

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: P318355

Luminaire Tested: **GAN-SA1B-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5451 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

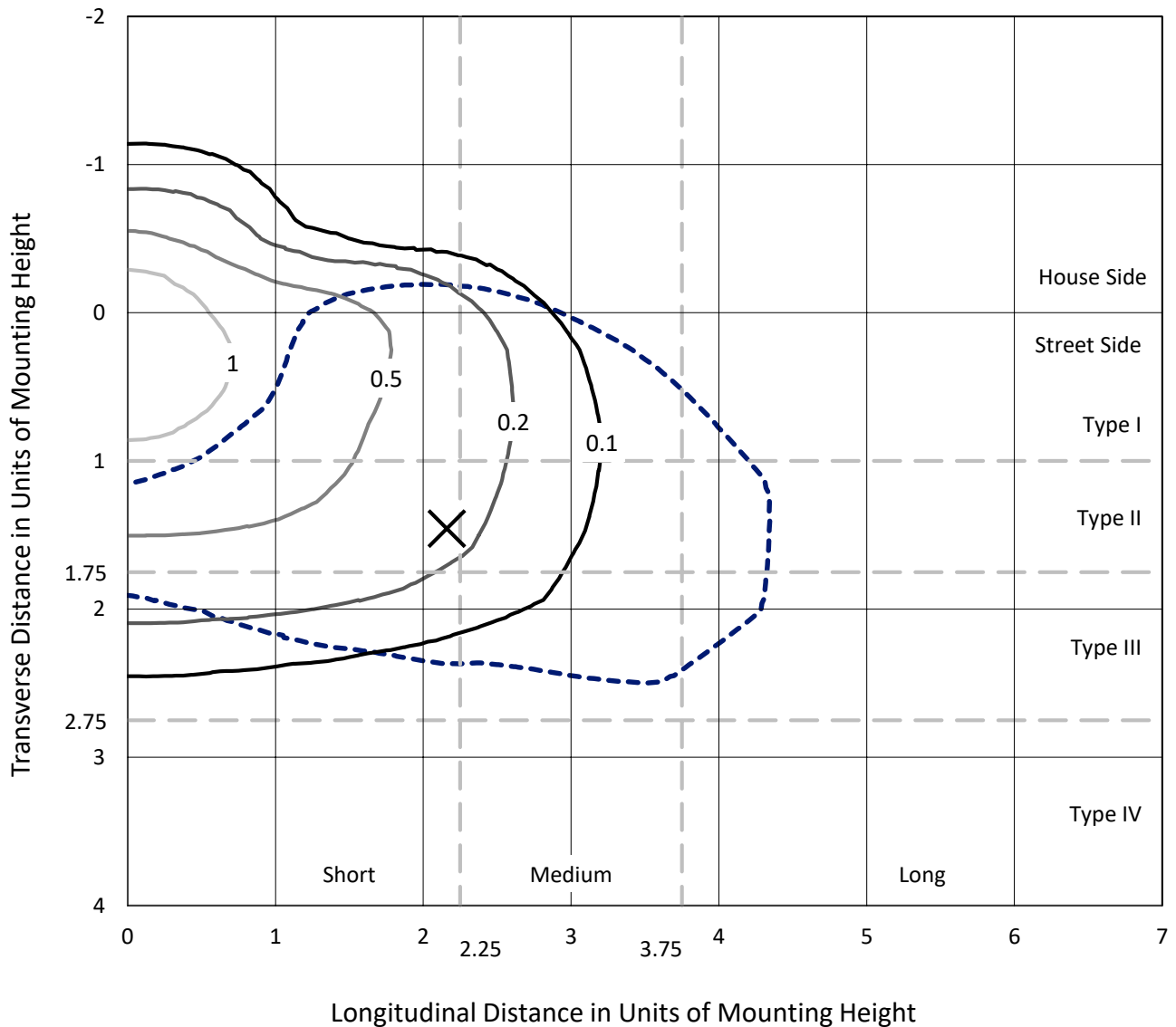
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

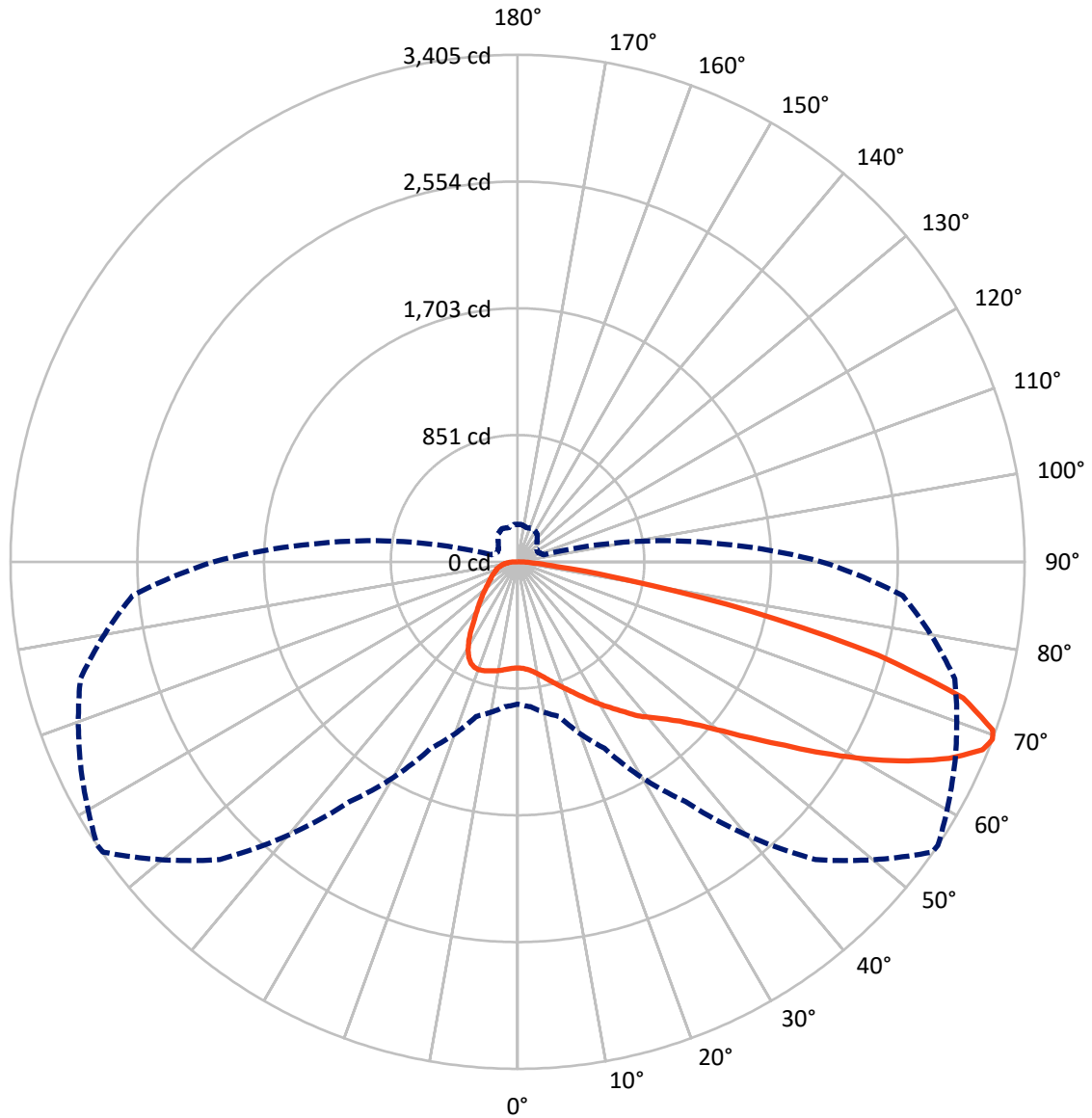
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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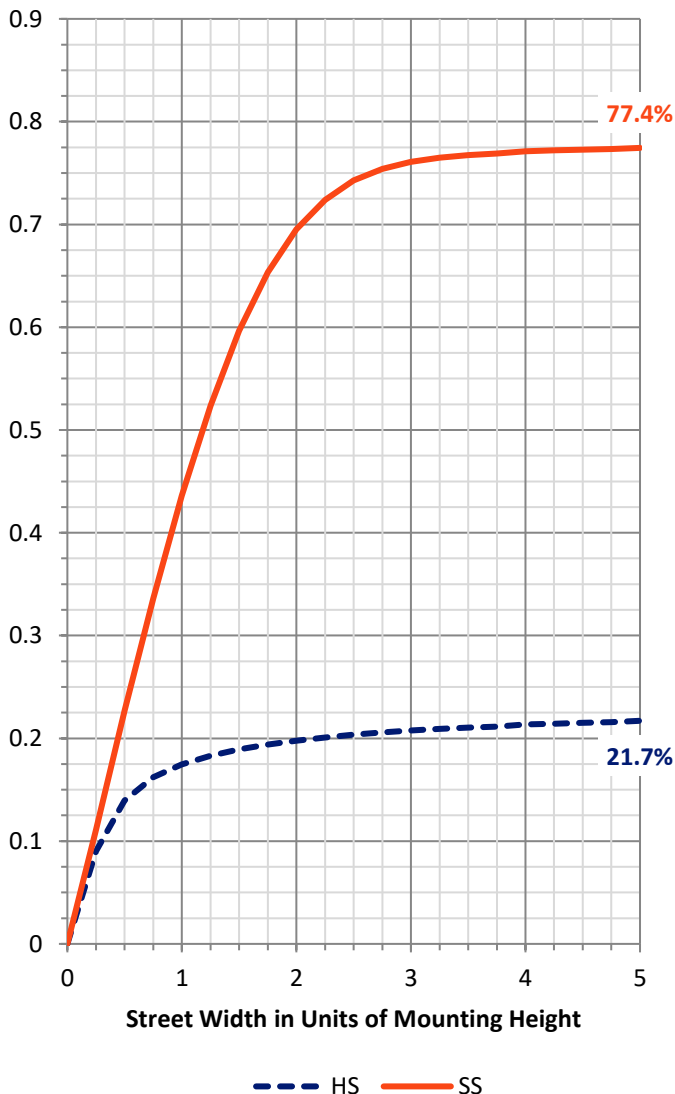
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1213.9	0.0	1213.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	4237.1	0.0	4237.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	5451.0	0.0	5451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.3
10°-20°	225.1	4.1
20°-30°	392.9	7.2
30°-40°	564.4	10.4
40°-50°	781.0	14.3
50°-60°	1144.3	21.0
60°-70°	1395.2	25.6
70°-80°	771.3	14.2
80°-90°	106.8	2.0
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°	5451.0	100.0
0°-180°	5451.0	100.0

Coefficient of Utilization

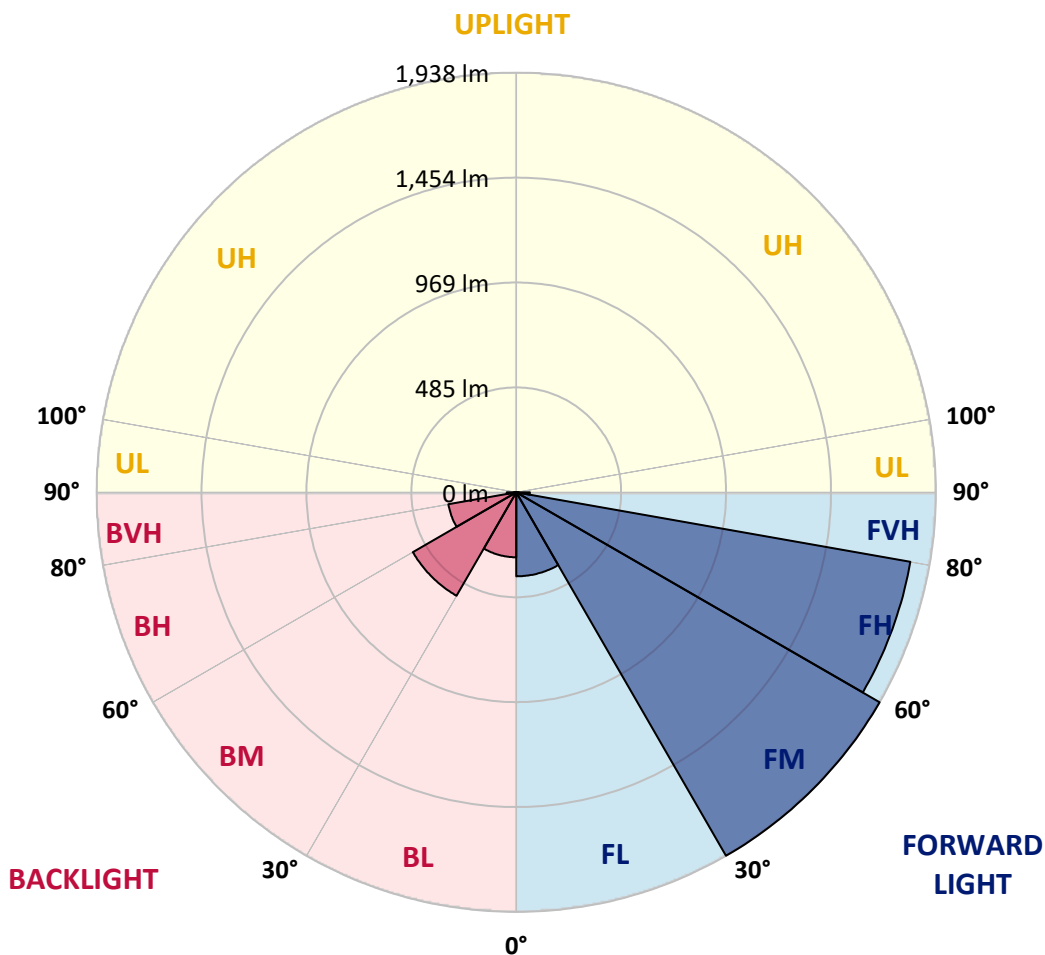


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.9	7.1			
FM (30°-60°)	1938.0	35.6			
FH (60°-80°)	1848.2	33.9			G2/5000
FVH (80°-90°)	62.9	1.2			G1/100
BL (0°-30°)	300.0	5.5	B1/500		
BM (30°-60°)	551.7	10.1	B1/1000		
BH (60°-80°)	318.3	5.8	B1/500		G1/500
BVH (80°-90°)	43.9	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6
2.5°	717.1	717.9	717.3	718.8	717.1	718.3	717.3	717.3	716.8	715.1	713.2
5°	728.4	729.9	729.0	730.5	728.4	728.8	727.1	727.1	725.4	721.8	718.1
7.5°	746.1	747.8	747.0	748.5	745.7	745.7	743.4	743.2	739.9	734.0	729.7
10°	767.1	769.3	768.6	770.8	768.6	769.3	767.1	767.1	762.6	754.3	748.9
12.5°	797.7	800.5	798.5	798.3	797.3	798.8	797.0	796.6	792.4	781.2	773.7
15°	838.6	841.6	837.3	836.9	831.7	831.1	831.1	830.6	827.9	814.4	802.0
17.5°	885.8	886.7	883.0	876.9	870.2	865.9	865.3	866.8	866.8	851.0	831.3
20°	932.0	933.7	930.7	923.9	915.3	908.9	904.4	907.4	907.2	888.4	860.4
22.5°	982.3	986.2	981.7	973.1	963.0	955.8	947.9	950.6	950.7	927.6	889.0
25°	1047.5	1043.9	1041.1	1028.9	1014.4	1007.1	999.8	1002.4	1001.6	969.9	918.4
27.5°	1105.1	1105.9	1102.1	1089.1	1072.4	1056.3	1055.9	1057.6	1054.8	1013.8	946.2
30°	1172.1	1172.5	1167.3	1155.6	1137.4	1116.6	1111.7	1114.5	1108.5	1055.5	975.5
32.5°	1238.8	1240.7	1234.9	1220.8	1206.1	1180.8	1171.0	1172.9	1157.9	1098.2	1005.8
35°	1297.2	1299.8	1298.0	1288.6	1272.6	1250.8	1239.2	1238.1	1219.5	1150.4	1045.8
37.5°	1356.7	1359.2	1357.1	1349.2	1342.8	1319.7	1313.5	1313.5	1281.2	1203.7	1096.7
40°	1417.9	1421.7	1419.3	1408.4	1402.9	1392.4	1377.6	1374.0	1339.1	1267.7	1179.7
42.5°	1474.8	1479.7	1489.5	1483.1	1472.0	1473.5	1443.7	1441.8	1416.3	1362.4	1283.9
45°	1555.6	1562.7	1579.3	1574.4	1572.1	1563.9	1528.4	1526.7	1516.9	1489.7	1413.3
47.5°	1643.7	1653.4	1683.3	1684.2	1708.4	1692.9	1644.6	1638.8	1641.0	1642.2	1571.2
50°	1724.8	1735.5	1784.5	1807.6	1864.7	1868.1	1790.9	1785.6	1794.5	1820.4	1755.2
52.5°	1789.6	1803.1	1864.3	1935.7	2033.5	2061.3	1971.0	1967.0	1973.6	2018.3	1963.3
55°	1837.1	1851.7	1918.4	2048.3	2204.6	2253.6	2178.3	2174.5	2178.7	2235.6	2189.5
57.5°	1848.2	1851.7	1948.4	2124.2	2349.0	2466.7	2432.0	2424.5	2404.2	2453.8	2439.3
60°	1796.1	1810.4	1923.6	2150.9	2460.7	2676.8	2697.1	2687.7	2630.8	2671.4	2659.8
62.5°	1690.6	1716.1	1831.1	2110.3	2504.5	2848.5	2957.2	2945.9	2847.9	2874.2	2818.2
65°	1518.2	1529.1	1649.9	1970.4	2448.9	2958.3	3189.1	3183.5	3060.1	3019.0	2847.5
67.5°	1209.9	1230.4	1332.9	1678.0	2221.5	2945.4	3368.5	3367.9	3198.7	3072.7	2743.7
69°	955.8	977.0	1074.7	1382.3	1965.7	2826.9	3398.5	3405.1	3237.8	3040.0	2595.3
70°	762.0	786.6	853.7	1164.3	1738.7	2670.6	3373.5	3385.4	3230.2	2986.1	2458.5
72.5°	324.3	344.2	391.9	600.2	1059.7	1994.3	3084.5	3129.2	3056.2	2733.0	2031.8
75°	141.6	147.8	169.4	244.7	470.4	1085.4	2416.4	2499.0	2613.2	2310.1	1513.5
77.5°	103.7	106.3	118.1	143.7	211.1	409.9	1553.9	1602.0	1884.6	1681.0	928.4
80°	80.2	82.1	91.3	105.5	137.8	165.8	708.7	750.0	1059.7	863.4	386.6
82.5°	63.8	65.2	71.5	77.7	95.2	100.5	235.3	261.0	391.2	238.5	102.3
85°	59.3	60.8	63.1	56.7	61.0	59.0	101.8	106.5	118.1	93.7	42.8
87.5°	26.9	31.7	62.5	44.1	32.5	25.9	41.7	43.6	49.0	49.2	19.0
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°	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6
2.5°	714.3	713.8	714.7	712.4	715.3	715.1	714.1	714.5	716.4	716.2	716.4
5°	718.6	718.3	719.4	717.7	721.1	722.2	722.4	724.1	726.2	726.7	726.7
7.5°	729.5	729.5	730.1	727.8	730.1	729.9	729.0	730.7	732.7	732.9	732.7
10°	748.3	748.5	747.6	741.7	739.9	734.8	730.1	730.3	732.9	735.0	735.5
12.5°	772.0	771.2	767.1	756.4	748.5	738.2	733.3	733.1	735.7	737.4	738.0
15°	799.0	797.0	786.2	768.8	754.9	744.7	736.9	735.0	733.5	731.6	731.8
17.5°	824.6	819.9	802.0	777.8	763.1	749.6	734.4	722.2	713.8	708.9	707.4
20°	850.5	841.3	815.5	786.2	767.7	743.1	713.8	689.0	673.6	666.4	665.1
22.5°	874.1	859.3	828.1	795.1	764.1	720.9	674.9	638.8	617.4	607.9	608.6
25°	897.2	876.6	841.3	801.3	746.1	681.8	620.8	576.5	551.7	541.0	540.6
27.5°	917.5	894.0	855.5	796.2	712.4	626.3	556.8	513.6	492.9	483.7	482.2
30°	940.8	916.0	874.5	776.9	663.2	562.0	494.2	463.8	449.2	440.0	438.3
32.5°	969.1	945.9	890.1	741.7	600.3	495.0	445.4	424.2	410.9	400.5	398.7
35°	1010.5	985.3	894.0	691.4	531.2	442.0	409.6	387.8	369.7	356.4	355.1
37.5°	1062.3	1034.7	885.0	626.3	464.2	407.7	379.7	352.8	329.4	310.6	307.6
40°	1137.0	1095.3	860.0	551.1	414.8	381.2	350.6	320.0	290.9	268.9	264.6
42.5°	1226.8	1166.5	821.7	476.4	378.6	354.3	321.7	283.7	255.9	240.4	238.1
45°	1341.0	1240.5	768.6	411.1	342.9	327.5	290.5	255.6	238.3	226.8	225.0
47.5°	1471.3	1323.5	712.8	357.9	312.7	302.3	265.5	243.0	229.3	220.3	218.6
50°	1631.5	1417.2	653.7	314.3	282.2	272.1	253.7	236.0	225.2	218.2	216.5
52.5°	1812.1	1522.9	611.0	280.0	257.1	249.8	247.5	232.3	223.5	218.2	216.5
55°	2006.6	1630.5	565.0	251.1	235.3	237.4	243.4	232.7	226.7	220.3	217.8
57.5°	2201.4	1741.7	513.8	226.7	218.0	228.2	240.5	233.4	228.3	222.1	219.9
60°	2355.4	1812.1	434.3	206.2	204.3	218.0	233.8	227.8	221.2	221.4	221.0
62.5°	2427.3	1808.3	346.6	188.0	190.6	204.3	222.9	219.0	213.5	220.8	221.4
65°	2386.9	1718.2	269.8	171.4	176.0	190.0	211.6	214.6	216.5	230.6	232.5
67.5°	2217.5	1542.8	209.0	157.0	162.6	180.3	212.8	233.8	236.2	251.1	250.9
69°	2042.3	1378.3	181.6	149.5	156.0	182.7	227.4	246.0	236.8	252.6	250.3
70°	1895.5	1248.2	166.9	144.4	153.0	187.0	237.2	245.8	234.0	247.5	243.7
72.5°	1459.8	898.0	141.6	135.0	142.9	179.0	240.0	240.4	227.4	230.0	223.6
75°	1001.3	567.5	123.6	122.2	127.5	161.3	231.0	229.7	210.3	206.6	201.3
77.5°	552.1	288.2	105.0	110.0	113.6	142.9	209.9	208.1	192.1	184.2	182.3
80°	212.9	126.2	88.6	97.8	100.1	123.7	184.0	182.3	169.0	158.9	156.0
82.5°	80.4	66.1	73.2	84.7	83.9	102.2	155.9	154.9	142.0	127.1	122.6
85°	37.2	39.6	58.0	69.9	64.4	75.7	124.7	126.4	110.6	93.0	93.0
87.5°	15.8	22.2	41.1	52.8	43.4	51.1	91.5	87.3	80.2	55.6	52.2
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)