

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: P300727

Luminaire Tested: **GAA-AF-02-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300727
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: GAA-AF-02-LED-U-AFL-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5771.2 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

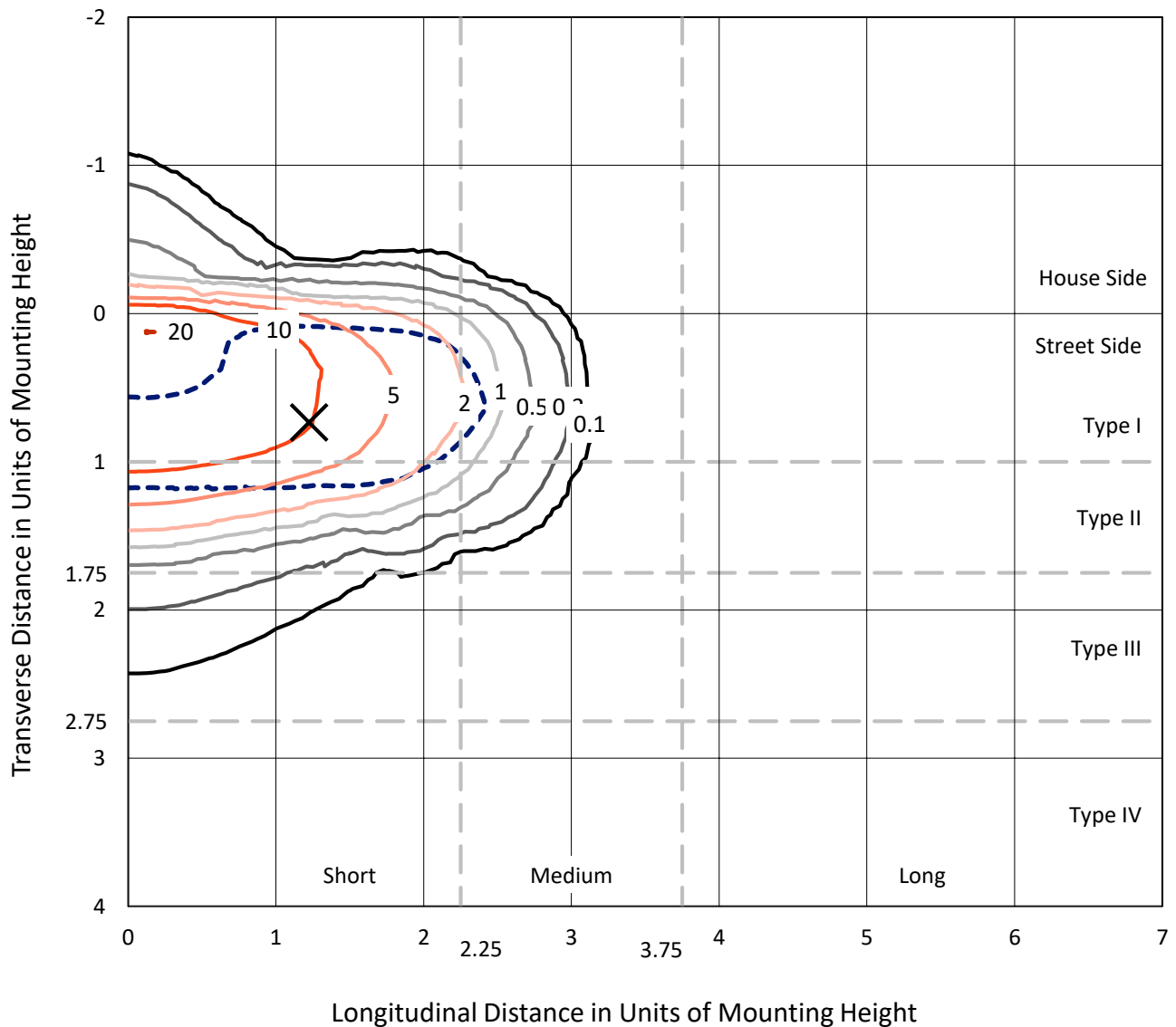


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

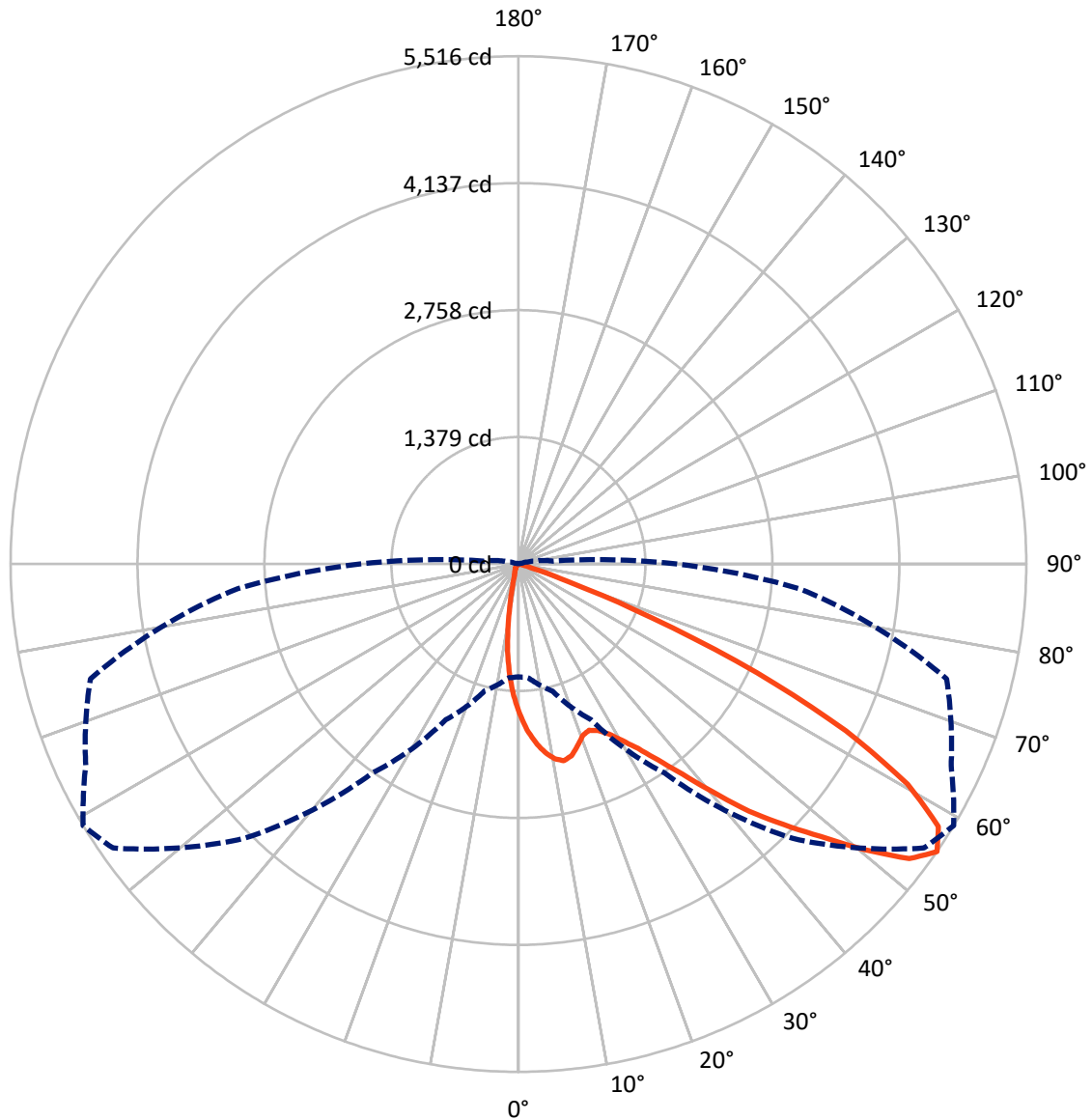


Based on 10 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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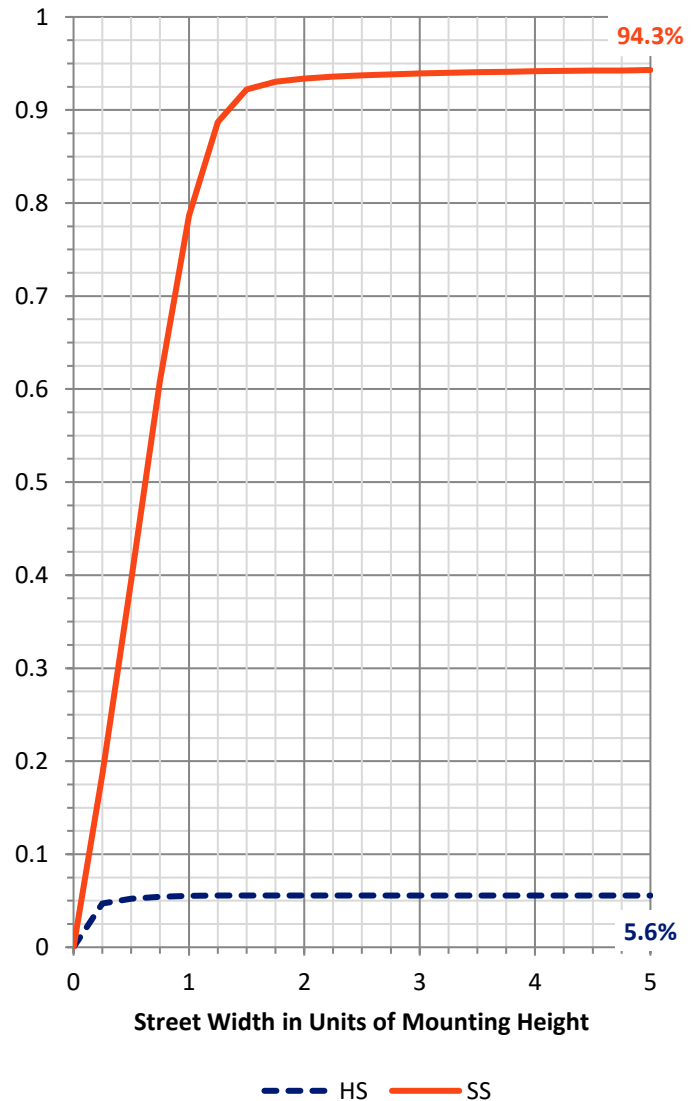
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	322.4	0.0	322.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5448.8	0.0	5448.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	5771.2	0.0	5771.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	2.4
10°-20°	325.8	5.6
20°-30°	554.4	9.6
30°-40°	953.4	16.5
40°-50°	1472.0	25.5
50°-60°	1479.8	25.6
60°-70°	758.8	13.1
70°-80°	82.2	1.4
80°-90°	8.6	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°	5771.2	100.0
0°-180°	5771.2	100.0

Coefficient of Utilization



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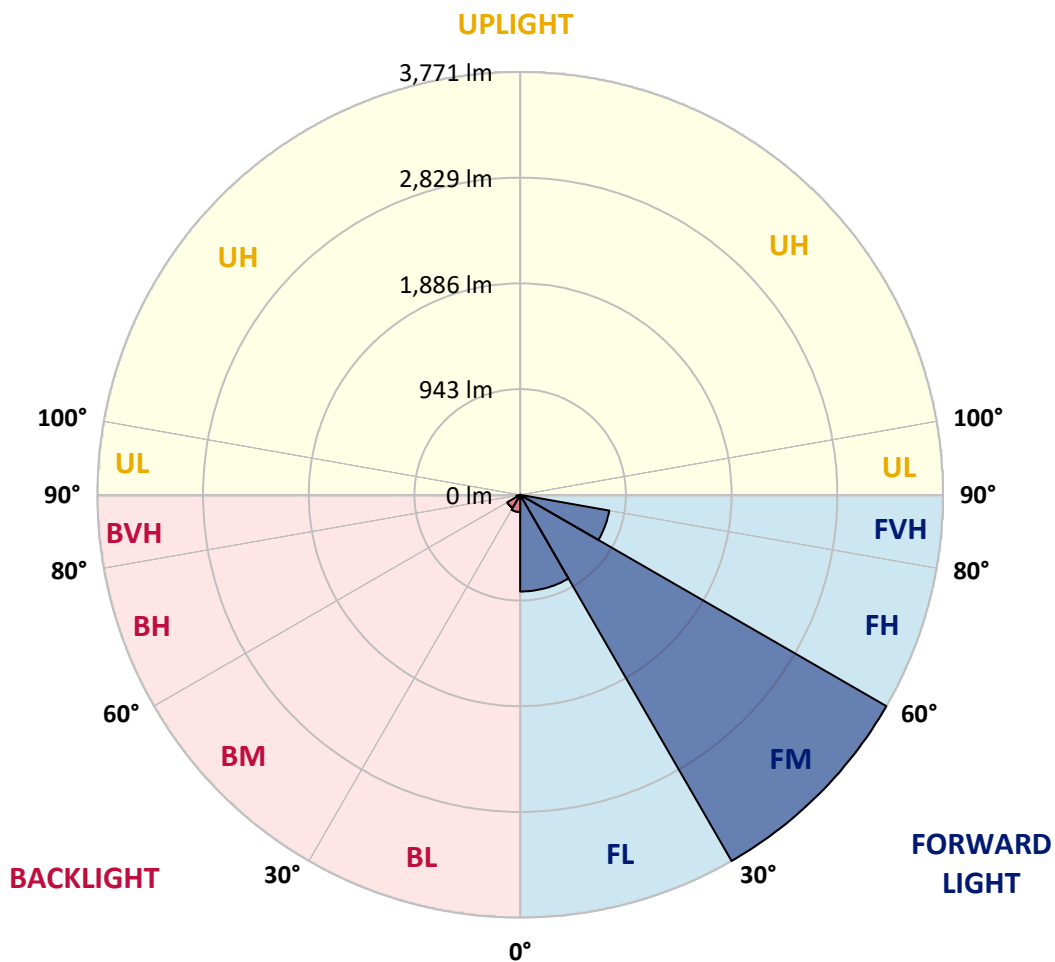
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	862.4	14.9			
FM	(30°-60°)	3771.4	65.3			
FH	(60°-80°)	806.6	14.0			G1/1800
FVH	(80°-90°)	8.4	0.1			G0/10
BL	(0°-30°)	153.9	2.7	B1/500		
BM	(30°-60°)	133.8	2.3	B0/220		
BH	(60°-80°)	34.5	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°	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6
2.5°	1922.2	1901.8	1895.7	1891.6	1872.8	1849.3	1817.3	1802.3	1771.7	1722.3	1661.7
5°	2098.3	2094.6	2080.9	2073.4	2053.4	2020.0	1968.9	1944.4	1895.7	1812.6	1703.9
7.5°	2021.3	2044.8	2063.6	2094.9	2134.4	2133.0	2090.1	2064.6	2010.1	1900.4	1750.9
10°	1724.0	1743.1	1773.7	1844.9	1990.0	2118.1	2168.5	2150.1	2106.5	1981.1	1796.2
12.5°	1665.8	1663.7	1669.2	1690.0	1765.9	1948.5	2155.2	2192.3	2183.5	2055.1	1839.1
15°	1696.8	1694.4	1693.7	1700.9	1719.2	1796.2	2055.4	2162.0	2230.5	2123.5	1875.6
17.5°	1783.6	1773.4	1767.9	1762.2	1756.7	1775.8	1935.5	2077.2	2237.6	2183.5	1905.9
20°	1932.4	1915.4	1895.3	1862.6	1832.0	1822.4	1885.1	1990.0	2212.1	2229.1	1925.6
22.5°	2119.4	2097.6	2062.9	2003.3	1941.0	1904.9	1910.0	1962.4	2173.9	2278.8	1934.8
25°	2329.6	2301.6	2255.3	2172.6	2080.9	2016.9	1983.5	2001.9	2156.5	2337.1	1945.4
27.5°	2554.7	2523.7	2463.1	2350.3	2246.5	2160.0	2091.8	2089.5	2186.2	2413.3	1962.4
30°	2777.8	2773.0	2694.0	2574.8	2437.2	2331.9	2233.9	2221.3	2268.9	2518.9	1996.1
32.5°	3075.4	3039.7	2942.9	2820.3	2661.6	2535.3	2419.1	2389.8	2396.0	2641.9	2048.2
35°	3450.7	3411.6	3275.3	3106.1	2928.6	2779.5	2651.1	2611.2	2596.2	2843.2	2136.1
37.5°	3693.2	3692.6	3607.1	3434.7	3244.4	3079.9	2940.2	2893.6	2863.2	3086.3	2272.3
40°	3699.7	3715.7	3727.0	3725.3	3589.7	3438.1	3314.2	3256.6	3186.1	3411.2	2448.4
42.5°	3501.2	3542.4	3641.5	3809.7	3890.1	3829.8	3725.3	3668.7	3563.8	3759.0	2663.0
45°	3232.8	3261.4	3434.7	3744.7	4052.9	4218.1	4138.4	4037.2	3898.9	4121.7	2855.4
47.5°	3112.6	3117.7	3229.7	3570.0	4065.2	4536.2	4584.5	4420.0	4203.4	4413.9	3006.0
50°	2753.2	2762.4	2917.1	3267.2	3921.4	4686.4	5032.7	4876.8	4535.5	4639.0	3060.8
52.5°	2075.1	2088.1	2284.3	2769.6	3526.4	4622.3	5353.6	5315.8	4899.2	4749.0	3063.8
55°	1224.4	1241.4	1428.7	1864.3	2773.7	4215.0	5377.4	5516.4	5186.3	4814.1	3059.1
57.5°	571.8	583.8	691.0	960.4	1725.0	3331.2	5018.4	5378.8	5344.7	4848.5	3092.8
60°	303.8	307.2	333.1	415.8	779.6	2112.3	4317.9	4857.0	5200.3	4896.2	3134.0
62.5°	232.3	233.3	231.9	241.8	327.6	937.6	3263.8	3992.9	4618.9	4860.4	3088.4
65°	201.3	203.0	193.4	191.1	210.1	334.4	1938.9	2846.2	3629.6	4377.8	2777.4
67.5°	180.5	181.2	169.6	159.7	163.1	180.8	764.9	1558.1	2402.4	3208.9	2013.2
70°	166.2	165.5	152.9	137.3	132.8	123.6	243.2	571.2	1148.1	1627.3	936.3
72.5°	147.1	147.5	141.3	120.9	110.3	86.5	112.7	166.5	342.6	443.4	219.3
75°	130.4	128.7	121.2	108.3	90.9	56.9	55.9	74.2	105.6	104.9	47.3
77.5°	94.3	92.6	95.0	88.9	69.8	36.8	27.9	35.8	42.9	41.6	13.3
80°	69.1	68.1	61.3	73.9	61.6	25.2	17.4	19.1	22.1	18.7	4.1
82.5°	47.3	47.0	43.3	40.9	35.1	15.3	10.9	11.9	14.3	10.6	2.0
85°	7.5	8.5	31.3	24.9	20.8	6.8	7.5	8.2	9.5	5.8	0.7
87.5°	0.0	0.0	14.6	12.9	4.1	2.7	4.4	4.8	4.8	3.1	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°	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6	1624.6
2.5°	1630.7	1596.6	1533.6	1468.6	1408.3	1336.4	1287.0	1249.9	1207.0	1195.4	1220.6
5°	1641.9	1577.6	1442.0	1294.5	1155.9	1002.3	884.8	791.8	707.7	679.1	705.0
7.5°	1659.6	1563.9	1342.9	1100.1	858.9	619.2	455.0	347.1	278.3	257.8	268.7
10°	1677.4	1544.2	1228.1	869.8	540.2	301.4	196.2	156.7	142.0	139.0	140.7
12.5°	1692.0	1517.6	1088.2	618.5	288.8	161.4	128.4	121.9	119.9	119.9	120.6
15°	1700.9	1477.4	922.3	393.4	166.2	121.9	112.1	110.0	110.0	110.3	111.0
17.5°	1699.8	1426.3	740.8	238.1	124.3	108.0	102.2	100.5	100.1	100.8	101.2
20°	1687.2	1359.6	558.5	157.0	108.3	98.4	92.6	89.6	89.2	89.9	90.6
22.5°	1663.4	1277.2	399.5	120.9	97.7	89.2	82.1	79.4	79.4	80.0	80.7
25°	1634.4	1176.4	273.1	102.5	88.2	79.4	72.5	70.2	70.8	72.5	72.9
27.5°	1598.3	1062.9	185.6	87.9	76.6	69.5	64.4	62.7	64.4	66.8	67.4
30°	1567.3	944.8	132.5	75.9	65.1	59.9	56.9	56.9	59.3	63.7	64.7
32.5°	1543.5	830.3	102.2	67.1	56.5	52.1	50.4	52.1	55.9	60.3	61.3
35°	1540.4	736.0	86.5	59.9	50.4	46.0	45.3	48.4	52.1	55.5	56.2
37.5°	1563.9	648.8	78.0	54.2	45.0	40.9	40.2	43.9	47.7	51.8	52.8
40°	1608.6	580.3	71.9	48.7	40.5	36.1	34.7	37.5	42.6	48.0	49.4
42.5°	1666.5	523.8	65.1	43.3	36.1	30.0	28.3	31.3	36.8	42.6	44.3
45°	1721.6	475.1	57.6	37.1	30.3	23.2	22.5	26.6	29.3	35.1	36.4
47.5°	1751.9	432.2	51.1	30.3	23.5	18.7	18.7	19.8	22.5	29.3	30.7
50°	1741.7	397.8	44.3	22.5	16.3	14.3	14.3	14.0	18.1	23.5	24.5
52.5°	1721.3	378.0	38.1	17.4	11.2	10.2	9.2	10.2	12.6	15.0	15.3
55°	1718.2	374.6	32.0	14.0	7.8	6.8	5.1	5.1	5.1	4.8	4.1
57.5°	1742.1	380.1	26.9	11.2	5.8	4.4	2.7	0.0	0.0	0.0	0.0
60°	1766.6	385.9	23.2	7.8	4.1	2.4	0.3	0.0	0.0	0.0	0.0
62.5°	1725.7	372.9	19.4	4.8	3.1	1.0	0.0	0.0	0.0	0.0	0.0
65°	1515.9	317.4	15.3	3.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1078.3	212.5	10.2	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	492.1	88.9	6.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	105.2	27.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.5	20.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.8	31.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.1	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.4	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)