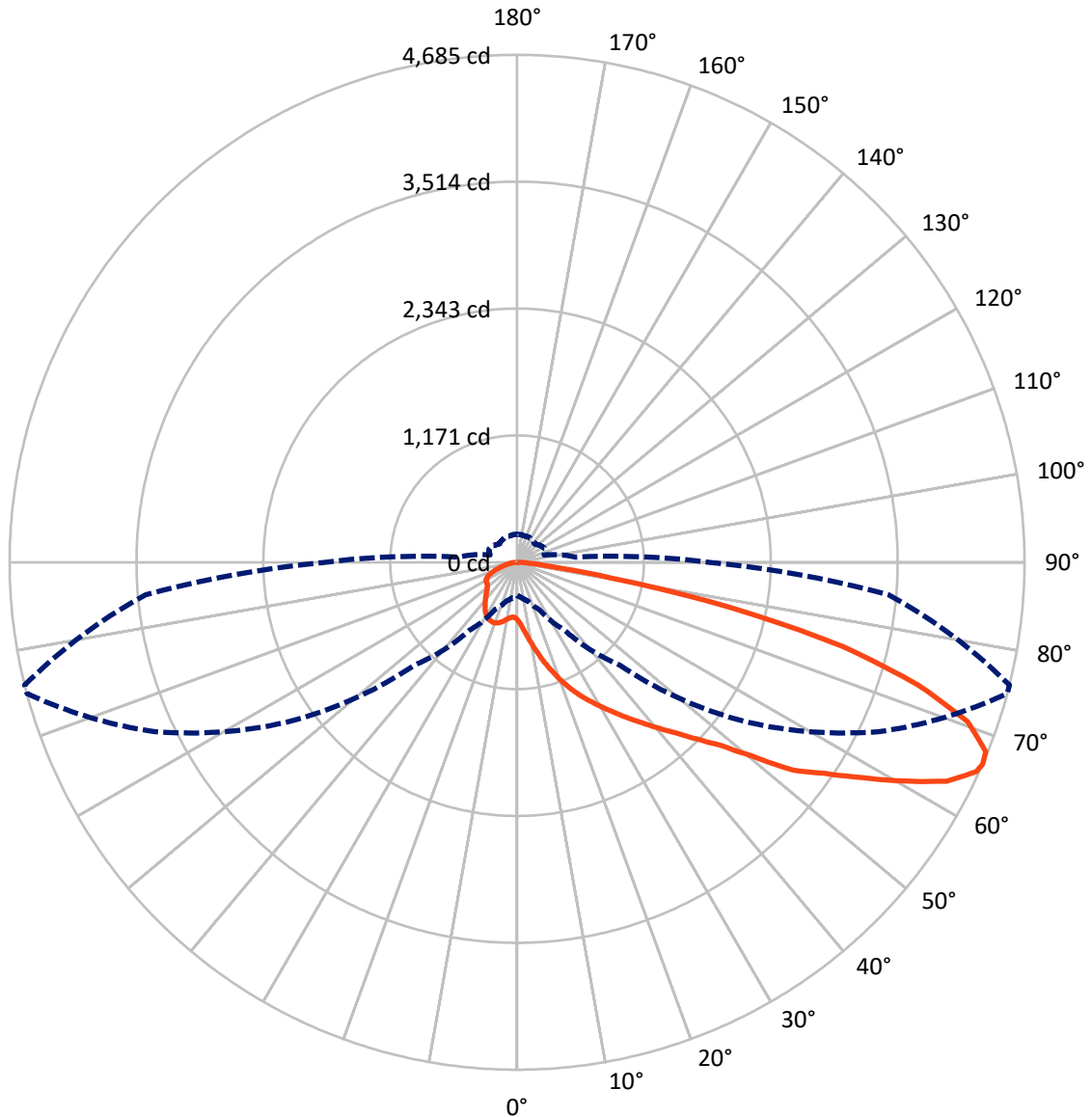
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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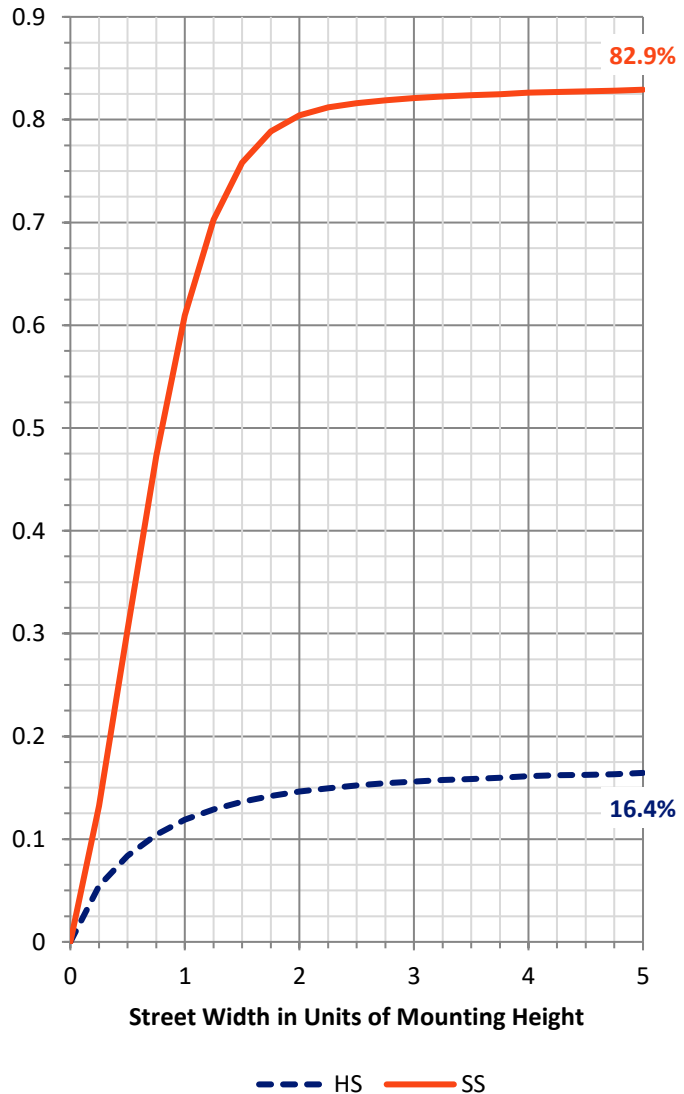
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	977.0	0.0	977.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4829.3	0.0	4829.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	5806.3	0.0	5806.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.1
10°-20°	253.2	4.4
20°-30°	492.1	8.5
30°-40°	803.1	13.8
40°-50°	1097.3	18.9
50°-60°	1278.1	22.0
60°-70°	1145.9	19.7
70°-80°	579.1	10.0
80°-90°	93.5	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°	5806.3	100.0
0°-180°	5806.3	100.0

Coefficient of Utilization



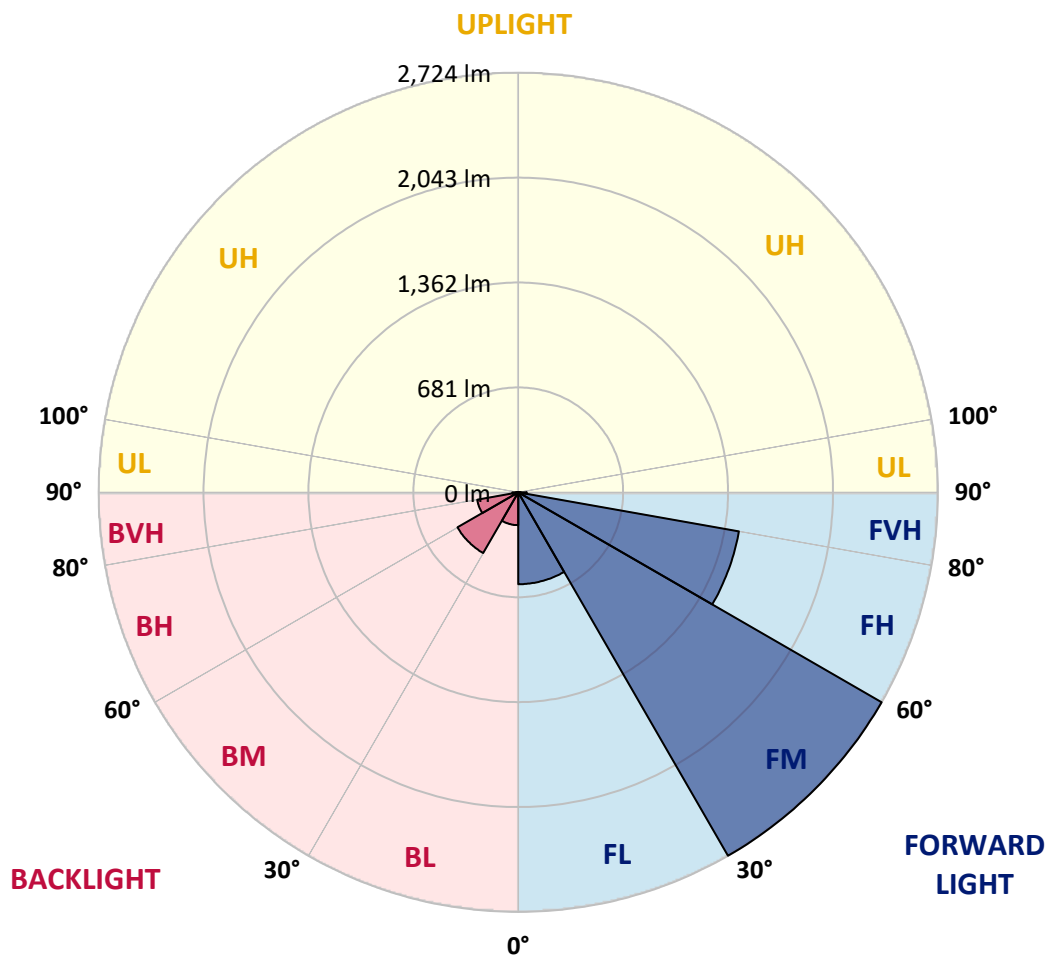
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.3	10.3			
FM (30°-60°)	2723.6	46.9			
FH (60°-80°)	1454.2	25.0			G1/1800
FVH (80°-90°)	55.2	1.0			G1/100
BL (0°-30°)	213.1	3.7	B1/500		
BM (30°-60°)	455.0	7.8	B1/1000		
BH (60°-80°)	270.7	4.7	B1/500		G1/500
BVH (80°-90°)	38.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2
2.5°	703.9	693.3	692.3	676.7	673.1	643.4	621.5	598.6	572.6	567.5	547.0
5°	904.2	903.2	889.6	864.2	844.3	793.4	743.1	689.9	631.6	622.1	576.0
7.5°	1084.3	1082.7	1072.3	1044.9	1016.1	953.6	881.9	800.3	705.6	691.7	615.2
10°	1221.2	1220.5	1217.0	1196.9	1172.4	1112.5	1033.3	922.0	791.8	772.7	664.3
12.5°	1326.8	1328.0	1330.3	1323.3	1311.6	1260.6	1179.3	1050.9	883.7	864.8	718.9
15°	1398.3	1401.9	1414.1	1424.1	1430.3	1399.0	1320.3	1182.7	986.6	963.9	779.4
17.5°	1434.4	1438.4	1459.5	1489.8	1517.8	1514.7	1452.2	1308.5	1085.3	1063.5	844.4
20°	1465.6	1468.5	1492.2	1528.7	1578.1	1600.0	1564.9	1429.5	1193.6	1167.5	913.5
22.5°	1555.9	1559.6	1566.7	1587.4	1631.1	1671.4	1654.4	1544.0	1292.7	1268.5	978.9
25°	1730.1	1734.6	1719.3	1701.8	1710.0	1738.0	1741.2	1648.5	1393.2	1365.8	1049.3
27.5°	1940.0	1946.6	1920.3	1875.2	1835.8	1824.9	1821.2	1734.1	1489.3	1457.5	1118.9
30°	2145.6	2156.9	2122.8	2064.2	1991.9	1941.1	1903.3	1817.8	1583.8	1553.4	1184.5
32.5°	2346.5	2342.0	2292.4	2235.3	2150.6	2086.9	1995.8	1907.7	1690.3	1655.4	1249.8
35°	2484.1	2485.6	2439.7	2371.9	2291.1	2242.2	2119.6	2004.7	1798.9	1766.8	1323.8
37.5°	2601.2	2593.9	2541.8	2478.6	2409.0	2388.1	2264.5	2111.5	1916.6	1881.5	1402.7
40°	2640.2	2631.7	2597.6	2552.1	2496.3	2494.5	2424.4	2232.5	2049.7	2014.9	1491.6
42.5°	2616.5	2605.7	2591.8	2579.3	2562.1	2570.0	2574.6	2374.5	2195.9	2157.1	1594.5
45°	2529.2	2512.8	2522.7	2549.7	2587.0	2631.5	2710.2	2531.6	2359.7	2327.2	1715.4
47.5°	2395.0	2380.2	2410.9	2468.7	2570.0	2682.8	2838.5	2705.0	2555.2	2522.9	1887.4
50°	2206.2	2210.5	2254.4	2359.5	2512.7	2706.4	2996.6	2934.7	2839.5	2809.4	2122.2
52.5°	1896.3	1897.1	2020.9	2193.3	2410.9	2694.2	3084.4	3228.2	3227.6	3191.1	2345.7
55°	1608.5	1626.0	1724.0	1953.3	2246.1	2645.3	3145.6	3370.9	3482.5	3439.7	2554.0
57.5°	1327.4	1337.6	1430.5	1660.8	2011.0	2515.0	3208.5	3542.2	3776.2	3749.2	2813.1
60°	1007.7	1023.4	1119.4	1332.1	1710.2	2283.8	3214.4	3721.0	4127.3	4100.1	3102.2
62.5°	654.0	681.2	771.1	970.4	1346.4	1951.3	3077.2	3837.9	4460.0	4450.4	3358.9
65°	375.9	396.4	458.9	612.7	928.8	1533.8	2751.0	3793.0	4664.8	4659.3	3454.9
66°	307.1	319.9	367.9	478.8	766.4	1346.9	2561.4	3698.2	4685.1	4685.3	3443.8
67.5°	245.6	251.3	272.9	342.8	565.5	1067.6	2222.5	3489.0	4659.9	4666.8	3372.7
70°	203.3	206.2	212.9	229.8	308.7	643.8	1577.6	2945.6	4406.6	4411.9	3095.0
72.5°	182.3	184.1	186.7	189.0	217.8	359.8	963.5	2356.3	3863.5	3870.4	2671.8
75°	165.2	166.2	165.8	166.0	182.8	229.3	497.9	1759.3	3123.9	3110.2	2046.7
77.5°	145.0	146.1	144.1	144.5	161.6	176.2	247.8	1231.6	2108.2	2010.8	1153.2
80°	122.6	123.4	122.6	124.0	140.8	133.0	144.1	692.9	932.2	881.7	410.0
82.5°	92.7	96.0	98.4	103.9	115.9	94.6	96.4	269.9	283.8	270.2	125.8
85°	40.6	49.5	74.2	79.5	87.1	56.7	63.3	110.0	115.5	112.0	45.7
87.5°	10.6	11.6	36.7	46.1	48.3	25.6	32.9	50.0	52.8	50.0	15.2
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°	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2
2.5°	536.2	526.5	509.2	493.8	482.2	474.3	466.4	462.4	460.1	457.7	458.1
5°	553.3	533.8	504.1	482.9	471.1	463.6	459.7	458.1	457.1	454.8	454.8
7.5°	579.1	551.6	510.6	488.9	479.6	473.9	471.5	470.7	469.5	466.8	467.2
10°	611.7	573.0	524.2	503.0	494.6	488.2	484.9	483.8	481.5	478.4	478.8
12.5°	649.9	599.6	542.1	520.0	509.7	501.3	495.8	492.4	488.7	484.5	484.7
15°	691.7	628.6	561.4	535.2	521.2	509.4	500.5	494.7	488.9	483.8	483.6
17.5°	734.1	656.6	576.2	543.5	524.6	509.0	497.0	488.0	480.8	474.4	473.9
20°	779.8	681.8	584.5	542.6	518.2	499.7	483.8	472.7	464.6	458.3	457.3
22.5°	826.3	705.5	585.9	534.6	504.2	481.5	464.8	452.5	444.3	437.8	435.4
25°	868.9	723.8	580.1	519.1	484.7	460.3	443.9	431.5	424.8	417.1	414.7
27.5°	907.7	736.7	568.7	499.1	462.8	438.8	423.4	412.8	405.5	399.5	397.6
30°	942.6	743.6	550.0	475.5	440.3	418.5	405.5	398.1	391.9	384.4	383.0
32.5°	975.7	743.6	526.0	449.7	418.1	400.6	392.8	388.4	381.2	373.9	372.0
35°	1008.9	739.0	497.5	422.6	397.6	387.7	387.3	382.0	371.1	361.3	358.7
37.5°	1043.7	729.8	465.6	397.4	380.8	382.0	385.4	373.6	358.2	344.2	340.4
40°	1083.2	716.9	432.5	375.5	366.8	379.4	380.1	361.3	331.4	318.6	315.2
42.5°	1129.5	704.1	401.7	356.2	355.8	371.8	370.0	334.9	317.0	310.5	308.7
45°	1190.4	696.8	372.5	337.9	347.1	359.4	352.9	320.4	312.8	309.1	307.5
47.5°	1286.4	700.5	345.8	323.2	338.4	346.9	320.9	314.4	309.1	304.5	302.9
50°	1406.6	698.4	324.1	313.2	328.6	334.0	306.5	306.8	304.0	298.8	296.5
52.5°	1497.1	681.4	310.1	307.5	319.9	310.9	297.4	299.2	297.8	290.4	287.8
55°	1584.5	666.9	302.9	305.4	313.7	282.1	286.8	291.1	289.8	282.4	281.3
57.5°	1693.1	664.1	298.7	305.9	308.2	267.7	276.6	282.3	281.3	278.2	277.5
60°	1826.1	664.8	294.6	306.9	302.4	257.0	266.9	274.2	274.8	274.2	273.8
62.5°	1899.2	643.4	284.9	304.2	291.9	247.8	256.8	267.4	267.7	268.8	268.7
65°	1837.1	579.1	266.5	294.5	274.4	240.1	248.2	259.8	256.8	262.1	262.1
66°	1776.8	542.1	257.5	288.2	266.9	237.2	245.4	255.9	252.1	259.4	259.4
67.5°	1653.6	479.6	241.1	274.8	256.3	233.0	242.3	249.4	244.3	255.1	254.3
70°	1428.5	370.9	208.2	244.4	238.8	226.9	237.9	236.3	228.9	245.4	242.3
72.5°	1204.4	281.9	167.1	204.6	212.1	219.2	231.8	219.8	210.3	222.0	215.1
75°	934.5	211.9	132.1	159.1	179.1	207.2	224.5	200.7	187.1	185.8	182.1
77.5°	505.2	145.5	104.7	121.4	142.3	192.2	219.6	180.2	159.7	154.9	151.9
80°	200.1	94.6	76.1	92.0	99.6	170.5	207.7	156.3	131.7	127.0	122.4
82.5°	82.6	56.0	49.1	61.7	64.8	145.9	186.5	128.1	101.7	140.8	149.4
85°	35.5	30.7	29.2	32.0	36.7	102.3	148.4	97.8	109.8	98.0	77.9
87.5°	10.6	13.0	12.4	12.2	13.4	24.4	79.1	54.4	80.6	30.6	22.8
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)