

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: P191729

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191729
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA 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: 5102 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

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: 28.75 FT

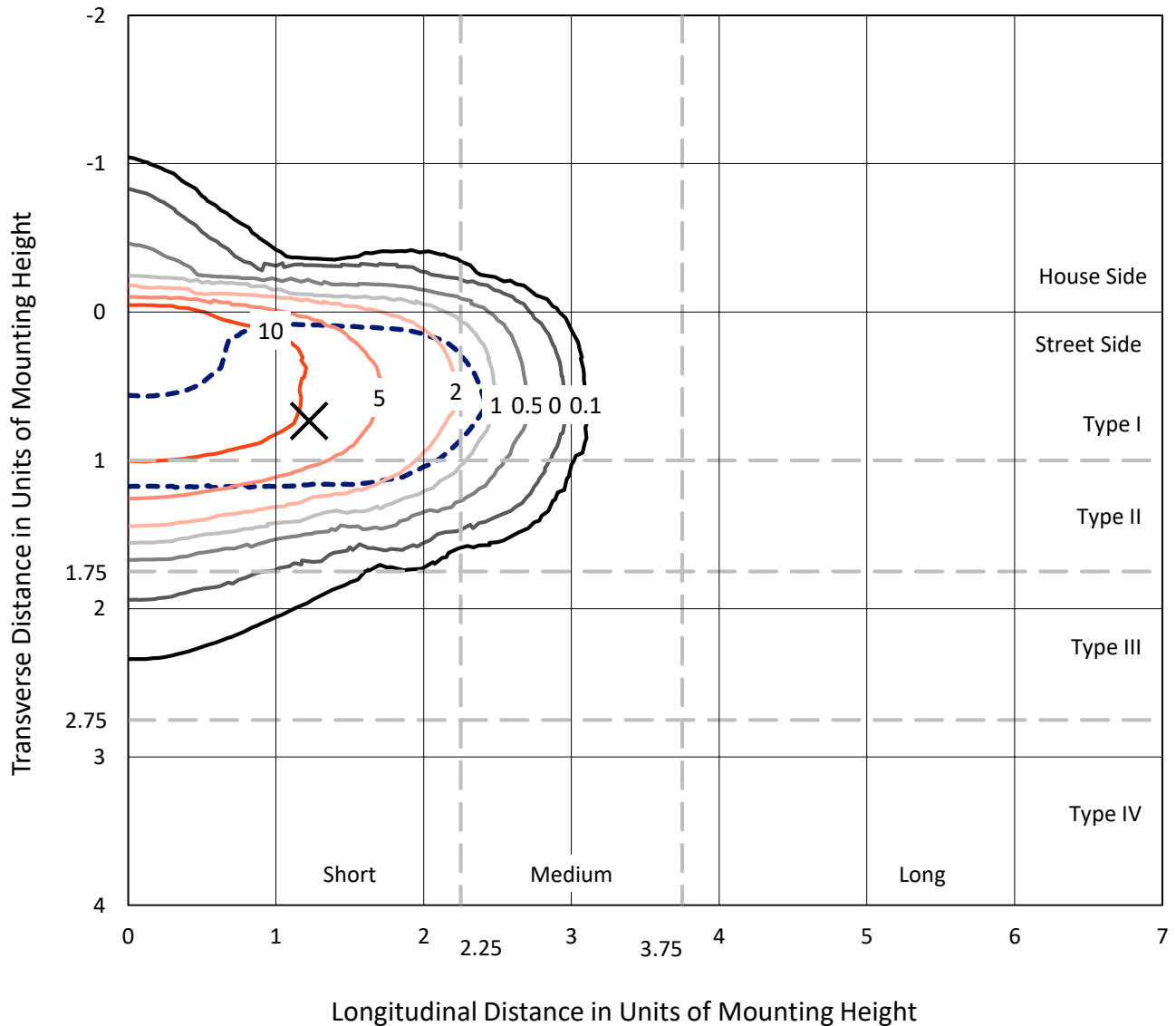


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Iso-Footcandle Lines of Horizontal Illumination

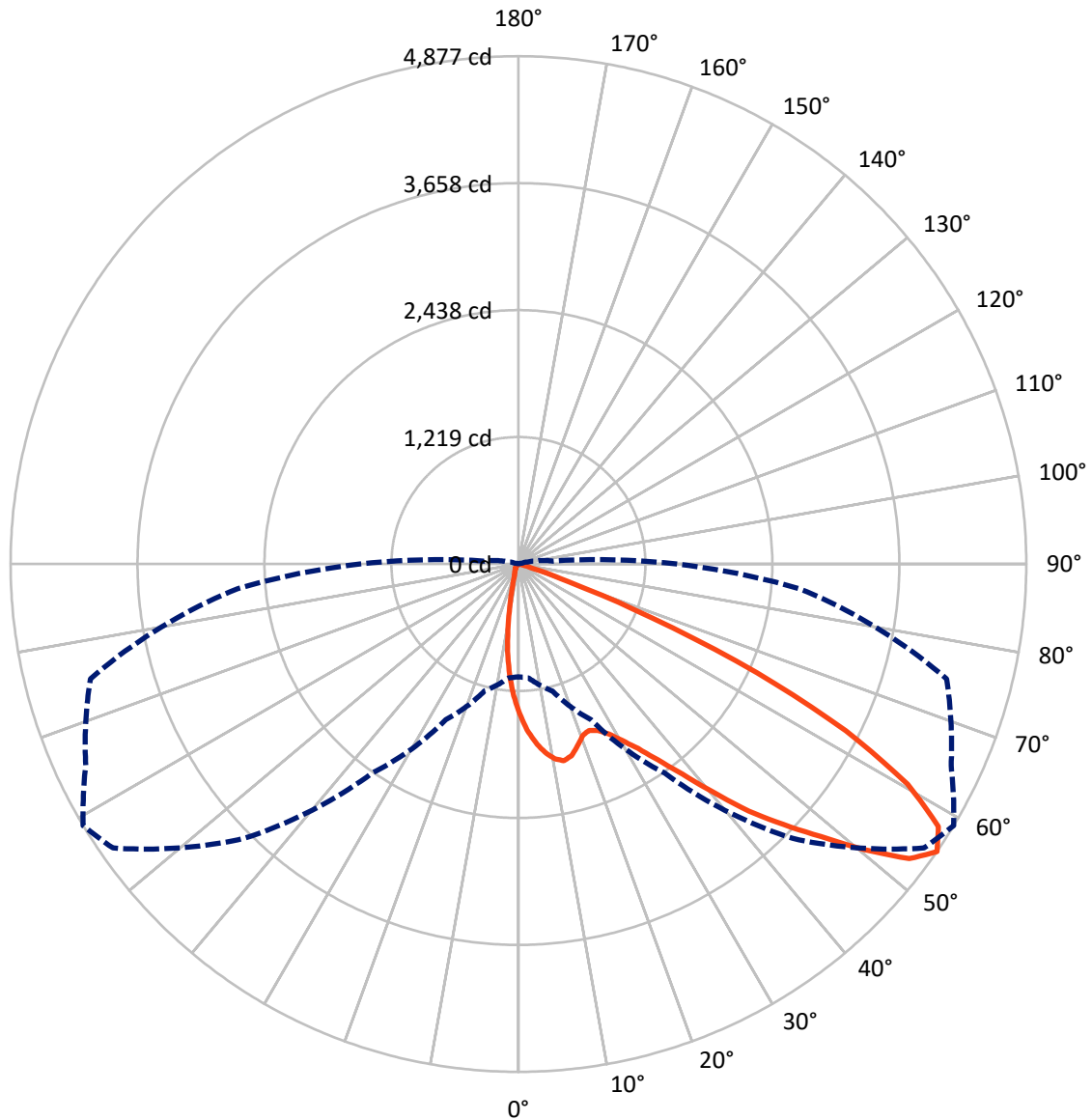
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 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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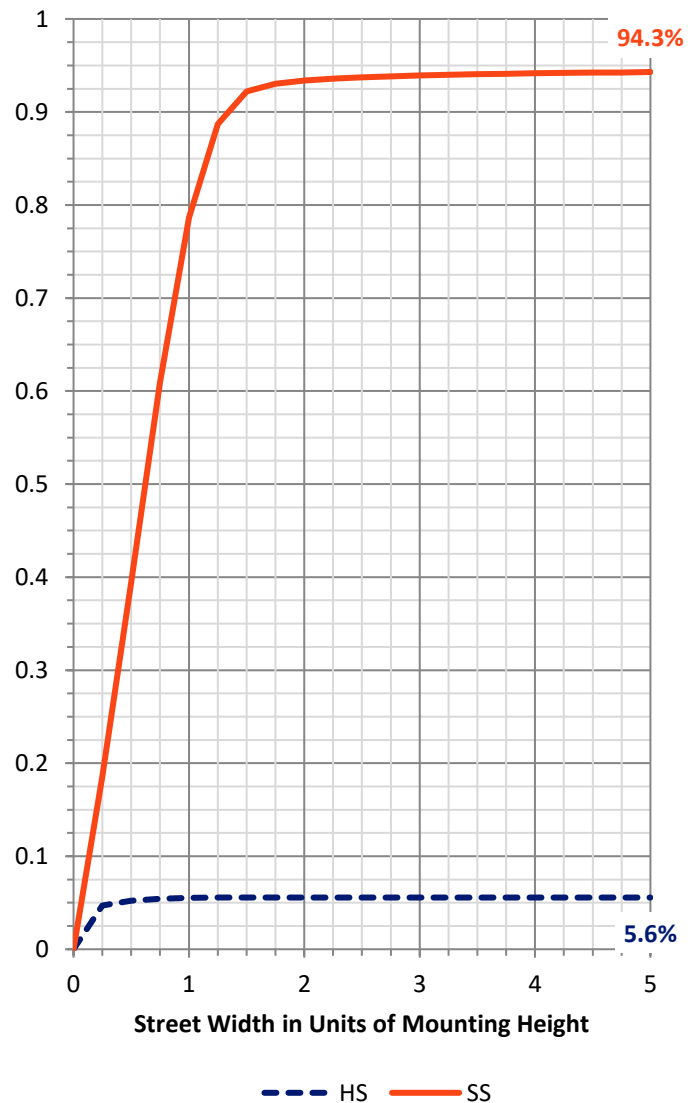
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	285.0	0.0	285.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4817.0	0.0	4817.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	5102.0	0.0	5102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	2.4
10°-20°	288.0	5.6
20°-30°	490.1	9.6
30°-40°	842.9	16.5
40°-50°	1301.3	25.5
50°-60°	1308.2	25.6
60°-70°	670.9	13.1
70°-80°	72.7	1.4
80°-90°	7.6	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°	5102.0	100.0
0°-180°	5102.0	100.0

Coefficient of Utilization



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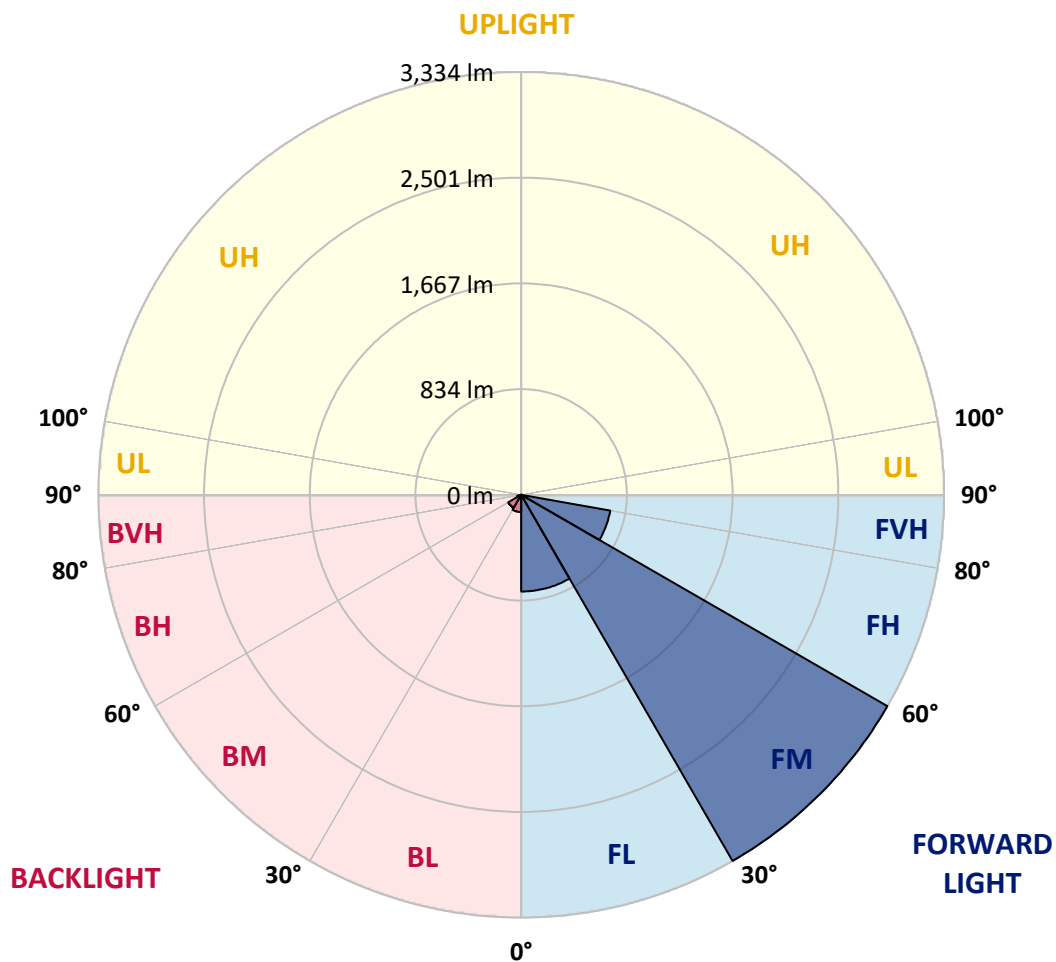
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.4	14.9			
FM	(30°-60°)	3334.1	65.3			
FH	(60°-80°)	713.0	14.0			G1/1800
FVH	(80°-90°)	7.4	0.1			G0/10
BL	(0°-30°)	136.0	2.7	B1/500		
BM	(30°-60°)	118.3	2.3	B0/220		
BH	(60°-80°)	30.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
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°	59°	65°	75°	85°
0°	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2
2.5°	1699.3	1681.3	1675.9	1672.2	1655.7	1634.9	1606.6	1593.4	1566.3	1522.6	1469.0
5°	1855.0	1851.7	1839.7	1833.0	1815.3	1785.8	1740.6	1718.9	1675.9	1602.4	1506.3
7.5°	1787.0	1807.7	1824.3	1852.0	1886.9	1885.7	1847.8	1825.2	1777.0	1680.1	1547.9
10°	1524.1	1541.0	1568.1	1631.0	1759.3	1872.5	1917.0	1900.8	1862.2	1751.4	1587.9
12.5°	1472.6	1470.8	1475.6	1494.0	1561.1	1722.5	1905.3	1938.1	1930.3	1816.8	1625.9
15°	1500.0	1497.9	1497.3	1503.6	1519.9	1587.9	1817.1	1911.3	1971.8	1877.3	1658.1
17.5°	1576.8	1567.8	1563.0	1557.8	1553.0	1569.9	1711.1	1836.3	1978.2	1930.3	1684.9
20°	1708.4	1693.3	1675.6	1646.7	1619.6	1611.1	1666.5	1759.3	1955.6	1970.6	1702.4
22.5°	1873.7	1854.4	1823.7	1771.0	1715.9	1684.0	1688.5	1734.9	1921.9	2014.6	1710.5
25°	2059.4	2034.8	1993.8	1920.6	1839.7	1783.0	1753.5	1769.8	1906.5	2066.1	1719.8
27.5°	2258.5	2231.1	2177.5	2077.8	1986.0	1909.5	1849.3	1847.2	1932.7	2133.5	1734.9
30°	2455.7	2451.5	2381.6	2276.2	2154.6	2061.6	1974.8	1963.7	2005.9	2226.9	1764.7
32.5°	2718.8	2687.2	2601.7	2493.3	2353.0	2241.3	2138.6	2112.7	2118.2	2335.5	1810.7
35°	3050.6	3016.0	2895.6	2745.9	2589.1	2457.2	2343.7	2308.4	2295.2	2513.5	1888.4
37.5°	3265.0	3264.4	3188.8	3036.5	2868.2	2722.7	2599.3	2558.1	2531.3	2728.5	2008.9
40°	3270.7	3284.9	3294.8	3293.3	3173.5	3039.5	2929.9	2879.0	2816.7	3015.7	2164.5
42.5°	3095.2	3131.6	3219.2	3368.0	3439.0	3385.7	3293.3	3243.3	3150.6	3323.1	2354.2
45°	2857.9	2883.2	3036.5	3310.5	3583.0	3729.0	3658.5	3569.1	3446.9	3643.8	2524.3
47.5°	2751.7	2756.2	2855.2	3156.0	3593.8	4010.2	4053.0	3907.5	3716.0	3902.1	2657.4
50°	2434.0	2442.1	2578.8	2888.3	3466.7	4143.0	4449.2	4311.3	4009.6	4101.1	2705.9
52.5°	1834.5	1846.0	2019.4	2448.5	3117.5	4086.4	4732.8	4699.4	4331.2	4198.4	2708.6
55°	1082.4	1097.5	1263.1	1648.2	2452.1	3726.3	4753.9	4876.7	4585.0	4255.9	2704.4
57.5°	505.5	516.1	610.9	849.1	1525.0	2945.0	4436.5	4755.1	4725.0	4286.3	2734.2
60°	268.6	271.6	294.5	367.6	689.2	1867.4	3817.2	4293.8	4597.3	4328.5	2770.6
62.5°	205.3	206.2	205.0	213.8	289.6	828.9	2885.3	3530.0	4083.4	4296.8	2730.3
65°	177.9	179.4	171.0	168.9	185.8	295.7	1714.1	2516.2	3208.7	3870.2	2455.4
67.5°	159.6	160.2	149.9	141.2	144.2	159.9	676.2	1377.5	2123.9	2836.9	1779.7
70°	146.9	146.3	135.2	121.3	117.4	109.3	215.0	504.9	1015.0	1438.6	827.7
72.5°	130.1	130.4	125.0	106.9	97.6	76.5	99.7	147.2	302.9	392.0	193.9
75°	115.3	113.8	107.2	95.7	80.4	50.3	49.4	65.6	93.3	92.7	41.9
77.5°	83.4	81.9	84.0	78.6	61.7	32.5	24.7	31.6	37.9	36.7	11.7
80°	61.1	60.2	54.2	65.3	54.5	22.3	15.4	16.9	19.6	16.6	3.6
82.5°	41.9	41.6	38.2	36.1	31.0	13.5	9.6	10.5	12.6	9.3	1.8
85°	6.6	7.5	27.7	22.0	18.4	6.0	6.6	7.2	8.4	5.1	0.6
87.5°	0.0	0.0	12.9	11.4	3.6	2.4	3.9	4.2	4.2	2.7	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°	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2
2.5°	1441.6	1411.5	1355.8	1298.3	1245.0	1181.5	1137.8	1105.0	1067.1	1056.8	1079.1
5°	1451.6	1394.6	1274.8	1144.4	1021.9	886.1	782.2	700.0	625.7	600.4	623.3
7.5°	1467.2	1382.6	1187.2	972.5	759.3	547.4	402.3	306.8	246.0	227.9	237.6
10°	1482.9	1365.1	1085.7	769.0	477.5	266.5	173.4	138.5	125.6	122.8	124.3
12.5°	1495.8	1341.7	962.0	546.8	255.3	142.7	113.5	107.8	106.0	106.0	106.6
15°	1503.6	1306.1	815.3	347.8	146.9	107.8	99.1	97.3	97.3	97.6	98.2
17.5°	1502.7	1261.0	654.9	210.5	109.9	95.4	90.3	88.8	88.5	89.1	89.4
20°	1491.6	1201.9	493.8	138.8	95.7	87.0	81.9	79.2	78.9	79.5	80.1
22.5°	1470.5	1129.1	353.2	106.9	86.4	78.9	72.6	70.2	70.2	70.8	71.4
25°	1444.9	1040.0	241.5	90.6	78.0	70.2	64.1	62.0	62.6	64.1	64.4
27.5°	1413.0	939.7	164.1	77.7	67.7	61.4	56.9	55.4	56.9	59.0	59.6
30°	1385.6	835.2	117.1	67.1	57.5	53.0	50.3	50.3	52.4	56.3	57.2
32.5°	1364.5	734.1	90.3	59.3	50.0	46.1	44.6	46.1	49.4	53.3	54.2
35°	1361.8	650.7	76.5	53.0	44.6	40.6	40.0	42.8	46.1	49.1	49.7
37.5°	1382.6	573.6	68.9	47.9	39.7	36.1	35.5	38.8	42.2	45.8	46.7
40°	1422.0	513.1	63.5	43.1	35.8	31.9	30.7	33.1	37.6	42.5	43.7
42.5°	1473.2	463.1	57.5	38.2	31.9	26.5	25.0	27.7	32.5	37.6	39.1
45°	1522.0	420.0	50.9	32.8	26.8	20.5	19.9	23.5	25.9	31.0	32.2
47.5°	1548.8	382.1	45.2	26.8	20.8	16.6	16.6	17.5	19.9	25.9	27.1
50°	1539.8	351.7	39.1	19.9	14.5	12.6	12.6	12.3	16.0	20.8	21.7
52.5°	1521.7	334.2	33.7	15.4	9.9	9.0	8.1	9.0	11.1	13.2	13.5
55°	1519.0	331.2	28.3	12.3	6.9	6.0	4.5	4.5	4.5	4.2	3.6
57.5°	1540.1	336.0	23.8	9.9	5.1	3.9	2.4	0.0	0.0	0.0	0.0
60°	1561.7	341.1	20.5	6.9	3.6	2.1	0.3	0.0	0.0	0.0	0.0
62.5°	1525.6	329.7	17.2	4.2	2.7	0.9	0.0	0.0	0.0	0.0	0.0
65°	1340.1	280.6	13.5	3.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	953.2	187.9	9.0	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	435.1	78.6	5.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	93.0	24.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.0	17.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.6	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	3.0	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)