

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: P269855

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269855  
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: GAP-AF-02-LED-U-AFL-7027-600-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES 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: 5821.2 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

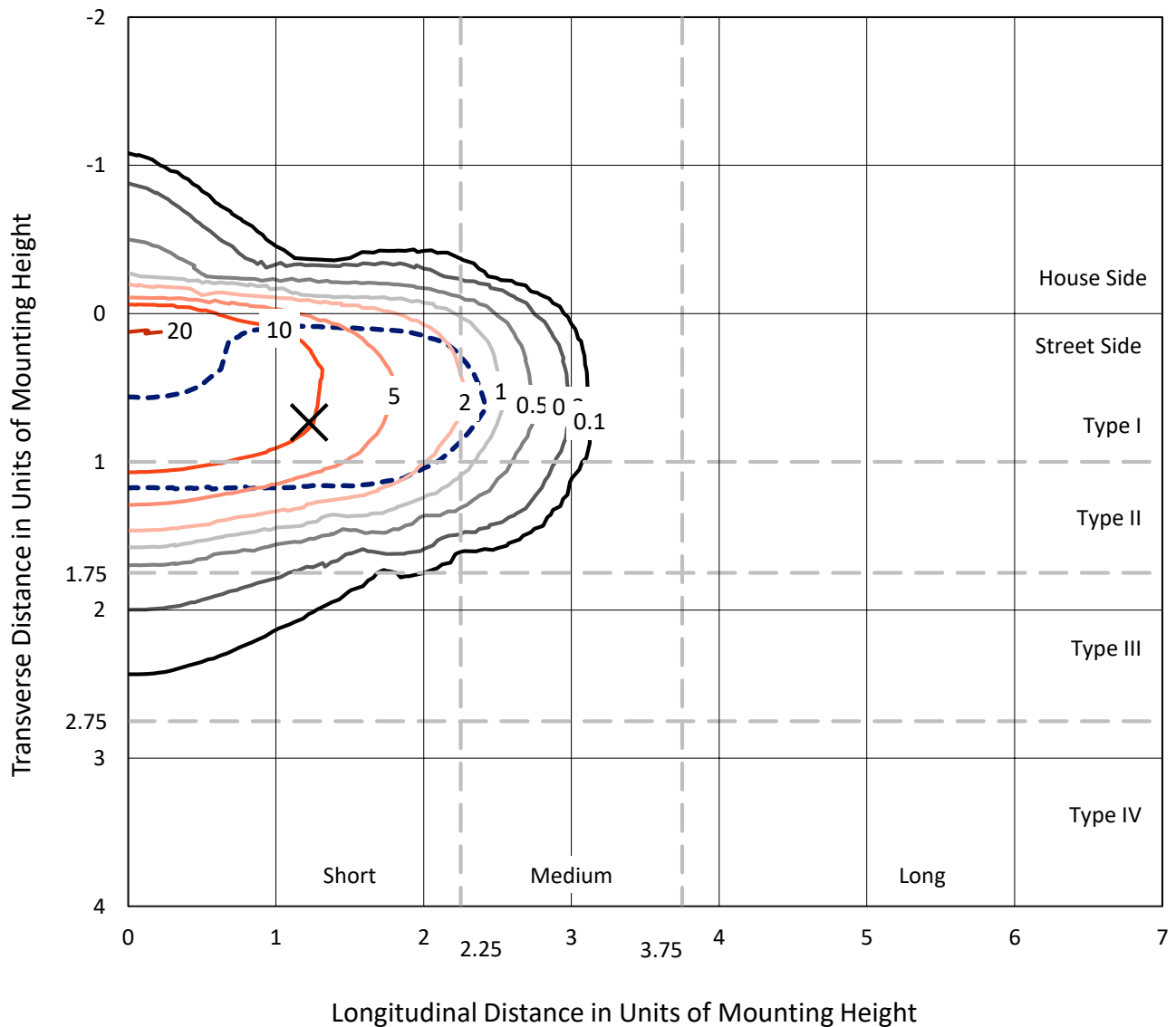


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

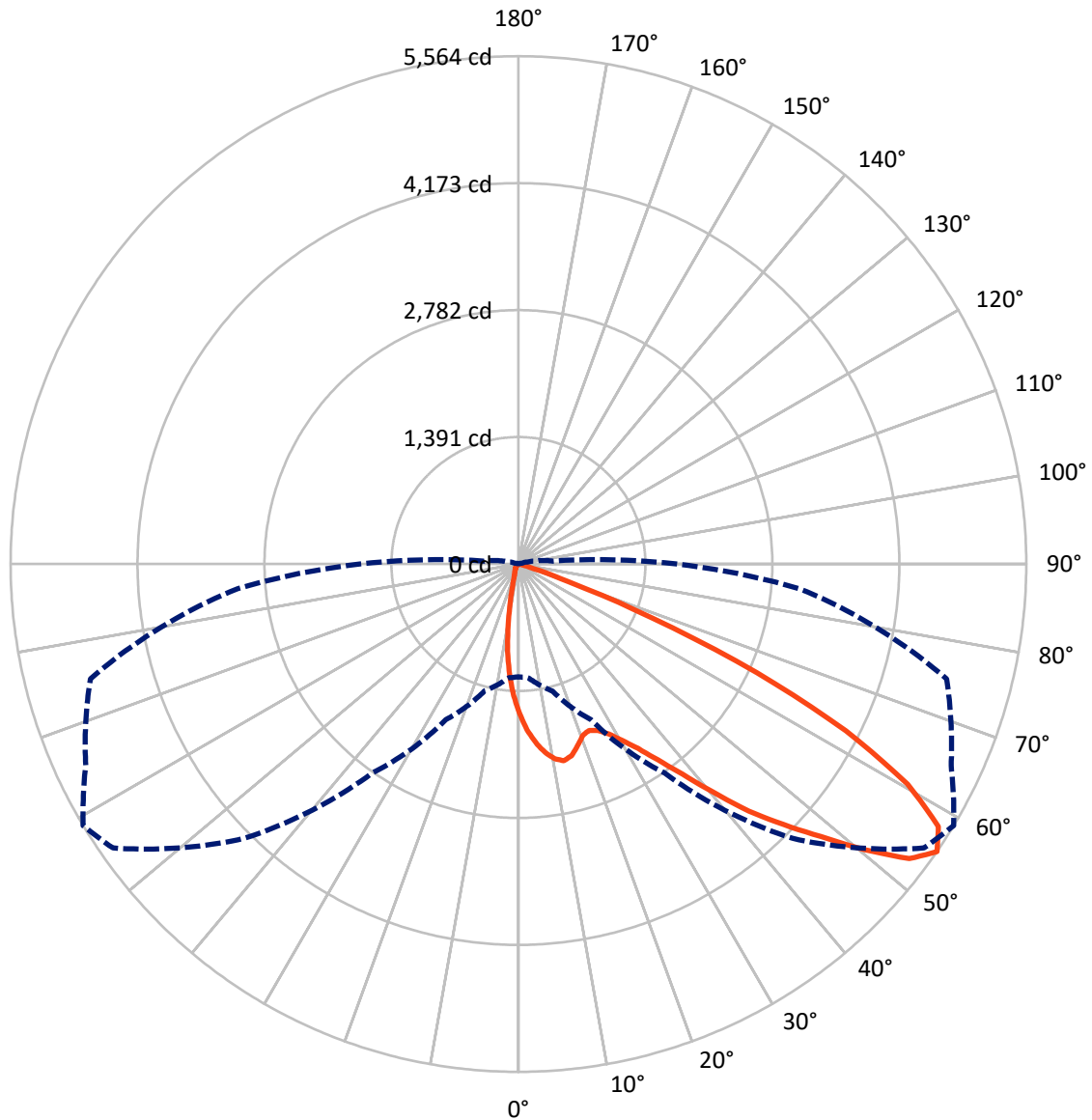


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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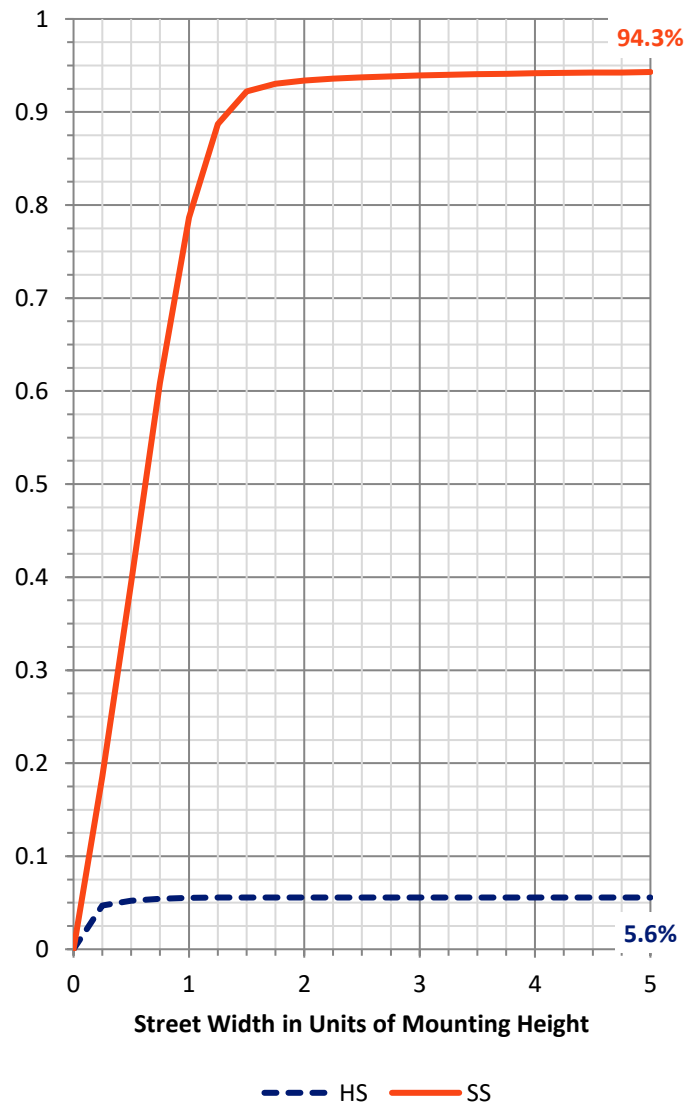
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	325.2	0.0	325.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	5496.0	0.0	5496.0
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	5821.2	0.0	5821.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.3	2.4
10°-20°	328.6	5.6
20°-30°	559.2	9.6
30°-40°	961.7	16.5
40°-50°	1484.7	25.5
50°-60°	1492.6	25.6
60°-70°	765.4	13.1
70°-80°	83.0	1.4
80°-90°	8.7	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°	5821.2	100.0
0°-180°	5821.2	100.0

**Coefficient of Utilization**



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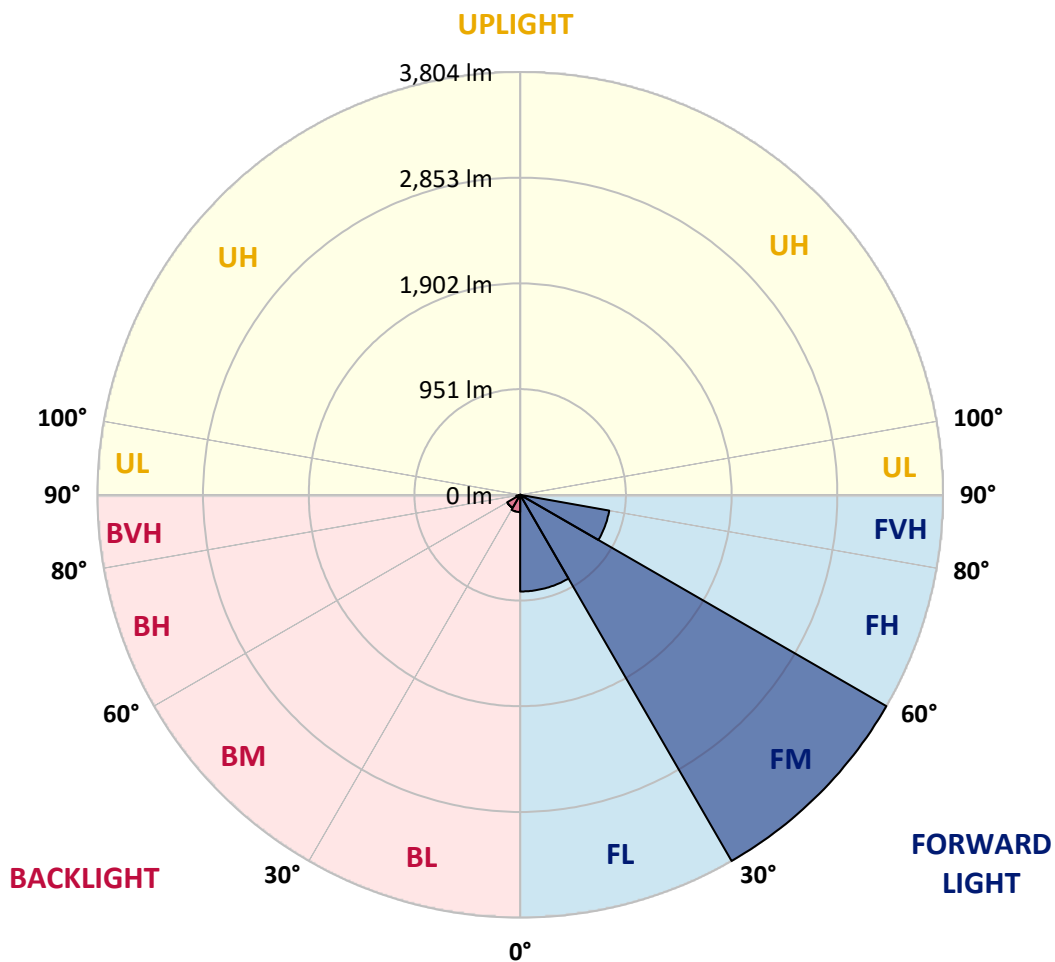
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.9	14.9			
FM (30°-60°)	3804.1	65.3			
FH (60°-80°)	813.6	14.0			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	155.2	2.7	B1/500		
BM (30°-60°)	135.0	2.3	B0/220		
BH (60°-80°)	34.8	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°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1938.9	1918.3	1912.1	1908.0	1889.0	1865.4	1833.1	1818.0	1787.1	1737.2	1676.1
5°	2116.4	2112.8	2099.0	2091.4	2071.1	2037.4	1986.0	1961.2	1912.1	1828.3	1718.6
7.5°	2038.9	2062.6	2081.5	2113.1	2152.9	2151.5	2108.2	2082.5	2027.6	1917.0	1766.1
10°	1738.9	1758.3	1789.2	1860.8	2007.3	2136.3	2187.3	2168.7	2124.8	1998.3	1811.8
12.5°	1680.2	1678.2	1683.7	1704.7	1781.2	1965.3	2173.9	2211.3	2202.4	2072.8	1855.1
15°	1711.5	1709.0	1708.3	1715.7	1734.2	1811.8	2073.2	2180.7	2249.7	2141.9	1891.8
17.5°	1799.0	1788.7	1783.2	1777.4	1771.9	1791.2	1952.2	2095.1	2257.0	2202.4	1922.5
20°	1949.2	1932.1	1911.8	1878.7	1847.9	1838.2	1901.4	2007.3	2231.2	2248.4	1942.3
22.5°	2137.7	2115.8	2080.7	2020.6	1957.8	1921.4	1926.5	1979.4	2192.8	2298.6	1951.6
25°	2349.7	2321.6	2274.9	2191.3	2099.0	2034.4	2000.7	2019.3	2175.2	2357.3	1962.3
27.5°	2576.8	2545.5	2484.4	2370.6	2266.0	2178.7	2109.9	2107.6	2205.1	2434.2	1979.4
30°	2801.9	2797.1	2717.4	2597.1	2458.3	2352.1	2253.2	2240.6	2288.6	2540.8	2013.5
32.5°	3102.0	3066.1	2968.4	2844.8	2684.7	2557.3	2440.1	2410.5	2416.7	2664.7	2066.0
35°	3480.7	3441.1	3303.7	3133.0	2953.9	2803.5	2674.1	2633.8	2618.6	2867.7	2154.7
37.5°	3725.2	3724.6	3638.3	3464.6	3272.4	3106.6	2965.7	2918.7	2888.1	3113.0	2292.0
40°	3731.7	3747.9	3759.2	3757.5	3620.8	3467.9	3343.0	3284.8	3213.7	3440.8	2469.6
42.5°	3531.4	3573.1	3673.0	3842.7	3923.7	3863.0	3757.5	3700.5	3594.7	3791.6	2686.0
45°	3260.8	3289.7	3464.6	3777.2	4087.9	4254.6	4174.2	4072.1	3932.7	4157.4	2880.1
47.5°	3139.5	3144.6	3257.8	3600.9	4100.4	4575.4	4624.3	4458.3	4239.8	4452.1	3032.0
50°	2777.1	2786.4	2942.3	3295.5	3955.3	4727.1	5076.3	4918.9	4574.8	4679.2	3087.4
52.5°	2093.1	2106.2	2304.1	2793.5	3556.8	4662.5	5399.9	5361.9	4941.7	4790.2	3090.3
55°	1235.0	1252.1	1441.2	1880.5	2797.7	4251.5	5424.0	5564.1	5231.3	4855.8	3085.6
57.5°	576.8	588.7	697.1	968.7	1739.9	3360.1	5061.9	5425.4	5391.0	4890.6	3119.6
60°	306.4	309.8	336.0	419.5	786.3	2130.6	4355.3	4899.0	5245.4	4938.6	3161.1
62.5°	234.3	235.4	234.0	243.9	330.4	945.7	3292.1	4027.6	4659.0	4902.5	3115.1
65°	203.0	204.8	195.1	192.7	212.0	337.4	1955.7	2870.9	3661.0	4415.7	2801.5
67.5°	182.0	182.7	171.0	161.2	164.6	182.4	771.6	1571.7	2423.3	3236.8	2030.6
70°	167.7	166.9	154.2	138.5	133.9	124.8	245.2	576.2	1158.0	1641.5	944.4
72.5°	148.4	148.8	142.7	122.0	111.3	87.2	113.7	168.1	345.6	447.3	221.3
75°	131.6	129.8	122.3	109.2	91.7	57.4	56.4	74.9	106.4	105.8	47.8
77.5°	95.2	93.5	95.8	89.7	70.4	37.1	28.1	36.1	43.3	42.0	13.5
80°	69.8	68.7	61.9	74.6	62.3	25.4	17.5	19.3	22.4	19.0	4.1
82.5°	47.8	47.4	43.7	41.2	35.5	15.5	11.0	12.0	14.5	10.7	2.1
85°	7.5	8.7	31.6	25.2	21.0	6.8	7.5	8.3	9.6	5.8	0.7
87.5°	0.0	0.0	14.8	13.0	4.1	2.8	4.5	4.9	4.9	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°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1644.8	1610.5	1546.9	1481.2	1420.5	1347.9	1298.2	1260.7	1217.5	1205.7	1231.1
5°	1656.1	1591.3	1454.4	1305.7	1165.9	1011.0	892.5	798.8	713.9	685.0	711.1
7.5°	1674.0	1577.6	1354.6	1109.5	866.3	624.5	458.9	350.1	280.7	260.1	271.1
10°	1691.9	1557.7	1238.8	877.4	544.8	304.0	197.8	158.0	143.3	140.1	141.9
12.5°	1706.7	1530.8	1097.5	623.9	291.3	162.9	129.5	123.0	120.9	120.9	121.6
15°	1715.7	1490.3	930.3	396.8	167.7	123.0	113.0	111.0	111.0	111.3	112.0
17.5°	1714.5	1438.6	747.2	240.1	125.5	109.0	103.0	101.4	101.0	101.7	102.0
20°	1701.8	1371.4	563.3	158.5	109.2	99.4	93.5	90.4	90.0	90.6	91.4
22.5°	1677.9	1288.2	403.0	122.0	98.6	90.0	82.9	80.0	80.0	80.8	81.4
25°	1648.6	1186.5	275.5	103.5	89.0	80.0	73.2	70.7	71.4	73.2	73.5
27.5°	1612.2	1072.1	187.2	88.7	77.3	70.1	64.9	63.2	64.9	67.4	68.0
30°	1580.9	952.9	133.7	76.6	65.7	60.5	57.4	57.4	59.7	64.3	65.2
32.5°	1556.9	837.5	103.0	67.7	57.0	52.6	50.8	52.6	56.4	60.8	61.9
35°	1553.8	742.4	87.2	60.5	50.8	46.4	45.8	48.8	52.6	56.1	56.8
37.5°	1577.6	654.4	78.7	54.6	45.4	41.2	40.6	44.3	48.1	52.2	53.3
40°	1622.5	585.3	72.6	49.1	41.0	36.4	35.0	37.8	42.9	48.5	49.9
42.5°	1680.9	528.4	65.7	43.7	36.4	30.3	28.6	31.6	37.1	42.9	44.6
45°	1736.6	479.2	58.1	37.5	30.6	23.4	22.6	26.8	29.6	35.5	36.8
47.5°	1767.1	435.9	51.6	30.6	23.7	19.0	19.0	19.9	22.6	29.6	30.9
50°	1756.8	401.3	44.6	22.6	16.4	14.5	14.5	14.2	18.2	23.7	24.8
52.5°	1736.2	381.3	38.4	17.5	11.4	10.3	9.3	10.3	12.8	15.1	15.5
55°	1733.1	377.8	32.2	14.2	7.9	6.8	5.2	5.2	5.2	4.9	4.1
57.5°	1757.2	383.3	27.2	11.4	5.8	4.5	2.8	0.0	0.0	0.0	0.0
60°	1781.9	389.2	23.4	7.9	4.1	2.4	0.4	0.0	0.0	0.0	0.0
62.5°	1740.6	376.2	19.7	4.9	3.1	1.1	0.0	0.0	0.0	0.0	0.0
65°	1529.1	320.2	15.5	3.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1087.6	214.3	10.3	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	496.5	89.7	6.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	106.2	27.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.6	20.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.8	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.1	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.5	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)