

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: McGRAW-EDISON

Report Number: P527801

Luminaire Tested: **GALN-SA2D-750-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-750-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9290 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

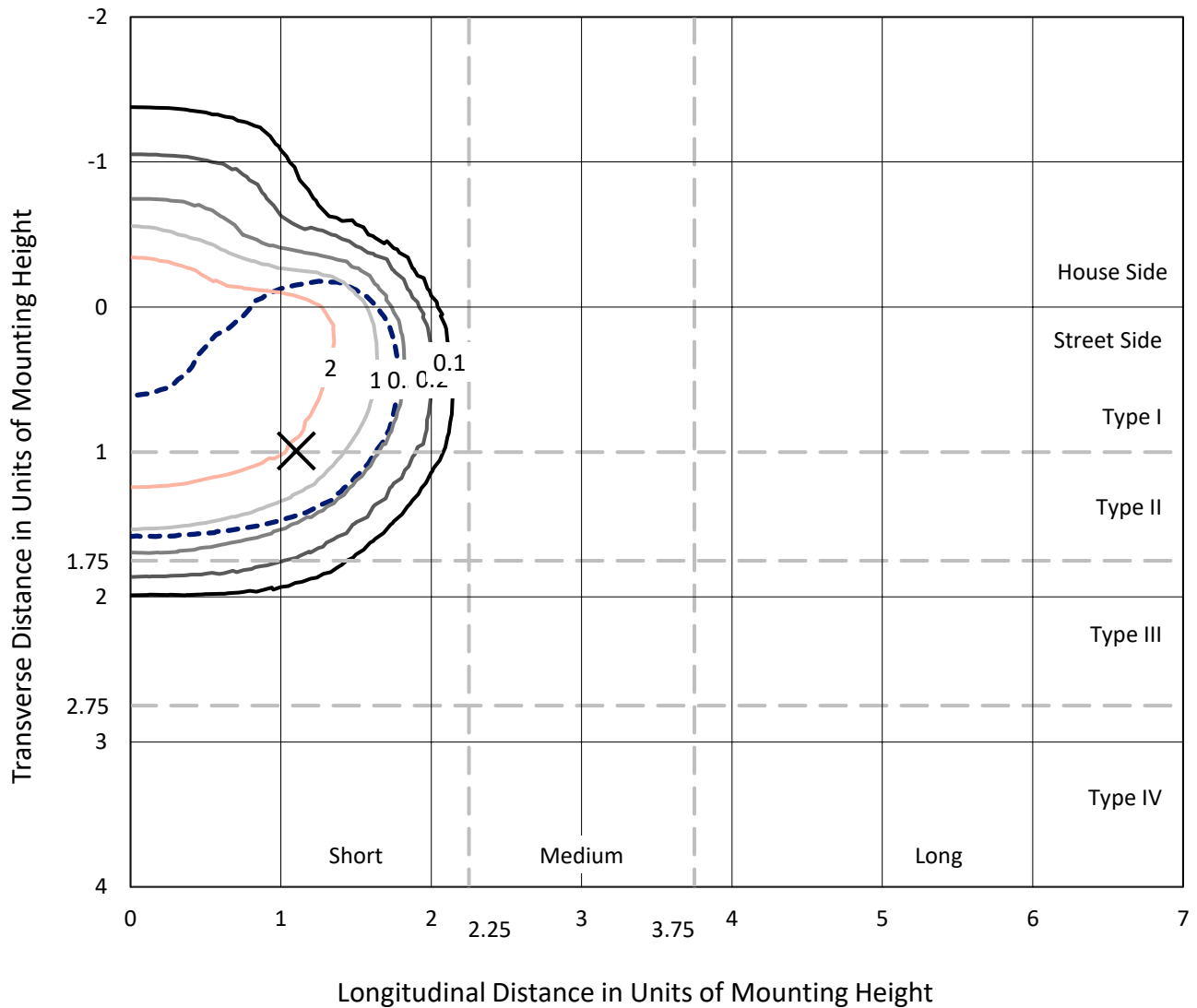
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

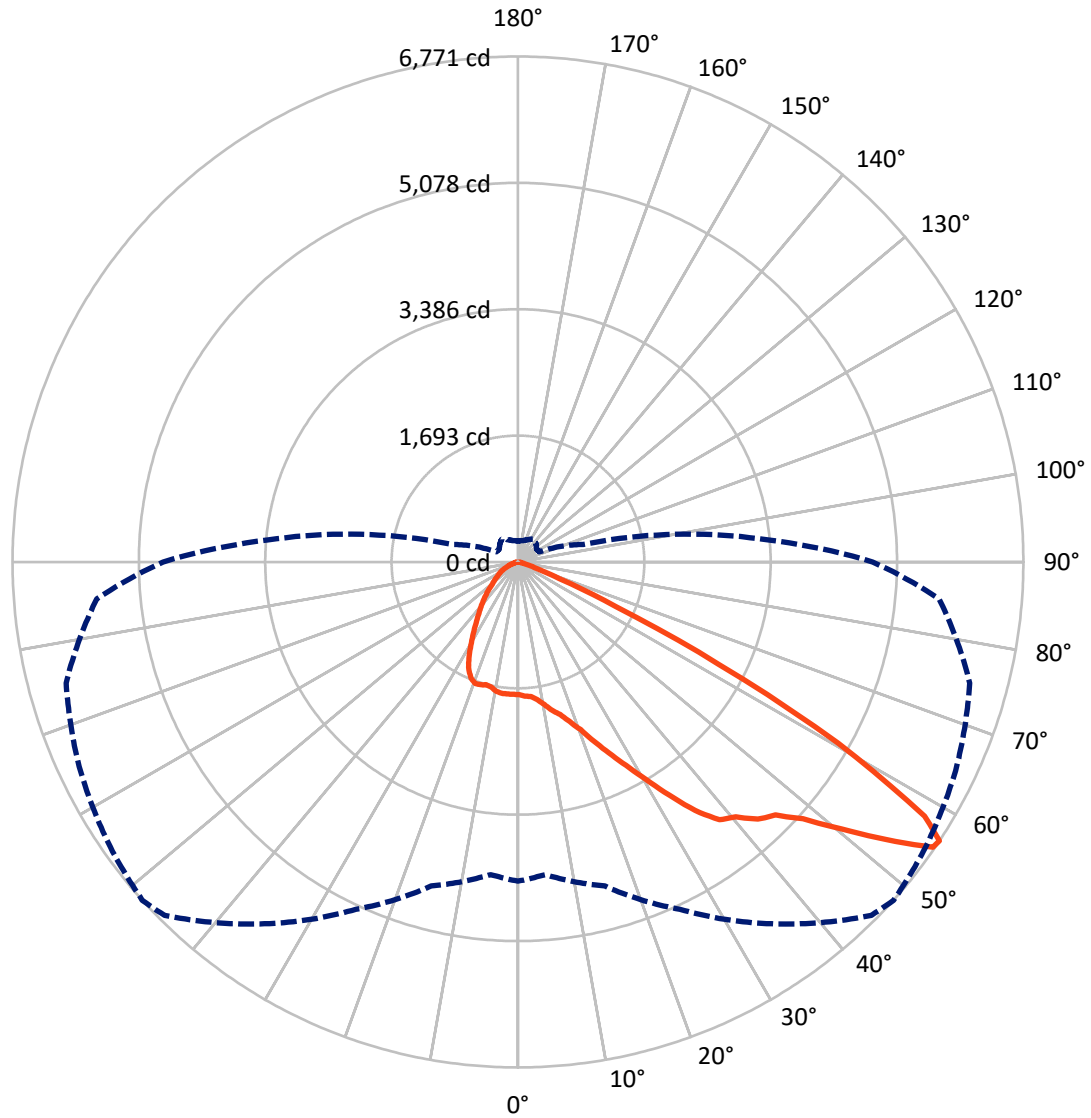
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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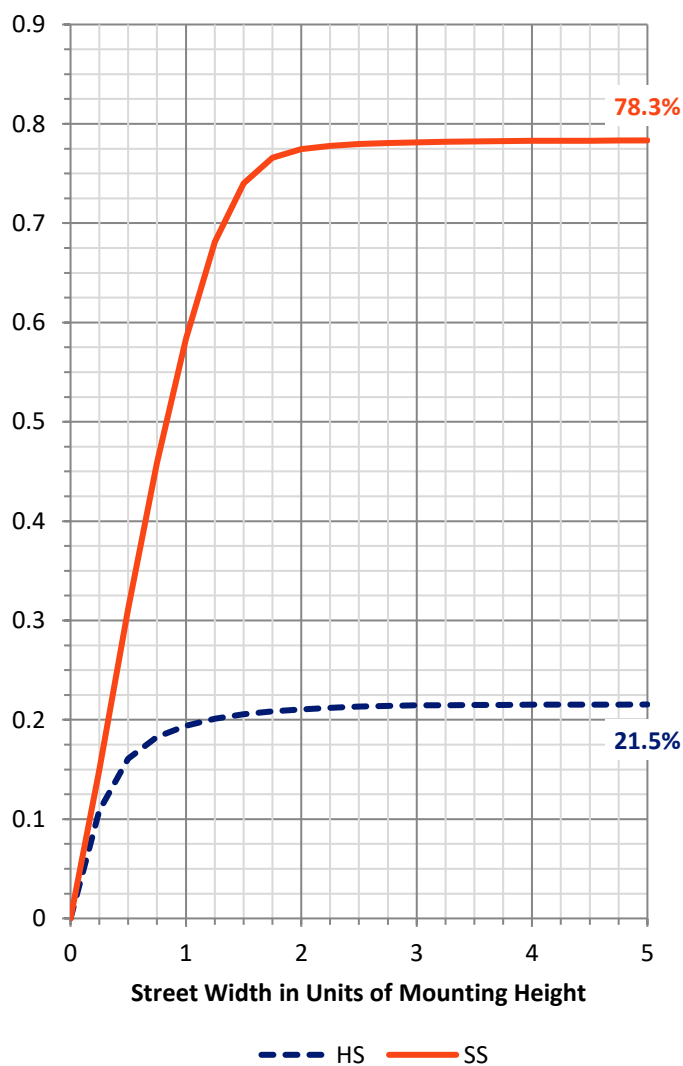
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2020.4	0.0	2020.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7269.6	0.0	7269.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	9290.0	0.0	9290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.9
10°-20°	552.4	5.9
20°-30°	1001.9	10.8
30°-40°	1573.8	16.9
40°-50°	2295.9	24.7
50°-60°	2766.1	29.8
60°-70°	809.9	8.7
70°-80°	102.7	1.1
80°-90°	14.4	0.2
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°	9290.0	100.0
0°-180°	9290.0	100.0

Coefficient of Utilization



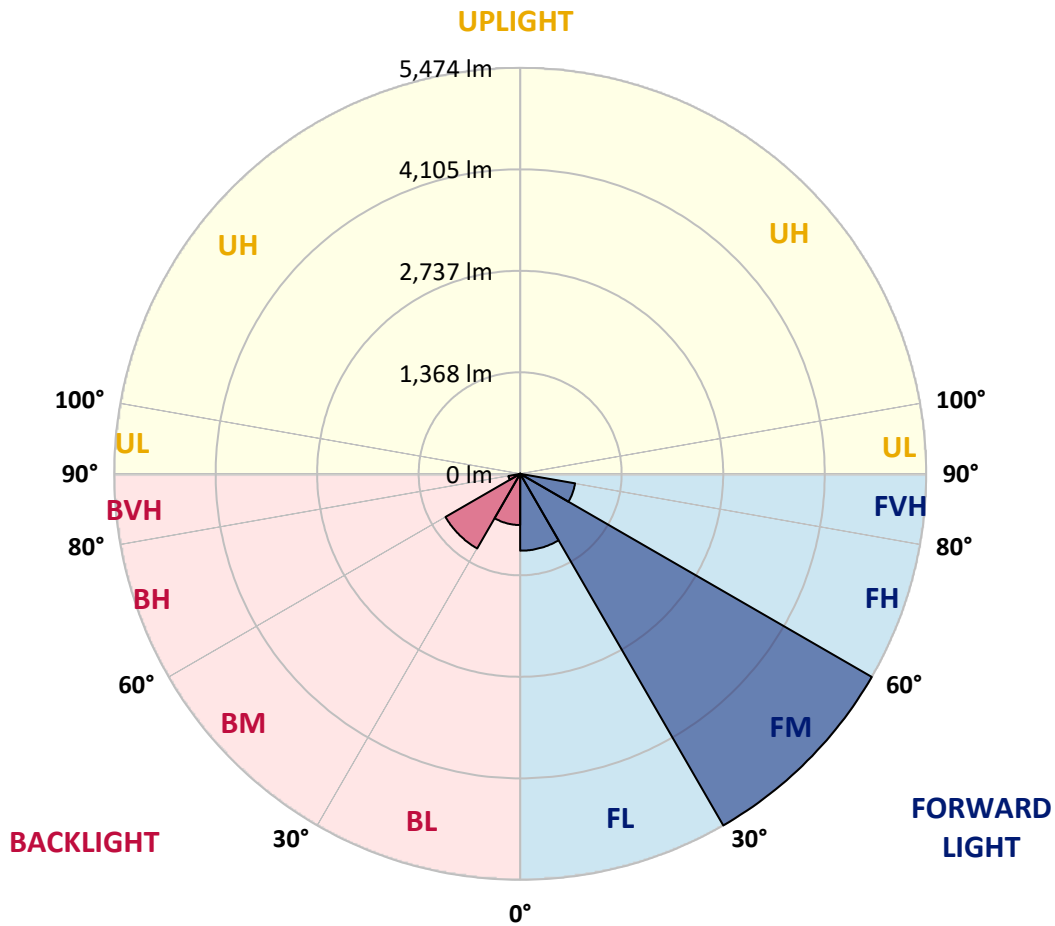
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.6	11.2			
FM (30°-60°)	5473.7	58.9			
FH (60°-80°)	752.1	8.1			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	690.6	7.4	B2/1000		
BM (30°-60°)	1162.1	12.5	B2/2500		
BH (60°-80°)	160.5	1.7	B1/500		G1/500
BVH (80°-90°)	7.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1806.5	1798.1	1798.1	1784.5	1799.8	1793.0	1798.1	1781.2	1798.1	1772.7	1793.0
5°	1815.0	1816.7	1809.9	1818.4	1818.4	1828.5	1811.6	1826.8	1835.3	1816.7	1808.2
7.5°	1859.0	1862.4	1860.7	1853.9	1867.4	1865.7	1864.0	1852.2	1855.6	1848.8	1838.7
10°	1945.2	1943.5	1952.0	1935.1	1924.9	1936.8	1940.2	1921.6	1908.0	1902.9	1870.8
12.5°	2070.4	2050.1	2038.3	2021.4	2026.4	2009.5	2040.0	2007.8	2001.1	1970.6	1938.5
15°	2171.9	2168.5	2170.2	2143.1	2112.7	2119.5	2119.5	2102.5	2092.4	2055.2	2009.5
17.5°	2380.0	2308.9	2324.1	2290.3	2264.9	2263.2	2248.0	2251.4	2224.3	2146.5	2077.2
20°	2542.3	2511.9	2488.2	2430.7	2391.8	2403.6	2396.9	2380.0	2371.5	2270.0	2171.9
22.5°	2687.8	2698.0	2659.1	2643.8	2589.7	2594.8	2608.3	2593.1	2528.8	2423.9	2278.5
25°	2892.5	2880.6	2828.2	2809.6	2758.9	2777.5	2829.9	2818.1	2777.5	2588.0	2361.3
27.5°	3134.4	3093.8	3103.9	3019.3	2970.3	3022.7	3085.3	3144.5	3029.5	2780.8	2459.5
30°	3305.2	3262.9	3259.5	3256.2	3244.3	3305.2	3377.9	3432.1	3339.0	2973.7	2621.8
32.5°	3389.8	3399.9	3428.7	3418.5	3521.7	3646.9	3723.0	3800.8	3684.1	3288.3	2836.7
35°	3614.8	3550.5	3614.8	3621.5	3728.1	3993.7	4090.1	4276.1	4247.4	3733.2	3098.8
37.5°	3746.7	3741.6	3750.1	3814.4	3917.5	4245.7	4382.7	4526.5	4472.4	4000.4	3425.3
40°	3964.9	3978.4	3976.7	4025.8	4139.1	4435.1	4491.0	4607.7	4612.7	4370.9	3905.7
42.5°	4315.0	4260.9	4225.4	4276.1	4435.1	4599.2	4710.9	4687.2	4854.6	4820.8	4523.1
45°	4629.7	4661.8	4609.4	4693.9	4751.5	4839.4	4836.0	4886.8	5099.9	5260.6	4988.3
47.5°	4924.0	4944.3	4969.7	5027.2	5152.3	5165.9	5137.1	5115.1	5409.4	5575.2	5348.6
50°	5099.9	5118.5	5236.9	5340.1	5573.5	5604.0	5620.9	5565.1	5764.7	5783.3	5688.5
52.5°	5052.5	5072.8	5238.6	5578.6	5950.7	6229.8	6179.1	6084.4	6072.5	6145.3	6003.2
55°	4633.0	4614.4	4842.8	5372.2	6069.1	6739.0	6745.7	6645.9	6454.8	6405.7	5955.8
56°	4276.1	4203.4	4494.3	5133.7	5916.9	6695.0	6771.1	6664.5	6485.2	6265.4	5663.2
57.5°	3503.1	3572.5	3861.7	4391.2	5390.8	6378.7	6422.7	6397.3	6262.0	5893.2	4983.2
60°	1931.7	2053.5	2308.9	2956.8	3838.0	4895.2	4930.8	5137.1	5162.5	4512.9	3428.7
62.5°	820.4	806.9	1072.4	1549.4	2185.4	2955.1	3021.0	3232.5	3271.4	2601.5	1720.3
65°	333.2	351.8	485.5	779.8	1155.3	1346.4	1439.5	1508.8	1637.4	1074.1	634.3
67.5°	219.9	218.2	285.9	444.9	622.5	600.5	600.5	634.3	587.0	438.1	274.0
70°	157.3	162.4	204.7	307.9	387.4	287.6	275.7	263.9	299.4	289.2	221.6
72.5°	103.2	109.9	137.0	184.4	201.3	157.3	157.3	189.4	247.0	233.4	181.0
75°	67.7	69.4	84.6	106.6	99.8	81.2	89.7	126.9	179.3	172.5	128.6
77.5°	45.7	47.4	57.5	69.4	55.8	45.7	49.1	64.3	88.0	88.0	67.7
80°	16.9	18.6	23.7	22.0	25.4	32.1	35.5	44.0	52.4	52.4	45.7
82.5°	0.0	1.7	5.1	11.8	18.6	25.4	28.8	33.8	38.9	44.0	42.3
85°	0.0	1.7	5.1	8.5	13.5	15.2	16.9	11.8	10.1	10.1	8.5
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4	1.7	1.7
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°	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1774.4	1772.7	1772.7	1767.6	1777.8	1772.7	1776.1	1774.4	1752.4	1769.3	1757.5
5°	1793.0	1804.8	1786.2	1782.9	1769.3	1774.4	1774.4	1757.5	1772.7	1771.0	1767.6
7.5°	1840.4	1820.1	1799.8	1779.5	1776.1	1771.0	1752.4	1745.6	1757.5	1743.9	1764.2
10°	1860.7	1864.0	1833.6	1806.5	1781.2	1745.6	1720.3	1705.0	1686.4	1706.7	1718.6
12.5°	1953.7	1919.9	1867.4	1825.1	1738.9	1703.4	1678.0	1671.2	1703.4	1710.1	1698.3
15°	1985.8	1980.8	1913.1	1818.4	1728.7	1686.4	1691.5	1678.0	1681.4	1664.4	1667.8
17.5°	2051.8	1994.3	1914.8	1796.4	1727.0	1716.9	1686.4	1632.3	1601.9	1588.3	1600.2
20°	2124.5	2068.7	1953.7	1804.8	1742.3	1715.2	1615.4	1549.4	1486.8	1453.0	1454.7
22.5°	2188.8	2119.5	1936.8	1808.2	1755.8	1644.1	1524.1	1393.8	1316.0	1263.6	1265.2
25°	2266.6	2168.5	1943.5	1815.0	1720.3	1530.8	1358.3	1231.4	1138.4	1102.9	1114.7
27.5°	2310.6	2199.0	1980.8	1830.2	1627.2	1370.1	1184.1	1065.7	1011.5	994.6	992.9
30°	2442.5	2266.6	2026.4	1799.8	1471.6	1197.6	1025.1	952.3	899.9	884.7	888.0
32.5°	2638.8	2390.1	2085.6	1720.3	1312.6	1043.7	921.9	867.7	818.7	789.9	786.6
35°	2802.8	2601.5	2148.2	1596.8	1128.2	925.3	849.1	781.5	707.1	674.9	666.5
37.5°	3115.8	2840.0	2134.7	1410.7	952.3	837.3	771.3	688.4	624.2	580.2	575.1
40°	3531.9	3119.1	2068.7	1184.1	822.1	759.5	688.4	608.9	529.4	492.2	488.8
42.5°	4037.6	3460.8	1948.6	954.0	691.8	681.7	617.4	526.1	455.0	428.0	429.6
45°	4448.7	3753.5	1826.8	766.3	595.4	605.6	549.7	463.5	414.4	392.4	392.4
47.5°	4814.0	3951.4	1694.9	632.6	505.8	529.4	480.4	429.6	387.4	370.4	367.1
50°	5165.9	4152.7	1563.0	512.5	431.3	455.0	449.9	409.3	375.5	355.2	356.9
52.5°	5385.8	4184.8	1395.5	419.5	377.2	404.3	421.2	384.0	346.8	334.9	331.5
55°	5116.8	3770.4	1082.6	345.1	319.7	355.2	387.4	345.1	316.3	296.0	294.3
56°	4754.8	3371.2	905.0	318.0	302.8	341.7	375.5	329.8	297.7	285.9	277.4
57.5°	4025.8	2758.9	668.1	282.5	280.8	318.0	356.9	314.6	277.4	267.3	267.3
60°	2510.2	1552.8	404.3	236.8	243.6	282.5	321.4	280.8	247.0	247.0	252.0
62.5°	1143.5	646.2	245.3	201.3	209.7	243.6	285.9	253.7	235.1	253.7	257.1
65°	389.0	279.1	177.6	160.7	165.8	201.3	245.3	257.1	255.4	267.3	274.0
67.5°	218.2	179.3	148.9	133.6	130.2	148.9	201.3	257.1	247.0	241.9	245.3
70°	184.4	152.2	131.9	118.4	113.3	120.1	155.6	194.5	174.2	169.2	165.8
72.5°	148.9	126.9	115.0	106.6	91.3	77.8	71.0	74.4	82.9	88.0	96.4
75°	104.9	96.4	96.4	86.3	66.0	49.1	38.9	32.1	22.0	15.2	16.9
77.5°	59.2	59.2	60.9	52.4	42.3	32.1	23.7	16.9	8.5	3.4	1.7
80°	40.6	44.0	47.4	42.3	35.5	28.8	20.3	11.8	5.1	0.0	0.0
82.5°	40.6	45.7	49.1	42.3	35.5	27.1	20.3	11.8	5.1	1.7	0.0
85°	8.5	10.1	11.8	13.5	20.3	20.3	15.2	10.1	5.1	1.7	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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)