

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: P191709

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3361 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 34
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: 28.75 FT

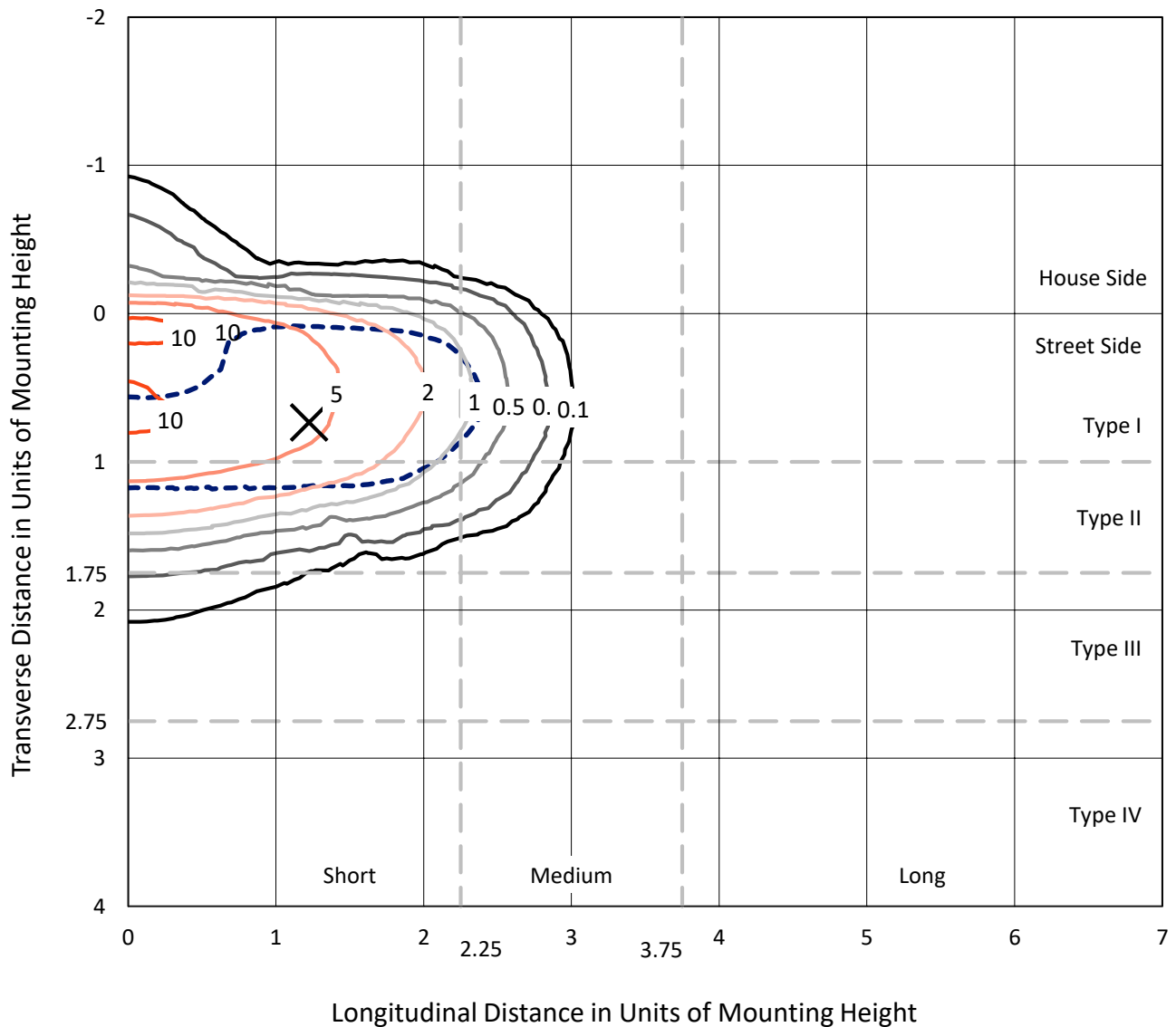


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

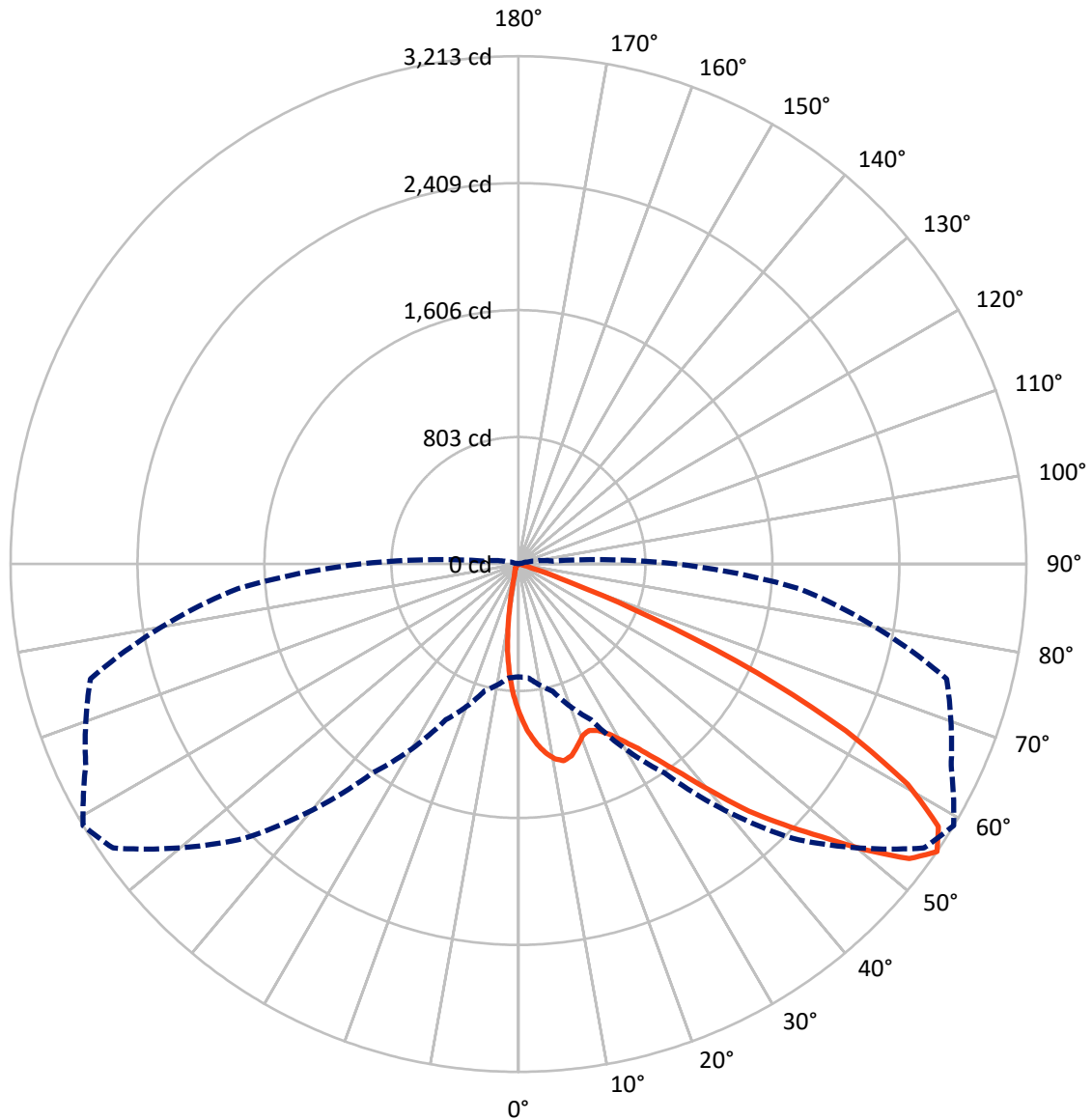


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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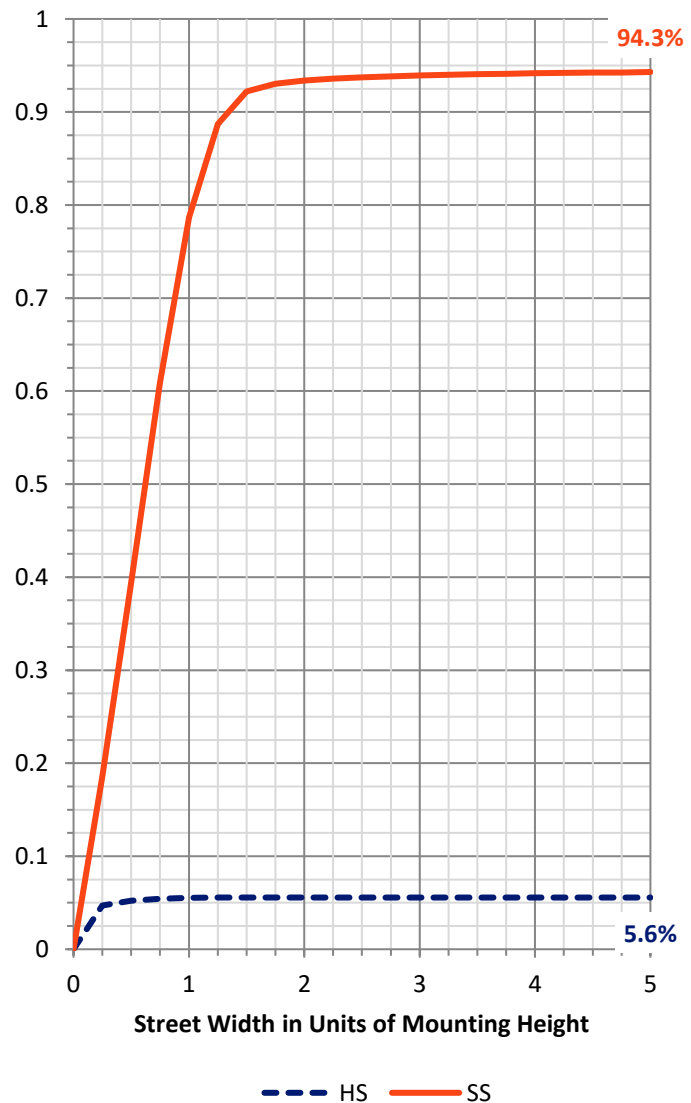
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	187.7	0.0	187.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3173.3	0.0	3173.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	3361.0	0.0	3361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	2.4
10°-20°	189.7	5.6
20°-30°	322.9	9.6
30°-40°	555.3	16.5
40°-50°	857.3	25.5
50°-60°	861.8	25.6
60°-70°	441.9	13.1
70°-80°	47.9	1.4
80°-90°	5.0	0.1
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°	3361.0	100.0
0°-180°	3361.0	100.0

Coefficient of Utilization



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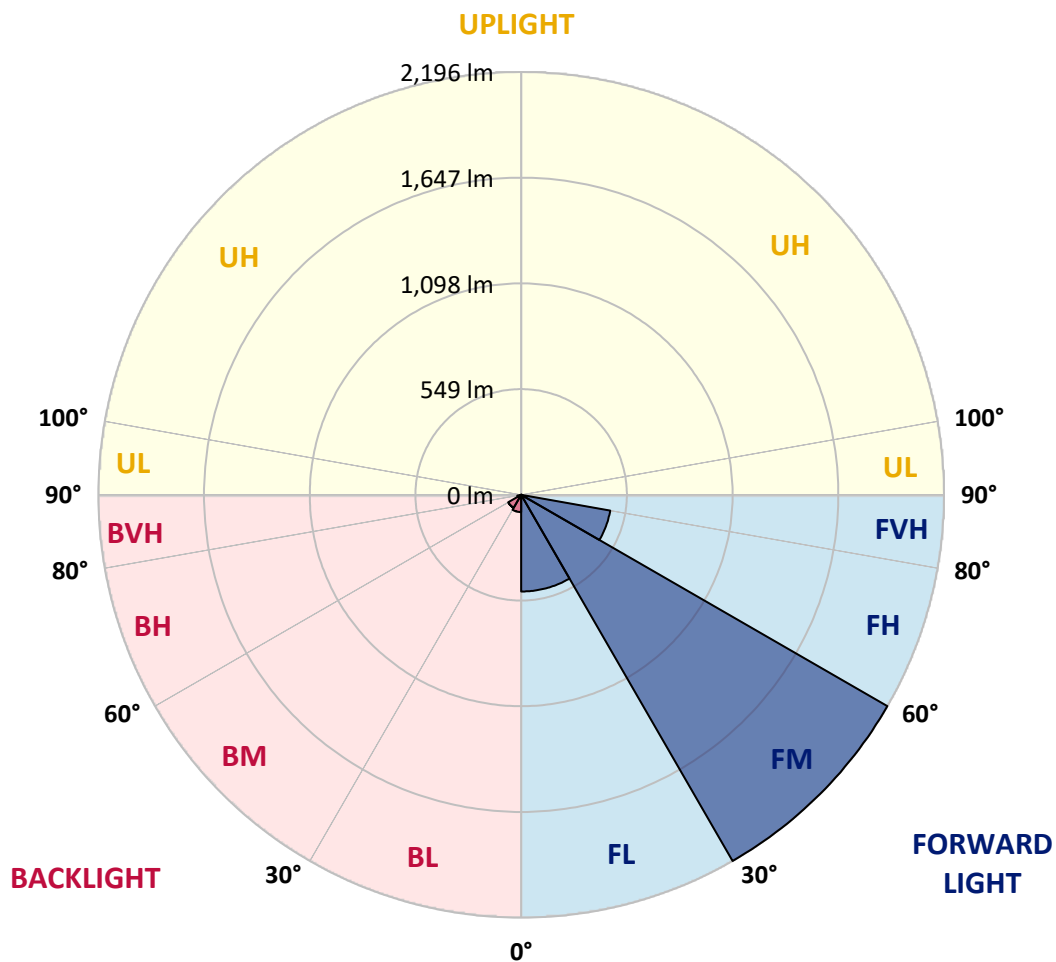
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.2	14.9			
FM	(30°-60°)	2196.4	65.3			
FH	(60°-80°)	469.7	14.0			G0/660
FVH	(80°-90°)	4.9	0.1			G0/10
BL	(0°-30°)	89.6	2.7	B0/110		
BM	(30°-60°)	77.9	2.3	B0/220		
BH	(60°-80°)	20.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	1119.5	1107.6	1104.0	1101.6	1090.7	1077.0	1058.4	1049.6	1031.8	1003.0	967.7
5°	1222.0	1219.8	1211.9	1207.5	1195.8	1176.4	1146.6	1132.4	1104.0	1055.6	992.3
7.5°	1177.2	1190.9	1201.8	1220.0	1243.0	1242.2	1217.2	1202.4	1170.6	1106.8	1019.7
10°	1004.0	1015.1	1033.0	1074.4	1158.9	1233.5	1262.9	1252.2	1226.8	1153.8	1046.1
12.5°	970.1	968.9	972.1	984.2	1028.4	1134.7	1255.1	1276.8	1271.6	1196.8	1071.1
15°	988.2	986.8	986.4	990.5	1001.2	1046.1	1197.0	1259.1	1299.0	1236.7	1092.3
17.5°	1038.7	1032.8	1029.6	1026.2	1023.1	1034.2	1127.2	1209.7	1303.1	1271.6	1109.9
20°	1125.4	1115.5	1103.8	1084.8	1066.9	1061.3	1097.8	1158.9	1288.3	1298.2	1121.4
22.5°	1234.3	1221.6	1201.4	1166.7	1130.4	1109.3	1112.3	1142.9	1266.0	1327.1	1126.8
25°	1356.7	1340.4	1313.4	1265.2	1211.9	1174.6	1155.2	1165.9	1255.9	1361.0	1133.0
27.5°	1487.8	1469.7	1434.4	1368.8	1308.3	1257.9	1218.2	1216.9	1273.2	1405.5	1142.9
30°	1617.7	1614.9	1568.9	1499.5	1419.4	1358.1	1300.9	1293.6	1321.4	1467.0	1162.5
32.5°	1791.1	1770.2	1713.9	1642.5	1550.1	1476.5	1408.9	1391.8	1395.4	1538.6	1192.9
35°	2009.6	1986.8	1907.5	1808.9	1705.6	1618.7	1543.9	1520.7	1512.0	1655.8	1244.0
37.5°	2150.9	2150.5	2100.7	2000.3	1889.4	1793.6	1712.3	1685.1	1667.5	1797.4	1323.4
40°	2154.6	2164.0	2170.5	2169.5	2090.6	2002.3	1930.1	1896.6	1855.5	1986.6	1425.9
42.5°	2039.0	2063.0	2120.7	2218.7	2265.5	2230.4	2169.5	2136.6	2075.5	2189.1	1550.9
45°	1882.7	1899.4	2000.3	2180.8	2360.3	2456.5	2410.1	2351.2	2270.7	2400.4	1662.9
47.5°	1812.7	1815.7	1880.9	2079.1	2367.5	2641.8	2669.9	2574.1	2448.0	2570.6	1750.6
50°	1603.4	1608.8	1698.8	1902.7	2283.8	2729.2	2931.0	2840.1	2641.4	2701.7	1782.5
52.5°	1208.5	1216.1	1330.3	1612.9	2053.7	2691.9	3117.8	3095.8	2853.2	2765.7	1784.3
55°	713.1	723.0	832.1	1085.7	1615.3	2454.7	3131.7	3212.6	3020.4	2803.6	1781.5
57.5°	333.0	340.0	402.4	559.3	1004.6	1940.0	2922.6	3132.5	3112.6	2823.7	1801.2
60°	176.9	178.9	194.0	242.2	454.0	1230.1	2514.6	2828.6	3028.5	2851.4	1825.2
62.5°	135.3	135.9	135.1	140.8	190.8	546.0	1900.7	2325.4	2690.0	2830.6	1798.6
65°	117.2	118.2	112.7	111.3	122.4	194.8	1129.2	1657.6	2113.8	2549.5	1617.5
67.5°	105.1	105.5	98.8	93.0	95.0	105.3	445.5	907.4	1399.1	1868.8	1172.4
70°	96.8	96.4	89.1	79.9	77.4	72.0	141.6	332.6	668.6	947.7	545.3
72.5°	85.7	85.9	82.3	70.4	64.3	50.4	65.7	97.0	199.5	258.2	127.7
75°	76.0	75.0	70.6	63.1	53.0	33.1	32.5	43.2	61.5	61.1	27.6
77.5°	54.9	54.0	55.3	51.8	40.7	21.4	16.3	20.8	25.0	24.2	7.7
80°	40.3	39.7	35.7	43.0	35.9	14.7	10.1	11.1	12.9	10.9	2.4
82.5°	27.6	27.4	25.2	23.8	20.4	8.9	6.3	6.9	8.3	6.1	1.2
85°	4.4	5.0	18.2	14.5	12.1	4.0	4.4	4.8	5.6	3.4	0.4
87.5°	0.0	0.0	8.5	7.5	2.4	1.6	2.6	2.8	2.8	1.8	0.0
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°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	949.7	929.8	893.2	855.3	820.2	778.3	749.5	727.9	702.9	696.2	710.9
5°	956.2	918.7	839.8	753.9	673.2	583.7	515.3	461.2	412.2	395.5	410.6
7.5°	966.5	910.8	782.1	640.7	500.2	360.6	265.0	202.1	162.0	150.1	156.5
10°	976.9	899.3	715.2	506.6	314.6	175.5	114.2	91.2	82.7	80.9	81.9
12.5°	985.4	883.8	633.7	360.2	168.2	94.0	74.8	71.0	69.8	69.8	70.2
15°	990.5	860.4	537.1	229.1	96.8	71.0	65.3	64.1	64.1	64.3	64.7
17.5°	989.9	830.7	431.4	138.6	72.4	62.9	59.5	58.5	58.3	58.7	58.9
20°	982.6	791.8	325.3	91.4	63.1	57.3	54.0	52.2	52.0	52.4	52.8
22.5°	968.7	743.8	232.7	70.4	56.9	52.0	47.8	46.2	46.2	46.6	47.0
25°	951.9	685.1	159.1	59.7	51.4	46.2	42.2	40.9	41.3	42.2	42.4
27.5°	930.8	619.0	108.1	51.2	44.6	40.5	37.5	36.5	37.5	38.9	39.3
30°	912.8	550.2	77.2	44.2	37.9	34.9	33.1	33.1	34.5	37.1	37.7
32.5°	898.9	483.6	59.5	39.1	32.9	30.3	29.4	30.3	32.5	35.1	35.7
35°	897.1	428.6	50.4	34.9	29.4	26.8	26.4	28.2	30.3	32.3	32.7
37.5°	910.8	377.8	45.4	31.5	26.2	23.8	23.4	25.6	27.8	30.1	30.7
40°	936.8	338.0	41.9	28.4	23.6	21.0	20.2	21.8	24.8	28.0	28.8
42.5°	970.5	305.1	37.9	25.2	21.0	17.5	16.5	18.2	21.4	24.8	25.8
45°	1002.6	276.7	33.5	21.6	17.7	13.5	13.1	15.5	17.1	20.4	21.2
47.5°	1020.3	251.7	29.8	17.7	13.7	10.9	10.9	11.5	13.1	17.1	17.9
50°	1014.3	231.7	25.8	13.1	9.5	8.3	8.3	8.1	10.5	13.7	14.3
52.5°	1002.4	220.2	22.2	10.1	6.5	6.0	5.4	6.0	7.3	8.7	8.9
55°	1000.7	218.2	18.6	8.1	4.6	4.0	3.0	3.0	3.0	2.8	2.4
57.5°	1014.5	221.4	15.7	6.5	3.4	2.6	1.6	0.0	0.0	0.0	0.0
60°	1028.8	224.7	13.5	4.6	2.4	1.4	0.2	0.0	0.0	0.0	0.0
62.5°	1005.0	217.2	11.3	2.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
65°	882.8	184.9	8.9	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	628.0	123.8	6.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	286.6	51.8	3.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	61.3	16.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	12.5	11.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.4	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)