

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: P458603

Luminaire Tested: **GALN-SA1D-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5974 lumens
Efficiency: N/A
Efficacy: 91.9 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

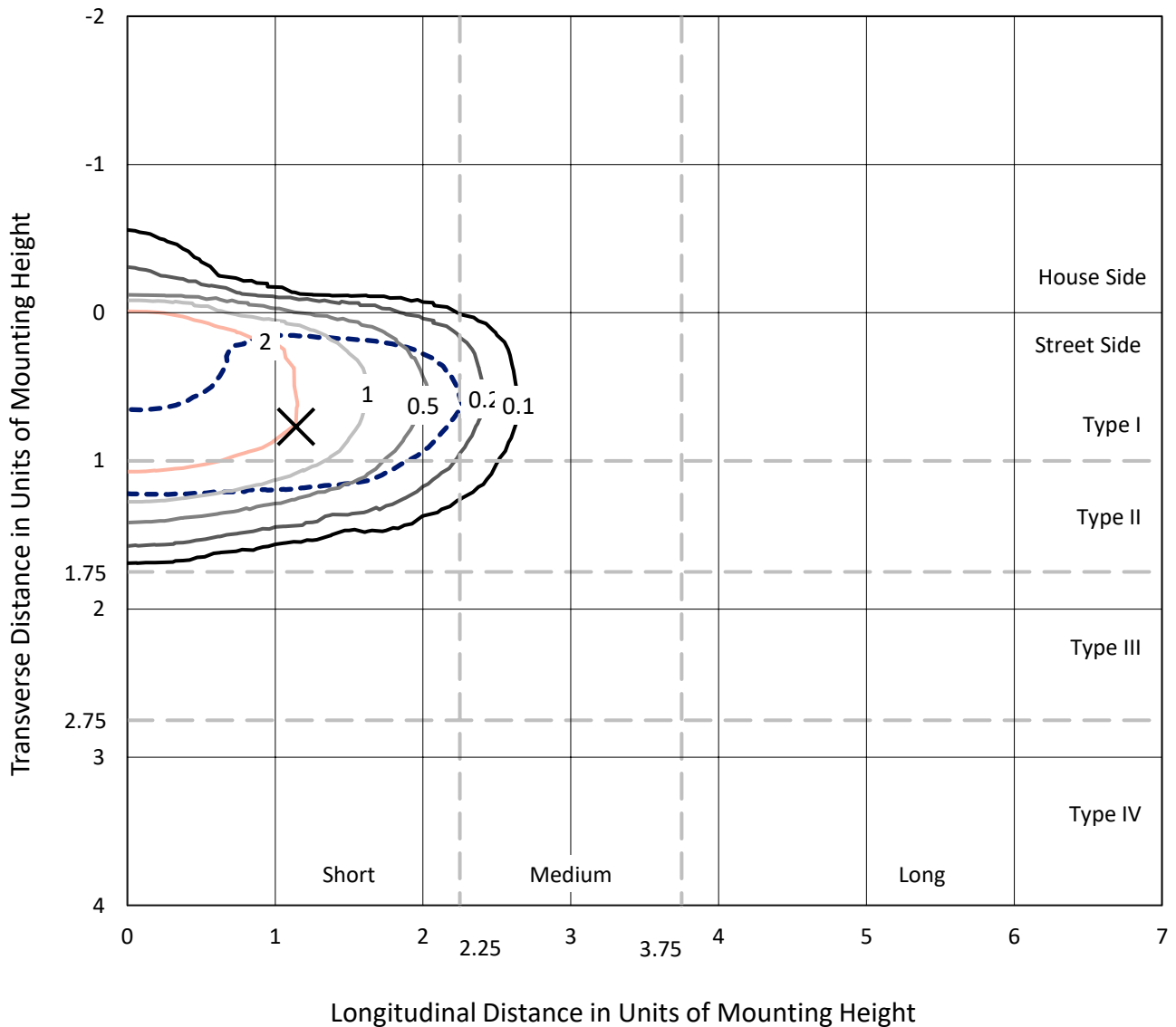
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

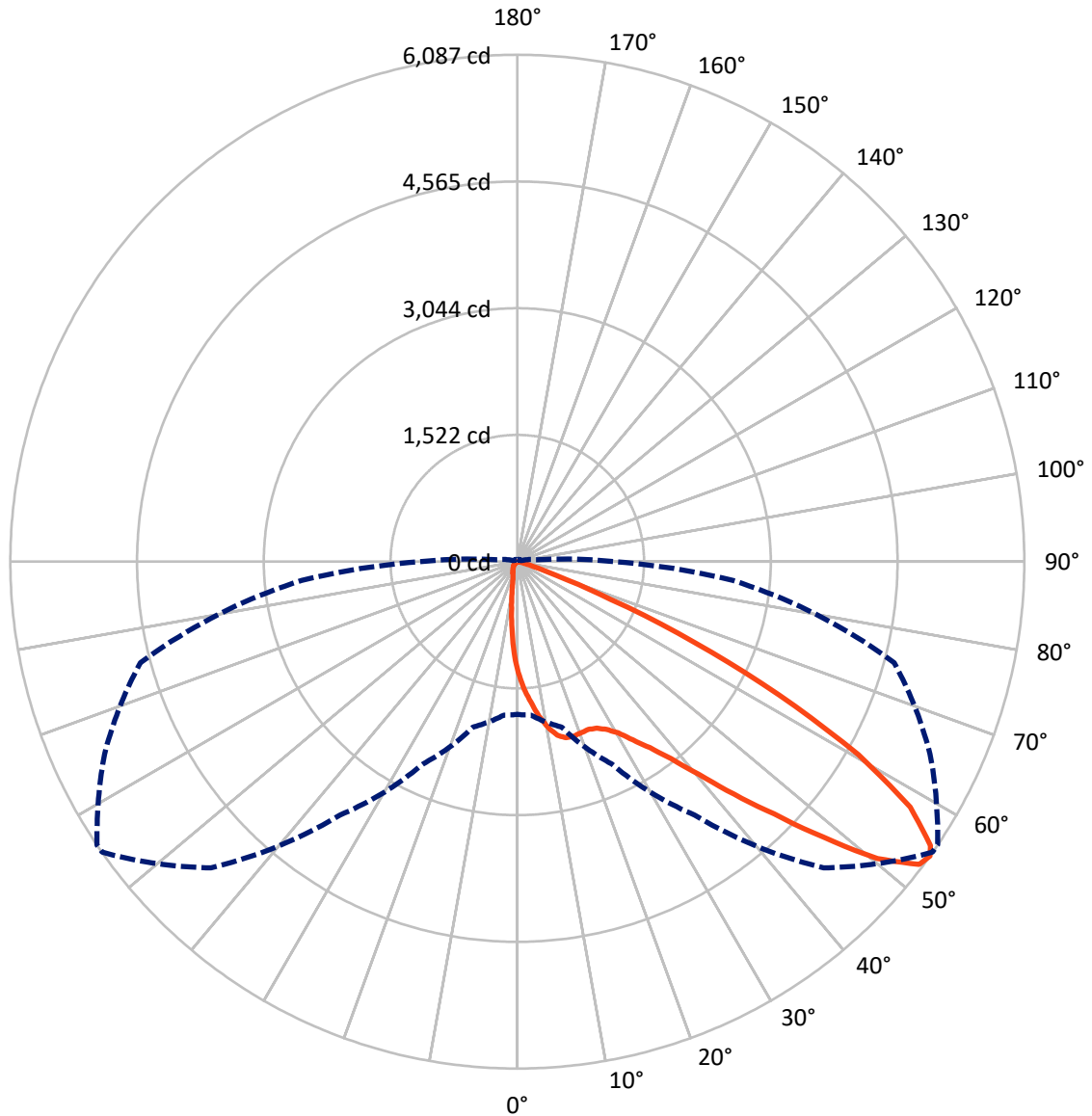
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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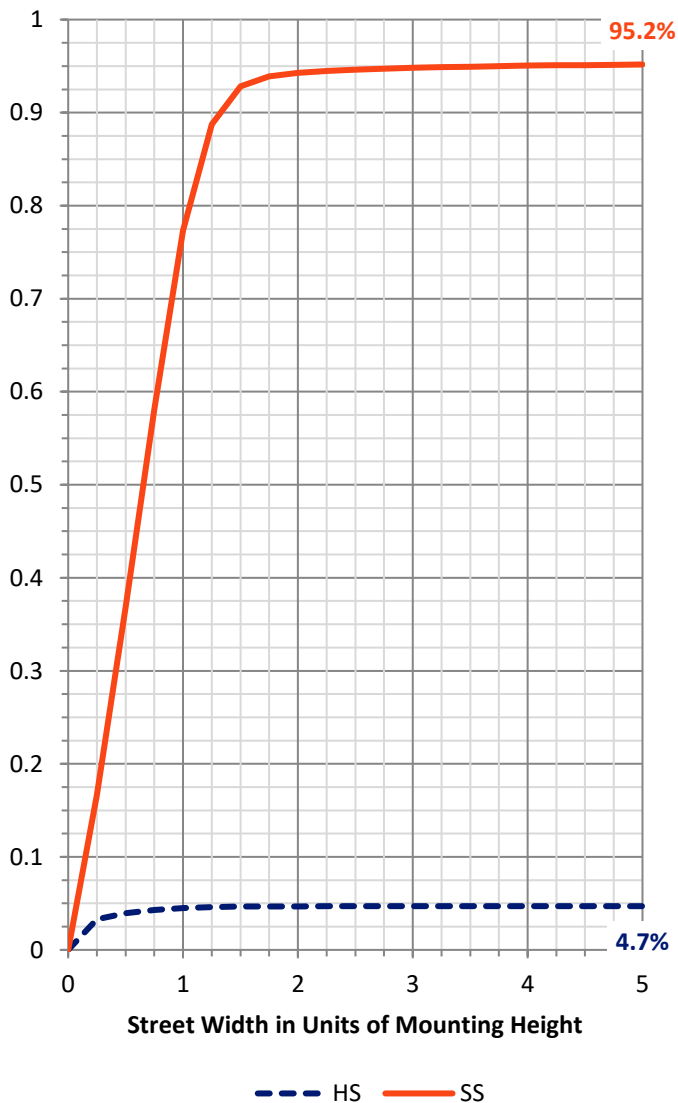
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	282.5	0.0	282.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5691.5	0.0	5691.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	5974.0	0.0	5974.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	2.0
10°-20°	317.1	5.3
20°-30°	549.1	9.2
30°-40°	947.9	15.9
40°-50°	1613.3	27.0
50°-60°	1596.6	26.7
60°-70°	728.7	12.2
70°-80°	93.6	1.6
80°-90°	10.5	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°	5974.0	100.0
0°-180°	5974.0	100.0



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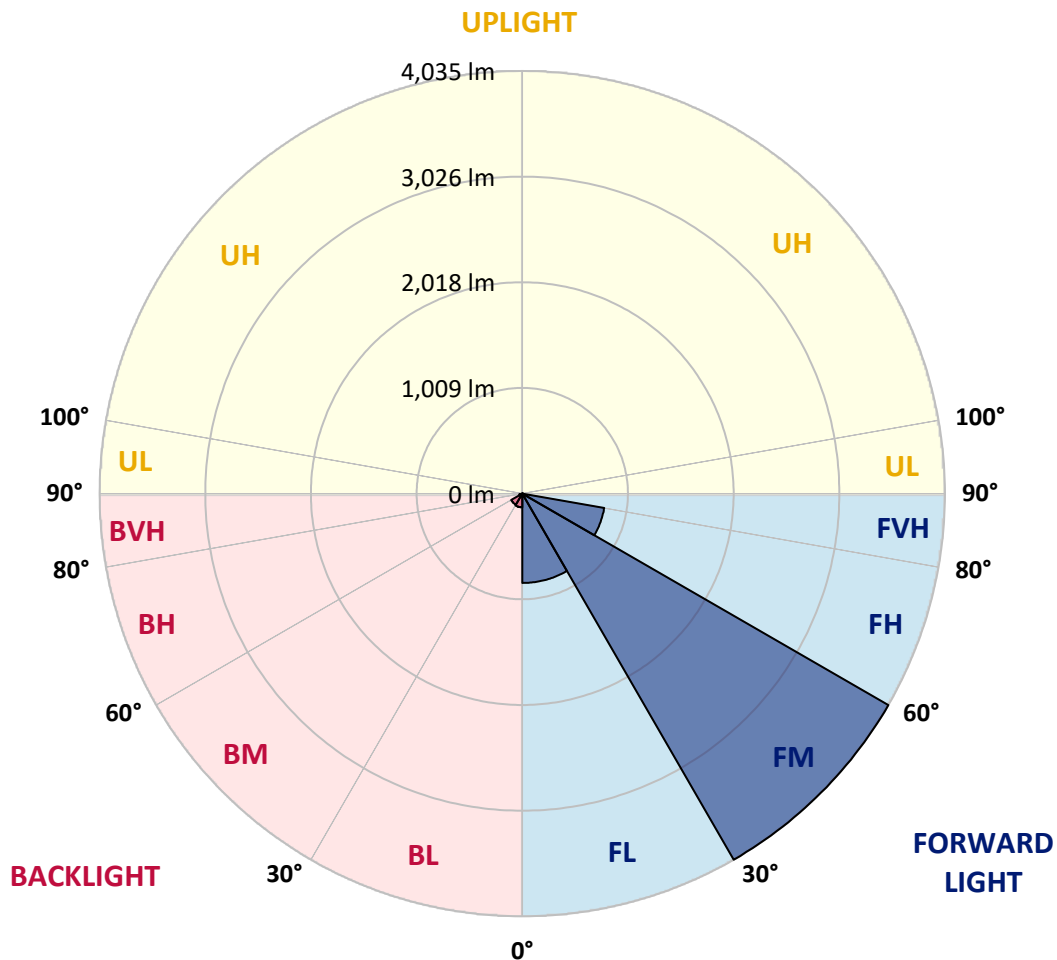
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.8	14.3			
FM (30°-60°)	4035.3	67.5			
FH (60°-80°)	794.0	13.3			G1/1800
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	130.7	2.2	B1/500		
BM (30°-60°)	122.4	2.0	B0/220		
BH (60°-80°)	28.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.1	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°	56°	65°	75°	85°
0°	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3
2.5°	1686.8	1675.1	1659.0	1646.5	1617.0	1574.7	1530.0	1530.0	1486.9	1426.8	1365.5
5°	1945.5	1937.9	1922.2	1889.9	1856.9	1797.6	1707.7	1692.0	1615.0	1506.2	1391.7
7.5°	2050.7	2054.4	2055.2	2046.7	2031.0	1972.5	1883.5	1872.6	1749.6	1603.7	1426.0
10°	1950.0	1967.7	1985.0	2020.1	2069.7	2083.8	2033.4	2022.1	1901.2	1702.5	1463.1
12.5°	1800.0	1809.7	1819.4	1874.6	1974.1	2088.2	2141.0	2140.6	2038.2	1800.8	1510.2
15°	1730.3	1738.8	1739.6	1764.2	1850.4	2016.5	2187.0	2193.0	2172.0	1922.2	1561.0
17.5°	1744.8	1751.7	1746.0	1752.1	1797.2	1937.5	2181.7	2201.9	2280.5	2038.6	1607.0
20°	1839.5	1852.8	1831.1	1814.1	1827.8	1916.5	2164.0	2192.2	2357.0	2152.3	1648.9
22.5°	2009.6	2016.9	1989.5	1943.1	1918.9	1960.4	2159.2	2187.0	2422.3	2245.4	1673.1
25°	2198.7	2196.2	2166.0	2114.0	2063.2	2049.1	2191.0	2216.0	2476.4	2329.2	1680.3
27.5°	2387.7	2394.9	2344.2	2279.7	2218.8	2182.1	2262.3	2280.9	2537.2	2424.8	1689.2
30°	2607.3	2595.7	2545.7	2471.9	2402.2	2351.0	2377.2	2382.4	2621.0	2551.3	1712.6
32.5°	2893.1	2860.9	2804.8	2675.9	2625.9	2539.2	2545.7	2552.1	2723.0	2676.7	1740.8
35°	3280.8	3279.2	3169.6	2995.9	2874.2	2766.6	2738.3	2743.6	2877.4	2862.9	1803.3
37.5°	3747.6	3754.0	3629.1	3454.2	3230.1	3059.2	3001.1	3001.9	3112.0	3120.0	1898.4
40°	4127.7	4144.6	4070.0	3951.9	3730.7	3463.4	3365.9	3357.0	3441.7	3431.6	2034.2
42.5°	4291.3	4307.0	4334.8	4375.9	4254.2	4033.7	3803.6	3815.7	3841.5	3771.0	2186.6
45°	4211.1	4236.1	4345.3	4599.2	4713.7	4639.5	4365.1	4322.7	4213.5	4139.7	2339.7
47.5°	3877.0	3937.8	4120.4	4543.2	4943.8	5194.5	4998.7	4942.6	4585.9	4409.0	2437.3
50°	3327.6	3331.2	3585.6	4126.0	4824.5	5544.8	5645.6	5603.6	4933.0	4560.1	2486.4
52.5°	2412.3	2491.7	2724.6	3350.6	4307.8	5491.6	6057.9	6040.5	5290.9	4637.5	2557.4
54°	1833.9	1849.2	2056.4	2677.5	3714.1	5199.4	6083.3	6087.3	5468.6	4684.3	2599.3
55°	1503.4	1466.7	1684.4	2280.9	3309.1	4941.0	6000.2	6019.6	5548.4	4708.5	2630.3
57.5°	712.6	713.0	879.5	1203.1	2072.5	3836.7	5492.8	5561.3	5557.3	4750.0	2725.8
60°	360.7	363.2	399.8	555.4	1023.8	2550.5	4541.6	4704.8	5129.6	4756.0	2757.3
62.5°	252.3	249.5	243.4	267.2	430.9	1296.2	3381.2	3523.1	4358.2	4525.9	2657.3
65°	216.0	210.0	193.1	189.4	217.6	516.3	2105.9	2337.3	3327.6	3918.9	2372.8
67.5°	184.6	182.2	166.9	157.6	154.0	224.9	1086.6	1208.4	2274.4	2816.9	1797.2
70°	156.8	155.6	146.3	134.6	124.5	134.6	403.1	499.4	1267.6	1516.7	848.0
72.5°	127.4	128.6	130.2	115.3	104.8	95.5	172.1	200.3	530.4	542.1	296.6
75°	111.6	110.4	110.4	100.4	87.5	70.9	94.7	102.0	162.4	150.7	68.9
77.5°	78.6	75.8	88.7	82.6	73.0	50.4	54.0	57.2	67.3	57.6	32.2
80°	54.4	54.4	56.8	74.2	65.7	36.7	33.1	35.5	39.9	34.3	18.5
82.5°	30.6	31.4	37.1	39.5	38.3	24.6	21.8	22.2	26.6	23.4	11.7
85°	3.6	6.0	21.4	21.0	15.7	10.9	12.1	12.5	16.5	14.5	6.9
87.5°	0.4	0.8	4.4	5.6	4.0	4.4	4.4	4.4	5.6	6.4	4.8
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°	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3	1327.3
2.5°	1332.5	1301.9	1228.9	1144.3	1090.3	1002.4	928.2	874.6	861.3	835.5	843.2
5°	1330.9	1267.2	1118.5	961.3	793.6	668.7	575.6	502.2	470.0	448.6	433.7
7.5°	1331.7	1232.1	993.5	743.2	542.9	420.4	334.1	289.4	259.6	247.1	248.7
10°	1334.1	1192.6	848.4	550.6	366.4	271.7	218.9	197.5	187.4	185.8	185.4
12.5°	1339.7	1149.5	709.8	408.7	256.3	197.5	177.3	170.1	166.9	166.9	165.7
15°	1345.8	1101.9	594.5	303.9	197.5	169.7	160.4	156.8	154.8	154.8	154.4
17.5°	1345.8	1047.1	486.9	235.8	170.1	156.0	148.7	143.9	142.3	142.3	141.9
20°	1337.3	983.4	391.4	189.8	154.4	143.1	135.8	130.6	128.6	127.8	127.4
22.5°	1307.9	898.4	311.6	163.2	141.5	131.8	122.5	116.5	114.9	114.1	114.5
25°	1255.5	802.5	246.7	143.5	129.8	118.1	110.0	105.6	104.0	104.0	104.4
27.5°	1201.5	702.1	195.5	128.6	115.7	105.2	98.7	95.9	95.5	96.7	97.1
30°	1151.5	601.4	158.4	116.5	103.2	94.3	89.9	89.1	89.1	89.5	89.9
32.5°	1095.9	513.1	132.6	106.0	93.1	85.4	83.0	83.0	83.8	83.8	84.6
35°	1060.8	437.3	116.5	95.9	85.4	79.0	77.4	77.8	79.0	80.6	81.4
37.5°	1041.9	376.9	106.0	87.9	78.2	73.8	72.1	73.0	75.8	78.6	79.0
40°	1043.5	331.3	97.5	81.0	72.5	67.7	66.5	68.9	71.7	74.6	75.0
42.5°	1061.2	297.5	89.5	73.0	67.7	60.9	60.5	62.9	64.1	66.9	67.3
45°	1082.2	272.9	81.0	64.5	58.8	52.8	53.2	55.2	56.8	61.3	62.1
47.5°	1088.6	255.9	71.3	54.8	48.4	46.4	46.8	48.0	51.2	55.2	55.6
50°	1095.9	245.5	62.1	46.4	41.1	40.7	41.1	41.9	43.9	45.5	45.1
52.5°	1126.9	245.1	54.4	40.3	35.1	35.9	36.3	35.9	34.3	31.8	31.0
54°	1156.0	246.3	50.8	37.5	32.2	33.5	33.1	31.0	27.0	24.6	23.4
55°	1179.3	247.5	48.8	35.5	30.6	31.0	31.4	27.4	22.2	19.7	18.9
57.5°	1225.3	244.7	43.9	31.0	27.0	25.4	25.0	18.1	12.1	10.5	9.7
60°	1202.3	220.9	39.9	26.6	23.0	20.6	16.9	10.1	6.0	4.4	4.4
62.5°	1112.0	187.4	35.5	21.8	18.9	15.7	8.9	5.6	2.8	1.6	1.2
65°	994.7	157.6	31.8	17.3	14.9	10.1	4.8	3.6	1.2	0.0	0.0
67.5°	739.6	116.9	27.0	13.7	11.3	6.4	3.2	2.0	0.4	0.0	0.0
70°	342.6	71.3	23.0	10.5	8.1	4.8	2.4	1.2	0.0	0.0	0.0
72.5°	98.3	44.7	18.9	7.7	5.6	4.0	2.0	0.8	0.4	0.0	0.0
75°	34.3	35.9	14.1	5.6	4.4	2.8	1.6	0.8	0.4	0.0	0.0
77.5°	20.6	29.0	8.9	4.8	3.6	2.4	1.6	0.8	0.4	0.4	0.0
80°	11.7	19.3	5.6	4.0	3.2	2.0	1.2	0.8	0.4	0.4	0.0
82.5°	6.4	9.3	4.4	3.6	2.8	2.0	1.2	0.8	0.4	0.4	0.4
85°	5.2	4.8	3.6	3.2	2.4	1.6	1.2	0.4	0.0	0.0	0.0
87.5°	4.0	3.2	3.2	3.2	2.4	1.6	1.2	0.4	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)