

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: P649190

Luminaire Tested: **GLAN-SA1D-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6188.8 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

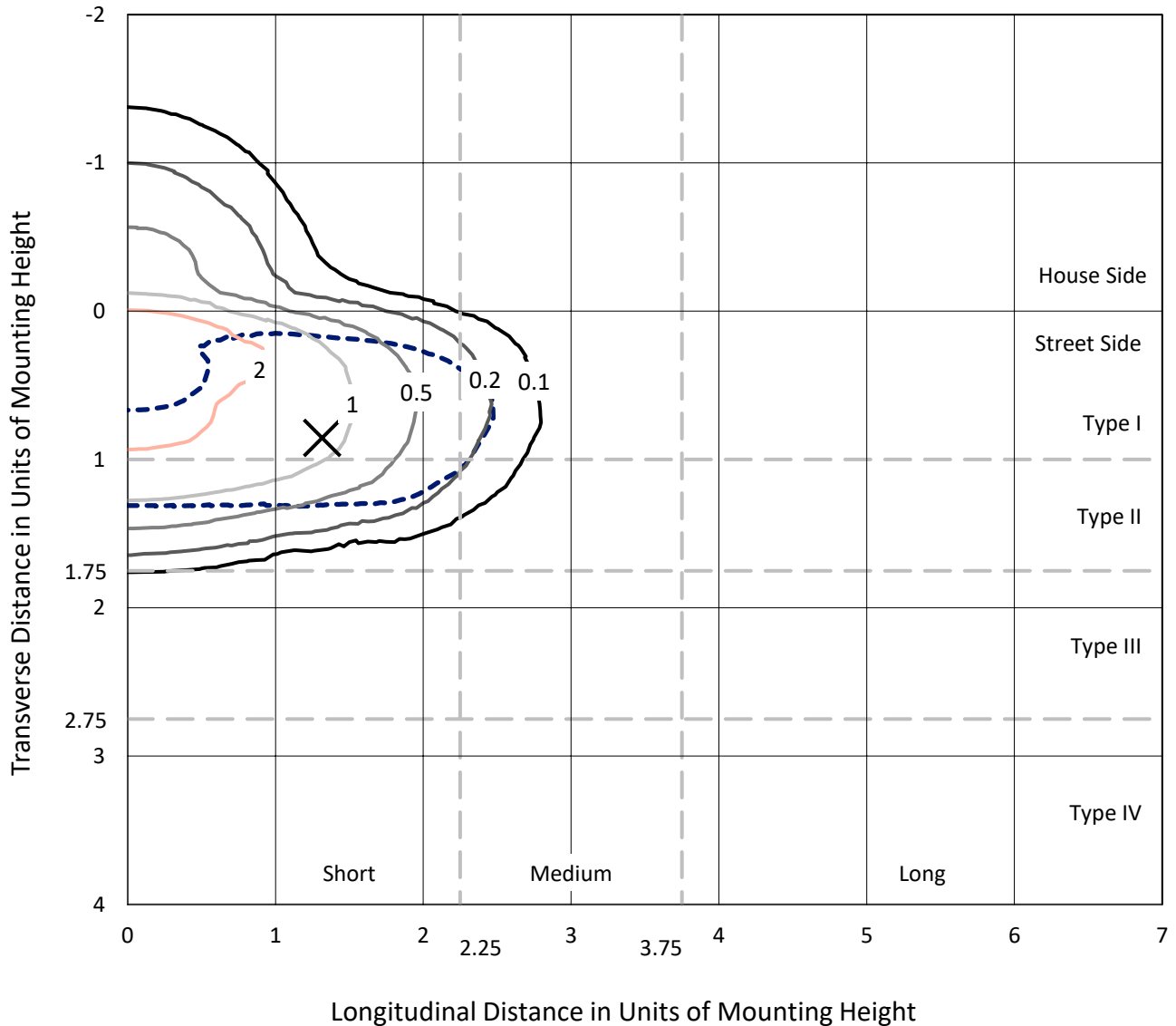
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

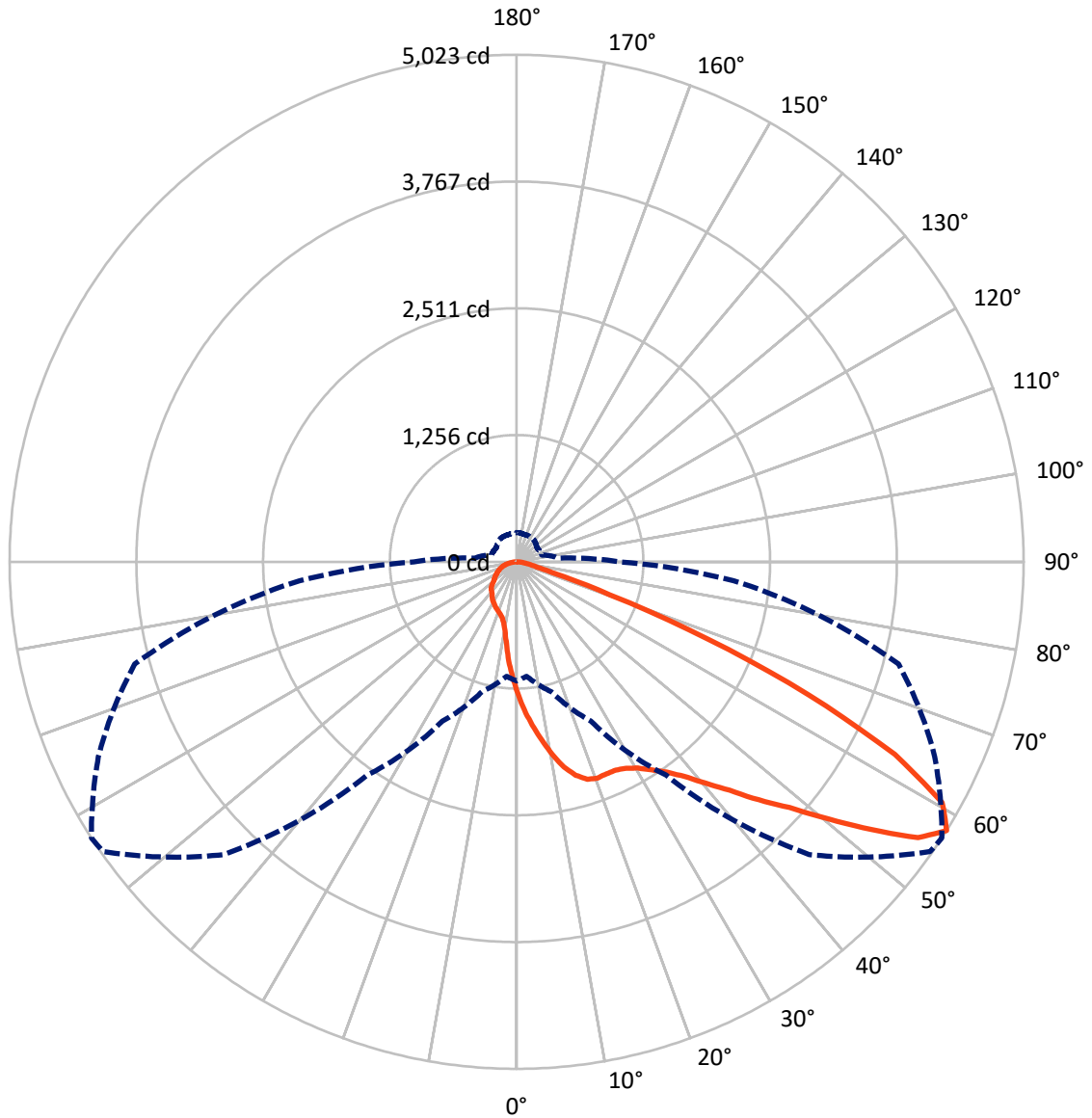
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P649190  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: GLAN-SA1D-835-U-AFL

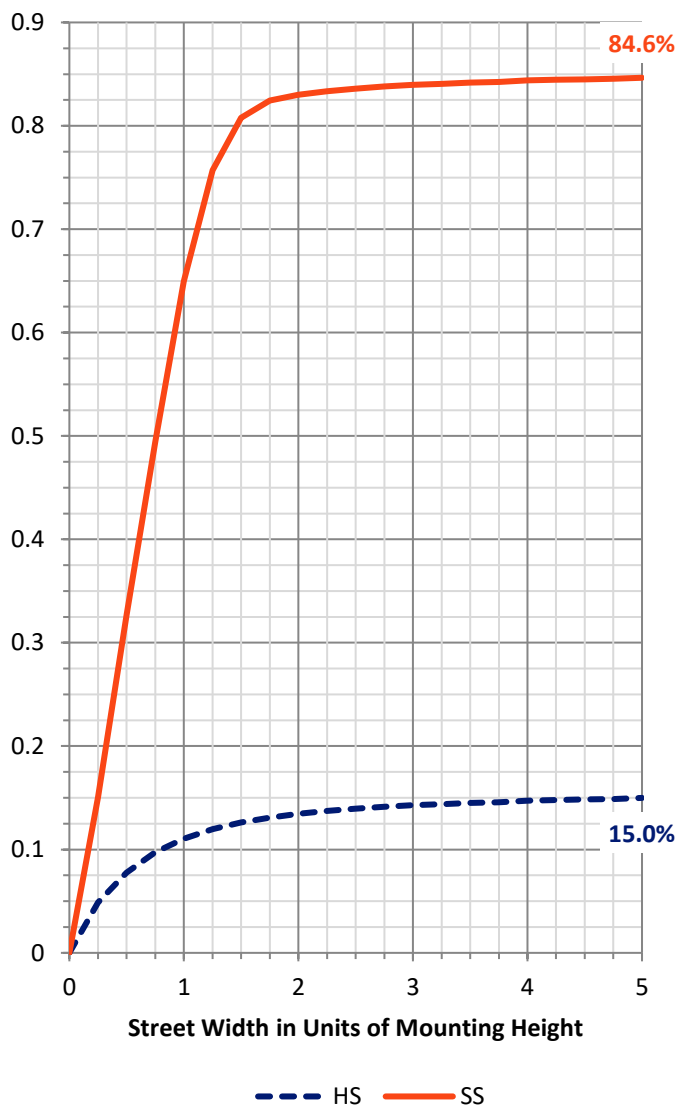
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	941.1	0.0	941.1
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	5247.7	0.0	5247.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	6188.8	0.0	6188.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	2.0
10°-20°	368.3	6.0
20°-30°	611.5	9.9
30°-40°	921.1	14.9
40°-50°	1383.0	22.3
50°-60°	1550.1	25.0
60°-70°	907.2	14.7
70°-80°	268.4	4.3
80°-90°	54.2	0.9
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°	6188.8	100.0
0°-180°	6188.8	100.0

**Coefficient of Utilization**



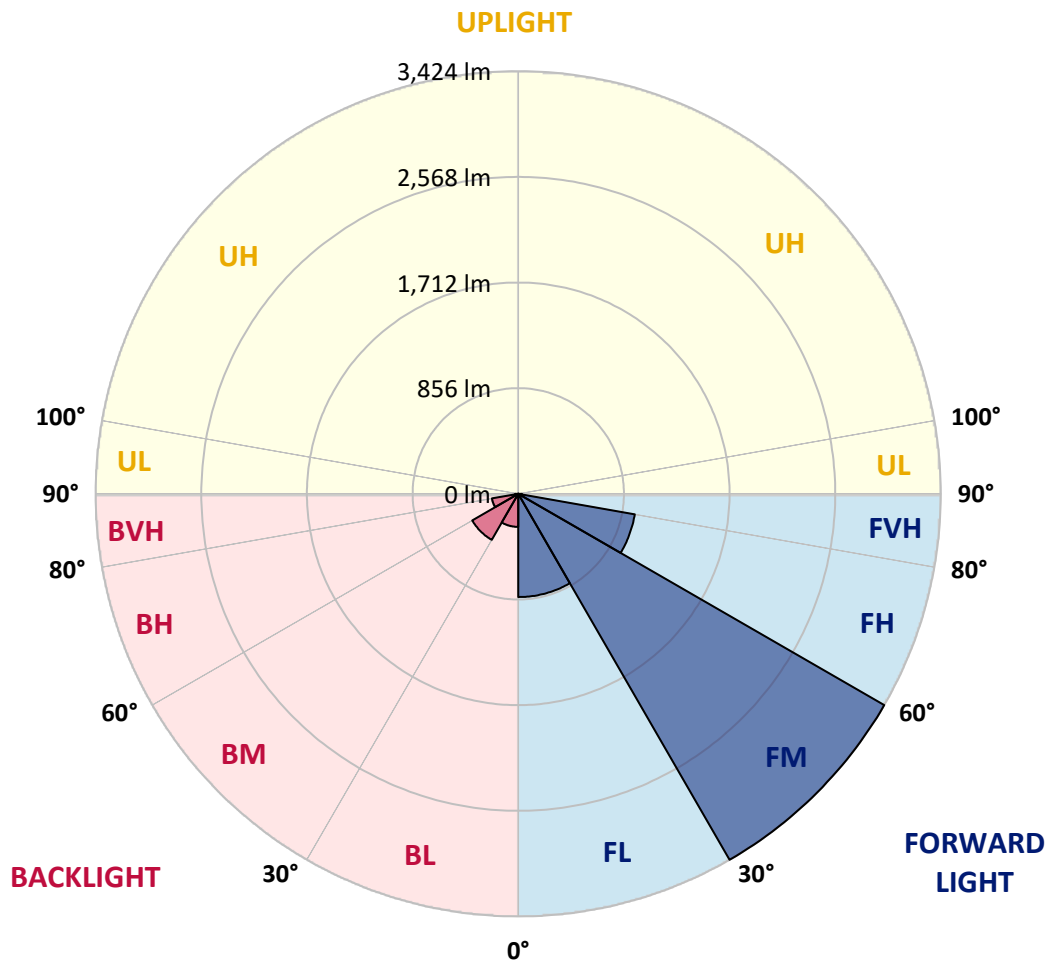
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 CATALOG NUMBER: GLAN-SA1D-835-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.6	13.5			
FM (30°-60°)	3423.9	55.3			
FH (60°-80°)	959.0	15.5			G1/1800
FVH (80°-90°)	28.1	0.5			G1/100
BL (0°-30°)	268.2	4.3	B1/500		
BM (30°-60°)	430.3	7.0	B1/1000		
BH (60°-80°)	216.6	3.5	B1/500		G1/500
BVH (80°-90°)	26.1	0.4			G1/100
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°	57°	65°	75°	85°
0°	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2
2.5°	1615.6	1597.9	1584.1	1571.9	1556.0	1512.9	1469.9	1469.2	1435.0	1382.2	1328.0
5°	1878.8	1855.1	1858.1	1820.2	1782.3	1719.9	1628.8	1624.1	1551.2	1452.3	1351.7
7.5°	2050.2	2050.6	2041.1	2019.4	1978.4	1907.6	1804.3	1780.9	1679.6	1529.5	1378.8
10°	2041.4	2050.6	2066.5	2085.1	2097.7	2062.8	1968.6	1940.1	1808.3	1623.1	1408.9
12.5°	1924.2	1938.5	1961.2	2007.9	2083.4	2141.0	2108.9	2085.8	1957.4	1716.2	1442.1
15°	1851.0	1859.5	1872.1	1903.6	1984.8	2122.7	2206.1	2193.9	2098.0	1821.6	1479.4
17.5°	1828.7	1837.2	1841.2	1860.6	1918.4	2059.8	2244.4	2266.0	2222.7	1918.4	1517.0
20°	1851.0	1855.1	1855.1	1866.6	1912.0	2022.8	2242.7	2286.4	2325.0	2034.6	1552.2
22.5°	1909.7	1911.4	1909.0	1913.0	1946.9	2033.0	2226.8	2281.0	2407.6	2133.2	1579.7
25°	2004.9	2007.5	1992.0	1982.5	2007.2	2077.7	2235.5	2285.3	2472.3	2227.4	1597.9
27.5°	2112.9	2116.3	2097.3	2075.3	2086.9	2132.9	2270.1	2314.8	2520.8	2320.3	1609.5
30°	2245.4	2246.7	2214.9	2188.5	2181.0	2215.2	2329.0	2370.7	2581.1	2429.6	1626.8
32.5°	2380.9	2391.0	2350.0	2312.8	2300.2	2310.8	2416.1	2456.4	2652.9	2547.3	1654.6
35°	2565.2	2566.8	2517.7	2472.3	2431.1	2444.6	2527.6	2556.7	2752.2	2683.0	1693.9
37.5°	2795.2	2810.8	2743.0	2658.4	2607.5	2587.9	2662.4	2694.2	2891.4	2849.7	1753.1
40°	3050.6	3056.4	2998.5	2945.6	2852.8	2795.9	2847.4	2881.9	3063.2	3048.6	1821.9
42.5°	3211.2	3223.8	3228.2	3222.7	3152.9	3057.4	3077.0	3093.3	3266.4	3235.3	1892.4
45°	3265.4	3284.1	3347.1	3480.5	3488.0	3393.8	3348.1	3363.7	3488.0	3423.6	1959.8
47.5°	3175.6	3207.5	3323.7	3597.4	3802.3	3809.5	3671.6	3637.3	3689.9	3579.8	2008.6
50°	2943.6	2950.3	3128.2	3524.6	3949.8	4206.8	4064.2	4000.6	3881.6	3695.3	2042.1
52.5°	2584.4	2592.3	2741.4	3186.1	3858.9	4484.6	4523.6	4409.8	4076.5	3785.1	2064.1
55°	1918.4	1963.5	2127.5	2557.4	3428.7	4458.6	4888.8	4824.1	4311.9	3856.2	2098.7
57.5°	1179.6	1138.2	1332.7	1739.9	2578.7	4100.2	5001.6	5022.6	4571.0	3915.9	2156.6
60°	542.7	550.8	631.1	897.4	1571.9	3207.5	4710.9	4843.7	4714.4	3913.8	2171.2
62.5°	374.0	366.5	346.2	394.0	716.8	2028.6	3979.2	4204.2	4427.1	3792.2	2113.2
65°	334.3	326.9	287.6	274.4	329.3	884.2	2892.8	3176.6	3727.5	3485.3	1968.9
67.5°	312.3	302.2	261.5	235.8	235.1	352.0	1705.7	2047.5	2764.7	2946.7	1706.1
70°	289.3	281.2	240.9	212.4	200.2	221.2	749.7	981.4	1795.2	2123.4	1329.0
72.5°	266.3	256.8	220.6	190.0	174.1	165.7	287.3	373.6	1014.3	1273.1	814.7
75°	232.7	228.0	197.2	172.1	154.8	133.8	182.3	208.0	485.1	584.7	408.9
77.5°	203.6	198.5	175.2	150.4	137.9	108.8	129.4	141.3	204.6	237.2	184.6
80°	149.1	154.2	147.7	132.8	123.0	85.3	87.1	96.9	121.6	134.5	112.8
82.5°	94.5	104.0	113.8	102.3	93.2	67.4	60.3	64.0	83.0	88.1	50.1
85°	39.6	40.3	66.1	62.3	53.2	40.0	36.3	38.3	44.4	46.4	23.4
87.5°	15.3	14.9	23.4	21.7	16.6	11.5	11.5	12.8	17.6	16.3	7.4
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°	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2	1300.2
2.5°	1304.6	1280.5	1232.8	1173.5	1130.1	1081.3	1038.3	1007.5	996.0	990.6	980.4
5°	1303.6	1256.2	1157.3	1053.6	970.2	884.9	812.7	765.9	761.9	730.7	727.6
7.5°	1303.9	1231.4	1073.9	921.4	794.4	707.0	647.4	631.8	613.2	608.5	610.8
10°	1304.9	1199.9	984.5	790.7	667.7	610.4	588.1	582.0	582.7	584.7	585.1
12.5°	1306.3	1169.4	891.7	691.5	596.6	572.8	570.5	575.9	581.7	586.1	587.1
15°	1308.0	1134.6	801.2	611.4	561.0	559.0	566.7	575.9	584.0	590.5	591.5
17.5°	1306.0	1093.9	725.3	562.4	541.4	551.2	564.1	575.6	583.0	589.1	589.8
20°	1301.2	1048.5	652.2	527.8	529.2	545.0	559.0	569.8	577.9	581.0	583.3
22.5°	1282.9	994.3	588.4	501.0	514.6	536.6	553.2	559.7	550.5	544.0	545.8
25°	1251.8	923.9	529.2	479.4	501.4	524.8	541.7	526.1	518.7	515.9	517.3
27.5°	1212.8	846.6	484.4	456.6	484.4	511.5	506.8	504.1	500.7	496.3	497.3
30°	1170.8	771.0	446.5	439.0	466.1	481.7	483.7	488.2	484.4	477.6	480.4
32.5°	1131.8	699.9	417.7	424.2	453.3	450.9	466.1	471.2	454.0	431.3	432.3
35°	1098.6	633.8	396.0	409.6	431.3	432.3	447.5	429.9	411.2	400.4	401.1
37.5°	1073.6	582.3	381.8	397.1	403.2	416.0	407.9	398.7	396.4	388.9	389.2
40°	1058.7	537.3	372.6	387.2	386.2	395.0	368.9	378.0	381.5	379.1	379.4
42.5°	1043.7	505.4	363.2	373.6	373.3	356.0	350.3	358.1	366.9	367.9	367.2
45°	1031.9	480.7	353.4	353.0	359.8	332.7	331.0	335.8	348.3	354.4	354.0
47.5°	1018.7	460.0	338.4	328.9	331.0	318.1	315.4	317.4	332.7	342.5	345.2
50°	1002.1	439.4	319.8	306.9	298.5	304.6	305.2	305.6	320.8	332.0	334.3
52.5°	988.9	423.8	298.5	289.0	278.8	292.4	297.5	298.1	307.2	316.4	318.1
55°	996.7	415.0	277.4	270.7	261.5	279.8	289.6	291.0	293.0	299.8	300.8
57.5°	1020.0	417.0	260.5	251.7	244.9	264.9	281.5	282.5	281.2	289.3	290.6
60°	1027.1	416.0	248.0	230.7	226.6	249.0	269.7	271.7	271.4	283.2	285.6
62.5°	997.3	403.2	235.4	213.1	210.4	232.7	253.1	261.2	262.9	279.8	282.9
65°	927.2	376.7	218.8	194.4	194.4	215.5	237.2	248.3	253.1	275.8	279.1
67.5°	834.8	345.5	201.9	178.5	177.8	198.9	220.2	231.7	239.2	270.0	272.0
70°	692.8	303.6	180.9	161.2	161.2	180.2	199.5	213.4	224.3	259.2	259.2
72.5°	474.7	252.4	155.5	141.6	142.0	159.6	179.2	194.8	207.7	237.5	238.2
75°	300.1	197.2	127.7	120.6	122.0	138.6	158.9	175.2	200.9	234.7	235.8
77.5°	159.6	138.6	101.6	99.9	101.6	116.9	139.6	161.9	201.5	203.6	200.2
80°	103.4	98.3	80.3	76.9	77.6	94.2	124.3	153.8	161.9	164.0	156.5
82.5°	56.2	62.3	56.9	53.6	53.6	73.5	106.0	122.3	116.2	96.5	92.2
85°	24.0	29.1	29.4	25.8	24.7	45.4	71.2	66.7	62.0	59.3	58.6
87.5°	6.8	9.5	9.5	7.1	5.4	12.5	14.3	4.1	0.0	0.3	0.7
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)